



## Product Catalog



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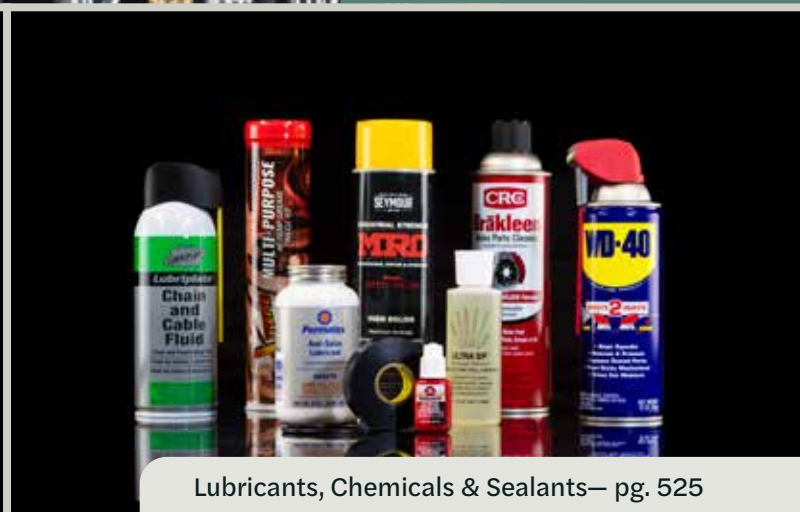
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**Dear Valued Customer,**

It is my pleasure to welcome you to our latest product catalog. Whether you've been with us for years or are exploring our offerings for the first time, we're excited to present a comprehensive selection of premium industrial supplies designed to meet the demands of your industry.

At Epco Sales, we've built our reputation on tailored service, consistent customer care, and a deep understanding of what our customers need to succeed. With more than 40 years of experience in the fastener industry, our mission remains the same: to deliver the right products, at the right time, with the highest level of customer support.

Inside this catalog, you'll find a wide range of fasteners and industrial supplies — from standard-size items to hard-to-find specialty items — all carefully sourced to meet rigorous standards of performance and durability. Whether you're working in manufacturing, construction, automotive, or maintenance, we're here to be your trusted supply partner.

As we continue to grow, we remain committed to investing in inventory, technology, and our team — so we can serve you better every day. If you have questions, need technical assistance, or are looking for something not listed, please don't hesitate to reach out. We're here to help.

Thank you to all our amazing customers for your continued trust in Epco Sales! We are so grateful for your continued partnership with us! We look forward to supporting your success.

Sincerely,



Luke A. Yoder  
President  
Epco Sales, Inc.





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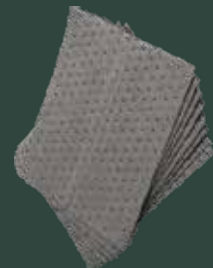
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# Section 1: Fasteners



## STAINLESS STEEL INFORMATION

### 18-8 Stainless Steel

Type 302, 303, 304, 305 stainless steel are all interchangeably called 18-8 stainless steel and are austenitic stainless steels. They have slight differences in chemical composition and their corrosion resistances vary only slightly. These are the most commonly used stainless steels and provide excellent corrosion resistance and are generally non magnetic. Strength for 18-8 stainless steel is between grade 2 and grade 5.

### 316 Stainless Steel

Type 316 stainless steel is also an austenitic stainless steel. It provides better corrosion resistance than 18-8 stainless steel and is non magnetic. Strength for 316 stainless steel is between grade 2 and grade 5.

### 400 Series Stainless Steel

Type 410 and 420 stainless steels are the 400 series stainless steels most commonly used in fasteners and they are also known as martensitic stainless steel. While 400 series stainless can be heat treated to provide strength it does not provide nearly as much corrosion resistance and it is magnetic.

We also can provide fasteners in other non ferrous materials such as: Brass, Aluminum, Silicone Bronze, and Titanium.

## FASTENER COATING INFORMATION

### Silver Zinc Plated

Silver Zinc is the most common coating for fasteners. It provides corrosion resistance for 24 hours in salt spray tests

### Yellow Zinc Plated

Yellow Zinc or Zinc Dichromate is most commonly used with grade 8 fasteners. It provides corrosion resistance for 72 hours in salt spray tests.

### Plain Finish

Plain finish has no coating although it typically comes with an oil coating to provide some shelf life. It provides no corrosion resistance and is for indoor use only.

### Hot Dip Galvanized

Hot Dip Galvanizing is used for outdoor applications and with treated lumber. It provides one of the best corrosion resistant coatings available.

### Phosphate & Oil Coated

Phosphate & Oil coating is black or gray in color and is used on fasteners such as frame bolts and nuts. It provides corrosion resistance for 72 hours in salt spray tests.

### Black Oxide Coated

Black Oxide is used when a black color is desired and not much corrosion resistance is needed. It provides corrosion resistance for 8 hours in salt spray tests.



## ROCKWELL HARDNESS

| Grade | Core Hardness Rockwell |
|-------|------------------------|
| A307  | B69-B100               |
| 5     | C25-C34                |
| 8     | C33-C39                |
| 9     | C38-C42                |

## COMMON IMPERIAL THREAD PITCHES

| Coarse  | Fine     |
|---------|----------|
| #4-40   | n/a      |
| #6-32   | n/a      |
| #8-32   | n/a      |
| #10-24  | #10-32   |
| #12-24  | #12-28   |
| 1/4-20  | 1/4-28   |
| 5/16-18 | 5/16-24  |
| 3/8-16  | 3/8-24   |
| 7/16-14 | 7/16-20  |
| 1/2-13  | 1/2-20   |
| 9/16-12 | 9/16-18  |
| 5/8-11  | 5/8-18   |
| 3/4-10  | 3/4-16   |
| 7/8-9   | 7/8-14   |
| 1-8     | 1-14     |
| 1 1/8-7 | 1 1/8-12 |
| 1 1/4-7 | 1 1/4-12 |
| 1 1/2-6 | 1 1/2-12 |
| 1 3/4-5 | 1 3/4-12 |
| 2-4 1/2 | 2-12     |

## SUGGESTED TORQUE VALUES FOR BOLTS

| Diameter & TPI | Grade 2  | Grade 5  | Grade 8   | 18/8 Stainless Steel |
|----------------|----------|----------|-----------|----------------------|
| 2-56           | -        | -        | -         | 2.5                  |
| 3-48           | -        | -        | -         | 3.9                  |
| 4-40           | -        | -        | -         | 5.2                  |
| 6-32           | -        | -        | -         | 9.6                  |
| 8-32           | -        | -        | -         | 19.8                 |
| 10-24          | -        | -        | -         | 22.8                 |
| 10-32          | -        | -        | -         | 31.7                 |
| 1/4-20         | 4-7      | 7-10     | 10-14     | 6.2                  |
| 1/4-28         | 5-8      | 8-12     | 11-16     | 7.8                  |
| 5/16-18        | 9-14     | 14-21    | 20-29     | 11                   |
| 5/16-24        | 10-15    | 15-23    | 22-33     | 11.8                 |
| 3/8-16         | 16-24    | 25-37    | 35-52     | 19.6                 |
| 3/8-24         | 18-27    | 28-42    | 40-59     | 21.5                 |
| 7/16-14        | 26-38    | 40-59    | 56-84     | 31.3                 |
| 7/16-20        | 29-43    | 44-66    | 62-93     | 33.3                 |
| 1/2-13         | 39-59    | 60-90    | 85-128    | 43                   |
| 1/2-20         | 44-66    | 68-102   | 96-144    | 45                   |
| 9/16-12        | 56-84    | 87-131   | 123-184   | 56.8                 |
| 9/16-18        | 63-94    | 97-146   | 137-206   | 62.6                 |
| 5/8-11         | 78-117   | 120-180  | 170-254   | 92.5                 |
| 5/8-18         | 88-132   | 136-204  | 192-288   | 103                  |
| 3/4-10         | 138-207  | 213-319  | 301-451   | 127                  |
| 3/4-16         | 154-231  | 238-357  | 336-504   | 124                  |
| 7/8-9          | 222-334  | 344-515  | 485-728   | 194                  |
| 7/8-14         | 245-367  | 379-568  | 534-802   | 193                  |
| 1-8            | 333-500  | 515-773  | 727-1091  | 286                  |
| 1-14           | 373-560  | 577-866  | 815-1222  | 259                  |
| 1 1/8-7        | 472-708  | 635-953  | 1030-1545 | 413                  |
| 1 1/8-12       | 530-794  | 713-1069 | 1156-1733 | 390                  |
| 1 1/4-7        | 666-999  | 896-1344 | 1454-2180 | 523                  |
| 1 1/4-12       | 738-1107 | 993-1489 | 1610-2414 | 480                  |

# HEX CAP SCREWS AND HEX BOLTS TECHNICAL INFORMATION

## TENSILE STRENGTHS

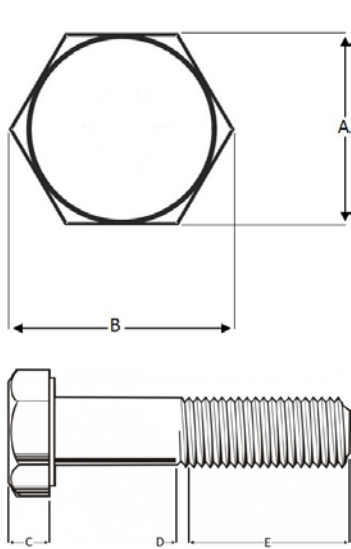
### COARSE THREAD

| Diameter | Grade A307 | Grade 5 | Grade 8 | Grade 9 |
|----------|------------|---------|---------|---------|
| 1/4-20   | 1900       | 3800    | 4750    | 5724    |
| 5/16-18  | 3100       | 6300    | 7850    | 9432    |
| 3/8-16   | 4650       | 9300    | 11600   | 13950   |
| 7/16-14  | 6350       | 12800   | 15900   | 19134   |
| 1/2-13   | 8500       | 17000   | 21300   | 25542   |
| 9/16-12  | 11000      | 21800   | 27300   | 32760   |
| 5/8-11   | 13550      | 27100   | 33900   | 40680   |
| 3/4-10   | 20050      | 40100   | 50100   | 60120   |
| 7/8-9    | 27700      | 55400   | 69300   | 83460   |
| 1-8      | 36350      | 72700   | 90900   | 109080  |
| 1 1/8-7  | 45800      | 80100   | 114400  | 137340  |
| 1 1/4-7  | 58150      | 101700  | 145400  | 174420  |
| 1 1/2-6  | 84300      | 147500  | 210800  | -       |

### FINE THREAD

| Diameter | Grade 5 | Grade 8 | Grade 9 |
|----------|---------|---------|---------|
| 1/4-28   | 4350    | 5450    | 6552    |
| 5/16-24  | 6950    | 8700    | 10440   |
| 3/8-24   | 10500   | 13200   | 15804   |
| 7/16-20  | 14200   | 17800   | 21366   |
| 1/2-20   | 19200   | 24000   | 28782   |
| 9/16-18  | 24400   | 30400   | 36540   |
| 5/8-18   | 30700   | 38400   | 46080   |
| 3/4-16   | 44800   | 56000   | 67140   |
| 7/8-14   | 61100   | 76400   | 91620   |
| 1-14     | 81500   | 101900  | 119340  |
| 1 1/8-12 | 89900   | 128400  | -       |
| 1 1/4-12 | 112700  | 161000  | -       |
| 1 1/2-12 | 166000  | 237200  | -       |

## HEX CAP SCREW DIMENSIONS



|               | A                  | B                    | C                      |         | D                                  | E                                 |                          |
|---------------|--------------------|----------------------|------------------------|---------|------------------------------------|-----------------------------------|--------------------------|
| Bolt Diameter | Width Across Flats | Width Across Corners | A307, Grade 5, Grade 8 | Grade 9 | Basic Thread Length 6" and shorter | Basic Thread Length 6" and longer | Transition Thread Length |
| 1/4           | 7/16               | 0.497                | 5/32                   | 3/16    | 3/4                                | 1                                 | 0.25                     |
| 5/16          | 1/2                | 0.567                | 13/64                  | 15/64   | 7/8                                | 1 1/8                             | 0.278                    |
| 3/8           | 9/16               | 0.639                | 15/64                  | 19/64   | 1                                  | 1 1/4                             | 0.312                    |
| 7/16          | 5/8                | 0.71                 | 9/32                   | 21/64   | 1 1/8                              | 1 3/8                             | 0.357                    |
| 1/2           | 3/4                | 0.853                | 5/16                   | 3/8     | 1 1/4                              | 1 1/2                             | 0.385                    |
| 9/16          | 13/16              | 0.924                | 23/64                  | 27/64   | 1 3/8                              | 1 5/8                             | 0.417                    |
| 5/8           | 15/16              | 1.067                | 25/64                  | 15/32   | 1 1/2                              | 1 3/4                             | 0.455                    |
| 3/4           | 1 1/8              | 1.277                | 15/32                  | 9/16    | 1 3/4                              | 2                                 | 0.5                      |
| 7/8           | 1 5/16             | 1.491                | 35/64                  | 21/32   | 2                                  | 2 1/4                             | 0.556                    |
| 1             | 1 1/2              | 1.701                | 39/64                  | 3/4     | 2 1/4                              | 2 1/2                             | 0.625                    |
| 1 1/8         | 1 11/16            | 1.904                | 11/16                  | 27/32   | 2 1/2                              | 2 3/4                             | 0.714                    |
| 1 1/4         | 1 7/8              | 2.116                | 25/32                  | 15/16   | 2 3/4                              | 3                                 | 0.714                    |
| 1 1/2         | 2 1/4              | 2.539                | 15/16                  | -       | 3 1/4                              | 3 1/2                             | 0.833                    |

# HEX BOLTS

## GRADE 307A ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

Hex Bolts Grade A307 are manufactured to ASTM A307 Grade A specs. They have a minimum tensile strength of 60,000 psi. Grade A307 is similar to Grade 2 and they are often used interchangeably although Grade 2 has a slightly higher tensile strength of 74,000 psi.



| Part #   | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #                                                           | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|----------|-----------------|---------------|---------------|----------|------------------------------------------------------------------|-----------------|---------------|---------------|----------|
| FH204004 | 1/4-20 x 1/2    | 20            | 100           | 4500     | FH206028                                                         | 3/8-16 x 3-1/2  | 10            | 50            | 400      |
| FH204005 | 1/4-20 x 5/8    | 20            | 100           | 4000     | FH206032                                                         | 3/8-16 x 4      | 10            | 50            | 300      |
| FH204006 | 1/4-20 x 3/4    | 20            | 100           | 3750     | FH206036                                                         | 3/8-16 x 4-1/2  | 10            | 50            | 300      |
| FH204007 | 1/4-20 x 7/8    | 20            | 100           | 3600     | FH206040                                                         | 3/8-16 x 5      | 10            | 50            | 300      |
| FH204008 | 1/4-20 x 1      | 20            | 100           | 3000     | FH206044                                                         | 3/8-16 x 5-1/2  | 10            | 50            | 300      |
| FH204010 | 1/4-20 x 1-1/4  | 20            | 100           | 2250     | FH206048                                                         | 3/8-16 x 6      | 10            | 50            | 250      |
| FH204012 | 1/4-20 x 1-1/2  | 20            | 100           | 1825     | FH207008                                                         | 7/16-14 x 1     | 10            | 50            | 800      |
| FH204016 | 1/4-20 x 2      | 20            | 100           | 1375     | FH207012                                                         | 7/16-14 x 1-1/2 | 10            | 50            | 600      |
| FH204018 | 1/4-20 x 2-1/4  | 20            | 100           | 1400     | FH207016                                                         | 7/16-14 x 2     | 10            | 50            | 600      |
| FH204020 | 1/4-20 x 2-1/2  | 20            | 100           | 1125     | FH207020                                                         | 7/16-14 x 2-1/2 | 10            | 50            | 450      |
| FH204024 | 1/4-20 x 3      | 20            | 100           | 875      | FH207024                                                         | 7/16-14 x 3     | 10            | 50            | 350      |
| FH204028 | 1/4-20 x 3-1/2  | 20            | 100           | 750      | FH207028                                                         | 7/16-14 x 3-1/2 | 5             | 25            | 300      |
| FH204032 | 1/4-20 x 4      | 20            | 100           | 500      | FH207032                                                         | 7/16-14 x 4     | 5             | 25            | 250      |
| FH205006 | 5/16-18 x 3/4   | 20            | 100           | 2000     | FH207036                                                         | 7/16-14 x 4-1/2 | 5             | 25            | 175      |
| FH205008 | 5/16-18 x 1     | 20            | 100           | 1750     | FH207040                                                         | 7/16-14 x 5     | 5             | 25            | 175      |
| FH205010 | 5/16-18 x 1-1/4 | 20            | 100           | 1800     | FH207048                                                         | 7/16-14 x 6     | 5             | 25            | 175      |
| FH205012 | 5/16-18 x 1-1/2 | 20            | 100           | 1125     | FH208008                                                         | 1/2-13 x 1      | 10            | 50            | 600      |
| FH205014 | 5/16-18 x 1-3/4 | 20            | 100           | 1000     | FH208010                                                         | 1/2-13 x 1-1/4  | 10            | 50            | 375      |
| FH205016 | 5/16-18 x 2     | 20            | 100           | 925      | FH208012                                                         | 1/2-13 x 1-1/2  | 10            | 50            | 450      |
| FH205020 | 5/16-18 x 2-1/2 | 20            | 100           | 750      | FH208014                                                         | 1/2-13 x 1-3/4  | 10            | 50            | 400      |
| FH205024 | 5/16-18 x 3     | 20            | 100           | 575      | FH208016                                                         | 1/2-13 x 2      | 10            | 50            | 350      |
| FH205028 | 5/16-18 x 3-1/2 | 10            | 50            | 475      | FH208018                                                         | 1/2-13 x 2-1/4  | 10            | 50            | 400      |
| FH205032 | 5/16-18 x 4     | 10            | 50            | 450      | FH208020                                                         | 1/2-13 x 2-1/2  | 10            | 50            | 225      |
| FH205036 | 5/16-18 x 4-1/2 | 10            | 50            | 400      | FH208024                                                         | 1/2-13 x 3      | 10            | 50            | 250      |
| FH205040 | 5/16-18 x 5     | 10            | 50            | 300      | FH208028                                                         | 1/2-13 x 3-1/2  | 5             | 25            | 250      |
| FH205048 | 5/16-18 x 6     | 10            | 50            | 300      | FH208032                                                         | 1/2-13 x 4      | 5             | 25            | 200      |
| FH206006 | 3/8-16 x 3/4    | 20            | 100           | 1500     | FH208036                                                         | 1/2-13 x 4-1/2  | 5             | 25            | 175      |
| FH206008 | 3/8-16 x 1      | 20            | 100           | 1200     | FH208040                                                         | 1/2-13 x 5      | 5             | 25            | 110      |
| FH206010 | 3/8-16 x 1-1/4  | 20            | 100           | 1000     | FH208044                                                         | 1/2-13 x 5-1/2  | 5             | 25            | 150      |
| FH206012 | 3/8-16 x 1-1/2  | 20            | 100           | 850      | FH208048                                                         | 1/2-13 x 6      | 5             | 25            | 100      |
| FH206016 | 3/8-16 x 2      | 20            | 100           | 625      | FH208068                                                         | 1/2-13 x 8-1/2  | -             | 1             | 80       |
| FH206020 | 3/8-16 x 2-1/2  | 10            | 50            | 400      | Don't see the size you're looking for? Call us for availability! |                 |               |               |          |
| FH206024 | 3/8-16 x 3      | 10            | 50            | 450      |                                                                  |                 |               |               |          |

# HEX BOLTS, HEX CAP SCREWS

## GRADE 307A ▪ COARSE THREAD ▪ HOT DIP GALVANIZED ▪ IMPORTED

| Part #    | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-----------|-----------------|---------------|---------------|----------|
| FH2G05020 | 5/16-18 x 2-1/2 | 20            | 100           | 900      |
| FH2G05024 | 5/16-18 x 3     | 20            | 100           | 700      |
| FH2G06008 | 3/8-16 x 1      | 20            | 100           | 1500     |
| FH2G06012 | 3/8-16 x 1-1/2  | 20            | 100           | 1000     |
| FH2G06016 | 3/8-16 x 2      | 20            | 100           | 800      |
| FH2G06020 | 3/8-16 x 2-1/2  | 10            | 50            | 650      |
| FH2G06024 | 3/8-16 x 3      | 10            | 50            | 500      |
| FH2G08048 | 1/2-13 x 6      | 5             | 25            | 150      |
| FH2G08056 | 1/2-13 x 7      | 2             | 10            | 150      |



## HEX CAP SCREWS

### GRADE 5 ▪ COARSE THREAD ▪ ZINC PLATED ▪ MADE IN USA OR CANADA

Hex Cap Screws Grade 5 are manufactured to SAE J429 Grade 5 specs. 1/4" to 1" diameters have a minimum tensile strength of 120,000 psi and 1 1/8" to 1 1/2" diameters have a minimum tensile strength of 105,000 psi.



| Part #    | Size            | Farm Pack Qty | Package Qty | Bulk Qty | Part #   | Size            | Farm Pack Qty | Package Qty | Bulk Qty |
|-----------|-----------------|---------------|-------------|----------|----------|-----------------|---------------|-------------|----------|
| FH5I04003 | 1/4-20 x 3/8*   | 20            | 100         | 3300     | FH504032 | 1/4-20 x 4      | 20            | 100         | 450      |
| FH504004  | 1/4-20 x 1/2    | 20            | 100         | 3300     | FH504034 | 1/4-20 x 4-1/4  | 10            | 50          | 450      |
| FH504005  | 1/4-20 x 5/8    | 20            | 100         | 3000     | FH504036 | 1/4-20 x 4-1/2  | 10            | 50          | 450      |
| FH504006  | 1/4-20 x 3/4    | 20            | 100         | 2700     | FH504040 | 1/4-20 x 5      | 10            | 50          | 400      |
| FH504007  | 1/4-20 x 7/8    | 20            | 100         | 2500     | FH504044 | 1/4-20 x 5-1/2  | 10            | 50          | 400      |
| FH504008  | 1/4-20 x 1      | 20            | 100         | 2200     | FH504048 | 1/4-20 x 6      | 10            | 50          | 350      |
| FH504010  | 1/4-20 x 1-1/4  | 20            | 100         | 1900     | FH504064 | 1/4-20 x 8      | -             | 10          | 275      |
| FH5I04011 | 1/4-20 x 1-3/8* | 20            | 100         | 1600     | FH505004 | 5/16-18 x 1/2   | 20            | 100         | 1950     |
| FH504012  | 1/4-20 x 1-1/2  | 20            | 100         | 1600     | FH505005 | 5/16-18 x 5/8   | 20            | 100         | 1800     |
| FH504014  | 1/4-20 x 1-3/4  | 20            | 100         | 1400     | FH505006 | 5/16-18 x 3/4   | 20            | 100         | 1650     |
| FH504016  | 1/4-20 x 2      | 20            | 100         | 1200     | FH505007 | 5/16-18 x 7/8   | 20            | 100         | 1500     |
| FH504018  | 1/4-20 x 2-1/4  | 20            | 100         | 1000     | FH505008 | 5/16-18 x 1     | 20            | 100         | 1400     |
| FH504020  | 1/4-20 x 2-1/2  | 20            | 100         | 900      | FH505010 | 5/16-18 x 1-1/4 | 20            | 100         | 1100     |
| FH504022  | 1/4-20 x 2-3/4  | 20            | 100         | 750      | FH505012 | 5/16-18 x 1-1/2 | 20            | 100         | 1000     |
| FH504024  | 1/4-20 x 3      | 20            | 100         | 750      | FH505014 | 5/16-18 x 1-3/4 | 20            | 100         | 850      |
| FH504026  | 1/4-20 x 3-1/4  | 20            | 100         | 600      | FH505016 | 5/16-18 x 2     | 20            | 100         | 800      |
| FH504028  | 1/4-20 x 3-1/2  | 20            | 100         | 550      | FH505018 | 5/16-18 x 2-1/4 | 20            | 100         | 700      |
| FH504030  | 1/4-20 x 3-3/4  | 20            | 100         | 500      |          |                 |               |             |          |

\*Import \*\*Black Zinc



## GRADE 5 • COARSE THREAD • ZINC PLATED • MADE IN USA OR CANADA

| Part #   | Size            | Farm Pack Qty | Package Qty | Bulk Qty | Part #     | Size            | Farm Pack Qty | Package Qty | Bulk Qty |
|----------|-----------------|---------------|-------------|----------|------------|-----------------|---------------|-------------|----------|
| FH505020 | 5/16-18 x 2-1/2 | 20            | 100         | 600      | FH506068   | 3/8-16 x 8-1/2  | -             | 10          | 130      |
| FH505022 | 5/16-18 x 2-3/4 | 20            | 100         | 550      | FH506072   | 3/8-16 x 9      | -             | 10          | 130      |
| FH505024 | 5/16-18 x 3     | 20            | 100         | 500      | FH506076   | 3/8-16 x 9-1/2  | -             | 10          | 125      |
| FH505026 | 5/16-18 x 3-1/4 | 10            | 50          | 450      | FH506080   | 3/8-16 x 10     | -             | 10          | 120      |
| FH505028 | 5/16-18 x 3-1/2 | 10            | 50          | 450      | FH506088   | 3/8-16 x 11     | -             | 5           | 110      |
| FH505030 | 5/16-18 x 3-3/4 | 10            | 50          | 400      | FH506096   | 3/8-16 x 12     | -             | 5           | 100      |
| FH505032 | 5/16-18 x 4     | 10            | 50          | 400      | FH507006   | 7/16-14 x 3/4   | 10            | 50          | 750      |
| FH505036 | 5/16-18 x 4-1/2 | 10            | 50          | 300      | FH507008   | 7/16-14 x 1     | 10            | 50          | 650      |
| FH505040 | 5/16-18 x 5     | 10            | 50          | 250      | FH507010   | 7/16-14 x 1-1/4 | 10            | 50          | 550      |
| FH505044 | 5/16-18 x 5-1/2 | 10            | 50          | 250      | FH507012   | 7/16-14 x 1-1/2 | 10            | 50          | 500      |
| FH505048 | 5/16-18 x 6     | 10            | 50          | 250      | FH507014   | 7/16-14 x 1-3/4 | 10            | 50          | 450      |
| FH505052 | 5/16-18 x 6-1/2 | -             | 10          | 250      | FH507016   | 7/16-14 x 2     | 10            | 50          | 400      |
| FH505056 | 5/16-18 x 7     | -             | 10          | 225      | FH507018   | 7/16-14 x 2-1/4 | 10            | 50          | 350      |
| FH505064 | 5/16-18 x 8     | -             | 10          | 225      | FH507020   | 7/16-14 x 2-1/2 | 10            | 50          | 300      |
| FH506004 | 3/8-16 x 1/2    | 20            | 100         | 1300     | FH507022   | 7/16-14 x 2-3/4 | 10            | 50          | 300      |
| FH506005 | 3/8-16 x 5/8    | 20            | 100         | 1200     | FH507024   | 7/16-14 x 3     | 10            | 50          | 275      |
| FH506006 | 3/8-16 x 3/4    | 20            | 100         | 1100     | FH507026   | 7/16-14 x 3-1/4 | 5             | 25          | 250      |
| FH506008 | 3/8-16 x 1      | 20            | 100         | 900      | FH507028   | 7/16-14 x 3-1/2 | 5             | 25          | 225      |
| FH506010 | 3/8-16 x 1-1/4  | 20            | 100         | 800      | FH507030   | 7/16-14 x 3-3/4 | 5             | 25          | 225      |
| FH506011 | 3/8-16 x 1-3/8* | 20            | 100         | 675      | FH507032   | 7/16-14 x 4     | 5             | 25          | 200      |
| FH506012 | 3/8-16 x 1-1/2  | 20            | 100         | 675      | FH5BZ07032 | 7/16-14 x 4**   | 5             | 25          | 200      |
| FH506014 | 3/8-16 x 1-3/4  | 20            | 100         | 600      | FH507036   | 7/16-14 x 4-1/2 | 5             | 25          | 175      |
| FH506016 | 3/8-16 x 2      | 20            | 100         | 550      | FH507040   | 7/16-14 x 5     | 5             | 25          | 150      |
| FH506018 | 3/8-16 x 2-1/4  | 10            | 50          | 450      | FH507044   | 7/16-14 x 5-1/2 | 5             | 25          | 150      |
| FH506020 | 3/8-16 x 2-1/2  | 10            | 50          | 400      | FH507048   | 7/16-14 x 6     | 5             | 25          | 125      |
| FH506022 | 3/8-16 x 2-3/4  | 10            | 50          | 400      | FH507052   | 7/16-14 x 6-1/2 | -             | 10          | 125      |
| FH506024 | 3/8-16 x 3      | 10            | 50          | 325      | FH507056   | 7/16-14 x 7     | -             | 10          | 125      |
| FH506026 | 3/8-16 x 3-1/4  | 10            | 50          | 325      | FH507060   | 7/16-14 x 7-1/2 | -             | 10          | 110      |
| FH506028 | 3/8-16 x 3-1/2  | 10            | 50          | 300      | FH507064   | 7/16-14 x 8     | -             | 10          | 110      |
| FH506030 | 3/8-16 x 3-3/4  | 10            | 50          | 250      | FH507072   | 7/16-14 x 9     | -             | 10          | 100      |
| FH506032 | 3/8-16 x 4      | 10            | 50          | 250      | FH507080   | 7/16-14 x 10    | -             | 10          | 90       |
| FH506034 | 3/8-16 x 4-1/4  | 10            | 50          | 225      | FH508006   | 1/2-13 x 3/4    | 10            | 50          | 475      |
| FH506036 | 3/8-16 x 4-1/2  | 10            | 50          | 225      | FH508008   | 1/2-13 x 1      | 10            | 50          | 400      |
| FH506040 | 3/8-16 x 5      | 10            | 50          | 225      | FH508010   | 1/2-13 x 1-1/4  | 10            | 50          | 375      |
| FH506044 | 3/8-16 x 5-1/2  | 10            | 50          | 175      | FH508012   | 1/2-13 x 1-1/2  | 10            | 50          | 300      |
| FH506048 | 3/8-16 x 6      | 10            | 50          | 175      | FH508014   | 1/2-13 x 1-3/4  | 10            | 50          | 275      |
| FH506052 | 3/8-16 x 6-1/2  | -             | 10          | 175      | FH508016   | 1/2-13 x 2      | 10            | 50          | 250      |
| FH506056 | 3/8-16 x 7      | -             | 10          | 150      | FH508018   | 1/2-13 x 2-1/4  | 10            | 50          | 225      |
| FH506060 | 3/8-16 x 7-1/2  | -             | 10          | 150      | FH508020   | 1/2-13 x 2-1/2  | 10            | 50          | 225      |
| FH506064 | 3/8-16 x 8      | -             | 10          | 150      |            |                 |               |             |          |

\*Import \*\*Black Zinc

# HEX CAP SCREWS

## GRADE 5 • COARSE THREAD • ZINC PLATED • MADE IN USA OR CANADA

| Part #   | Size            | Farm Pack Qty | Package Qty | Bulk Qty | Part #   | Size            | Farm Pack Qty | Package Qty | Bulk Qty |
|----------|-----------------|---------------|-------------|----------|----------|-----------------|---------------|-------------|----------|
| FH508022 | 1/2-13 x 2-3/4  | 10            | 50          | 200      | FH510014 | 5/8-11 x 1-3/4  | 5             | 25          | 175      |
| FH508024 | 1/2-13 x 3      | 10            | 50          | 200      | FH510016 | 5/8-11 x 2      | 5             | 25          | 175      |
| FH508026 | 1/2-13 x 3-1/4  | 5             | 25          | 175      | FH510018 | 5/8-11 x 2-1/4  | 5             | 25          | 150      |
| FH508028 | 1/2-13 x 3-1/2  | 5             | 25          | 150      | FH510020 | 5/8-11 x 2-1/2  | 5             | 25          | 125      |
| FH508030 | 1/2-13 x 3-3/4  | 5             | 25          | 150      | FH510022 | 5/8-11 x 2-3/4  | 5             | 25          | 125      |
| FH508032 | 1/2-13 x 4      | 5             | 25          | 150      | FH510024 | 5/8-11 x 3      | 5             | 25          | 100      |
| FH508036 | 1/2-13 x 4-1/2  | 5             | 25          | 125      | FH510026 | 5/8-11 x 3-1/4  | 5             | 25          | 100      |
| FH508040 | 1/2-13 x 5      | 5             | 25          | 125      | FH510028 | 5/8-11 x 3-1/2  | 5             | 25          | 100      |
| FH508044 | 1/2-13 x 5-1/2  | 5             | 25          | 100      | FH510030 | 5/8-11 x 3-3/4  | 5             | 25          | 100      |
| FH508048 | 1/2-13 x 6      | 5             | 25          | 100      | FH510032 | 5/8-11 x 4      | 5             | 25          | 90       |
| FH508052 | 1/2-13 x 6-1/2  | -             | 10          | 100      | FH510036 | 5/8-11 x 4-1/2  | 4             | 20          | 80       |
| FH508056 | 1/2-13 x 7      | -             | 10          | 90       | FH510040 | 5/8-11 x 5      | 4             | 20          | 75       |
| FH508060 | 1/2-13 x 7-1/2  | -             | 10          | 80       | FH510044 | 5/8-11 x 5-1/2  | 4             | 20          | 70       |
| FH508064 | 1/2-13 x 8      | -             | 10          | 80       | FH510048 | 5/8-11 x 6      | 4             | 20          | 65       |
| FH508068 | 1/2-13 x 8-1/2  | -             | 10          | 80       | FH510052 | 5/8-11 x 6-1/2  | -             | 5           | 60       |
| FH508072 | 1/2-13 x 9      | -             | 10          | 75       | FH510056 | 5/8-11 x 7      | -             | 5           | 55       |
| FH508076 | 1/2-13 x 9-1/2  | -             | 10          | 70       | FH510060 | 5/8-11 x 7-1/2  | -             | 5           | 55       |
| FH508080 | 1/2-13 x 10     | -             | 10          | 65       | FH510064 | 5/8-11 x 8      | -             | 5           | 50       |
| FH508088 | 1/2-13 x 11     | -             | 5           | 60       | FH510068 | 5/8-11 x 8-1/2  | -             | 5           | 50       |
| FH508096 | 1/2-13 x 12     | -             | 5           | 55       | FH510072 | 5/8-11 x 9      | -             | 5           | 45       |
| FH508112 | 1/2-13 x 14     | -             | 5           | 50       | FH510080 | 5/8-11 x 10     | -             | 5           | 40       |
| FH508120 | 1/2-13 x 15     | -             | 5           | 45       | FH510088 | 5/8-11 x 11     | -             | 5           | 40       |
| FH509008 | 9/16-12 x 1     | 5             | 25          | 350      | FH510096 | 5/8-11 x 12     | -             | 5           | 35       |
| FH509010 | 9/16-12 x 1-1/4 | 5             | 25          | 300      | FH510120 | 5/8-11 x 15     | -             | 5           | 30       |
| FH509012 | 9/16-12 x 1-1/2 | 5             | 25          | 275      | FH512008 | 3/4-10 x 1      | 4             | 20          | 150      |
| FH509014 | 9/16-12 x 1-3/4 | 5             | 25          | 250      | FH512010 | 3/4-10 x 1-1/4  | 4             | 20          | 140      |
| FH509016 | 9/16-12 x 2     | 5             | 25          | 225      | FH512012 | 3/4-10 x 1-1/2  | 4             | 20          | 125      |
| FH509018 | 9/16-12 x 2-1/4 | 5             | 25          | 200      | FH512014 | 3/4-10 x 1-3/4  | 4             | 20          | 120      |
| FH509020 | 9/16-12 x 2-1/2 | 5             | 25          | 175      | FH512016 | 3/4-10 x 2      | 4             | 20          | 100      |
| FH509022 | 9/16-12 x 2-3/4 | 5             | 25          | -        | FH512018 | 3/4-10 x 2-1/4  | 4             | 20          | 100      |
| FH509024 | 9/16-12 x 3     | 5             | 25          | 150      | FH512020 | 3/4-10 x 2-1/2  | 4             | 20          | 90       |
| FH509028 | 9/16-12 x 3-1/2 | 5             | 25          | 125      | FH512022 | 3/4-10 x 2-3/4  | 4             | 20          | 85       |
| FH509032 | 9/16-12 x 4     | 5             | 25          | 100      | FH512024 | 3/4-10 x 3      | 4             | 20          | 80       |
| FH509036 | 9/16-12 x 4-1/2 | 5             | 25          | 100      | FH512026 | 3/4-10 x 3-1/4  | 4             | 20          | 75       |
| FH509040 | 9/16-12 x 5     | 5             | 25          | 100      | FH512028 | 3/4-10 x 3-1/2  | 4             | 20          | 70       |
| FH509044 | 9/16-12 x 5-1/2 | 5             | 25          | 75       | FH512030 | 3/4-10 x 3-3/4  | 3             | 15          | 65       |
| FH509048 | 9/16-12 x 6     | 5             | 25          | 75       | FH512032 | 3/4-10 x 4      | 3             | 15          | 60       |
| FH510008 | 5/8-11 x 1      | 5             | 25          | 250      | FH512034 | 3/4-10 x 4-1/4* | 3             | 15          | 55       |
| FH510010 | 5/8-11 x 1-1/4  | 5             | 25          | 225      | FH512036 | 3/4-10 x 4-1/2  | 3             | 15          | 55       |
| FH510012 | 5/8-11 x 1-1/2  | 5             | 25          | 200      |          |                 |               |             |          |

\*Import \*\*Black Zinc

## GRADE 5 • COARSE THREAD • ZINC PLATED • MADE IN USA OR CANADA

| Part #   | Size           | Farm Pack Qty | Package Qty | Bulk Qty | Part #               | Size          | Farm Pack Qty | Package Qty | Bulk Qty |
|----------|----------------|---------------|-------------|----------|----------------------|---------------|---------------|-------------|----------|
| FH512040 | 3/4-10 x 5     | 3             | 15          | 45       | FH514044             | 7/8-9 x 5-1/2 | -             | 3           | 35       |
| FH512044 | 3/4-10 x 5-1/2 | 3             | 15          | 45       | FH514048             | 7/8-9 x 6     | -             | 3           | 30       |
| FH512048 | 3/4-10 x 6     | -             | 5           | 40       | FH514056             | 7/8-9 x 7     | -             | 3           | 25       |
| FH512052 | 3/4-10 x 6-1/2 | -             | 5           | 40       | FH514064             | 7/8-9 x 8     | -             | 3           | 25       |
| FH512056 | 3/4-10 x 7     | -             | 5           | 35       | FH516012             | 1-8 x 1-1/2   | 2             | 10          | 55       |
| FH512060 | 3/4-10 x 7-1/2 | -             | 5           | 35       | FH516016             | 1-8 x 2       | 2             | 10          | 50       |
| FH512064 | 3/4-10 x 8     | -             | 5           | 35       | FH516020             | 1-8 x 2-1/2   | 2             | 10          | 45       |
| FH512068 | 3/4-10 x 8-1/2 | -             | 5           | 30       | FH516024             | 1-8 x 3       | 2             | 10          | 40       |
| FH512072 | 3/4-10 x 9     | -             | 5           | 30       | FH516028             | 1-8 x 3-1/2   | -             | 3           | 35       |
| FH512080 | 3/4-10 x 10    | -             | 5           | 30       | FH516032             | 1-8 x 4       | -             | 3           | 35       |
| FH512088 | 3/4-10 x 11    | -             | 5           | 25       | FH516036             | 1-8 x 4-1/2   | -             | 3           | 30       |
| FH512096 | 3/4-10 x 12    | -             | 5           | 25       | FH516040             | 1-8 x 5       | -             | 3           | 25       |
| FH512104 | 3/4-10 x 13    | -             | 5           | 20       | FH516044             | 1-8 x 5-1/2   | -             | 3           | 25       |
| FH514012 | 7/8-9 x 1-1/2  | 3             | 15          | 85       | FH516048             | 1-8 x 6       | -             | 3           | 25       |
| FH514014 | 7/8-9 x 1-3/4  | 3             | 15          | 80       | FH516052             | 1-8 x 6-1/2   | -             | 3           | 20       |
| FH514016 | 7/8-9 x 2      | 3             | 15          | 75       | FH516056             | 1-8 x 7       | -             | 3           | 20       |
| FH514020 | 7/8-9 x 2-1/2  | 3             | 15          | 65       | FH516060             | 1-8 x 7-1/2   | -             | 3           | 20       |
| FH514024 | 7/8-9 x 3      | 3             | 15          | 55       | FH516064             | 1-8 x 8       | -             | 3           | 18       |
| FH514028 | 7/8-9 x 3-1/2  | -             | 3           | 50       | FH516072             | 1-8 x 9       | -             | 3           | 15       |
| FH514032 | 7/8-9 x 4      | -             | 3           | 45       | FH516080             | 1-8 x 10      | -             | 3           | 15       |
| FH514036 | 7/8-9 x 4-1/2  | -             | 3           | 40       | *Import **Black Zinc |               |               |             |          |
| FH514040 | 7/8-9 x 5      | -             | 3           | 35       |                      |               |               |             |          |

## GRADE 5 • FINE THREAD • ZINC PLATED • MADE IN USA OR CANADA

| Part #    | Size            | Farm Pack Qty | Package Qty | Bulk Qty |
|-----------|-----------------|---------------|-------------|----------|
| FH5F05008 | 5/16-24 x 1     | 20            | 100         | 1400     |
| FH5F05014 | 5/16-24 x 1-3/4 | 20            | 100         | 850      |
| FH5F06010 | 3/8-24 x 1-1/4  | 20            | 100         | 800      |
| FH5F08008 | 1/2-20 x 1      | 10            | 50          | 400      |
| FH5F08012 | 1/2-20 x 1-1/2  | 10            | 50          | 300      |
| FH5F08040 | 1/2-20 x 5      | 5             | 25          | 125      |
| FH5F08044 | 1/2-20 x 5-1/2  | 10            | 50          | 100      |



## HEX CAP SCREWS

### GRADE 5 • COARSE THREAD • PLAIN FINISH • MADE IN USA OR CANADA



| Part #     | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #                                                                   | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|------------|-----------------|---------------|---------------|----------|--------------------------------------------------------------------------|-----------------|---------------|---------------|----------|
| FH5IP04010 | 1/4-20 x 1-1/4* | 20            | 100           | 1900     | FH5P08028                                                                | 1/2-13 x 3-1/2  | 5             | 25            | 150      |
| FH5IP04012 | 1/4-20 x 1-1/2* | 20            | 100           | 1600     | FH5IP08104                                                               | 1/2-13 x 13*    | -             | 5             | 50       |
| FH5IP04034 | 1/4-20 x 4-1/4* | 20            | 100           | 450      | FH5P09056                                                                | 9/16-12 x 7     | -             | -             | 50       |
| FH5P05012  | 5/16-18 x 1-1/2 | 20            | 100           | 1000     | FH5P10016                                                                | 5/8-11 x 2      | 5             | 25            | 175      |
| FH5P05018  | 5/16-18 x 2-1/4 | 20            | 100           | 700      | FH5P10018                                                                | 5/8-11 x 2-1/4  | 5             | 25            | 150      |
| FH5P06008  | 3/8-16 x 1      | 20            | 100           | 900      | FH5IP10020                                                               | 5/8-11 x 2-1/2* | 5             | 25            | 125      |
| FH5P06022  | 3/8-16 x 2-3/4  | 10            | 50            | 400      | FH5IP10024                                                               | 5/8-11 x 3*     | 5             | 25            | 100      |
| FH5P07008  | 7/16-14 x 1     | 10            | 50            | 650      | FH5P10028                                                                | 5/8-11 x 3-1/2  | 5             | 25            | 100      |
| FH5P07010  | 7/16-14 x 1-1/4 | 10            | 50            | 550      | FH5P10072                                                                | 5/8-11 x 9      | -             | 4             | 45       |
| FH5IP07056 | 7/16-14 x 7*    | -             | 10            | 125      | *Import Don't see the size you're looking for? Call us for availability! |                 |               |               |          |
| FH5IP08026 | 1/2-13 x 3-1/4* | 5             | 25            | 175      |                                                                          |                 |               |               |          |

### GRADE 8 • COARSE THREAD • YELLOW ZINC PLATED • MADE IN USA OR CANADA

Hex Cap Screws Grade 8 are manufactured to SAE J429 Grade 8 specs. They have a minimum tensile strength of 150,000 psi.



| Part #   | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #   | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|----------|----------------|---------------|---------------|----------|----------|----------------|---------------|---------------|----------|
| FH804004 | 1/4-20 x 1/2   | 20            | 100           | 3300     | FH804026 | 1/4-20 x 3 1/4 | 20            | 100           | 600      |
| FH804006 | 1/4-20 x 3/4   | 20            | 100           | 2700     | FH804028 | 1/4-20 x 3 1/2 | 20            | 100           | 550      |
| FH804007 | 1/4-20 x 7/8   | 20            | 100           | 2500     | FH804030 | 1/4-20 x 3 3/4 | 20            | 100           | 500      |
| FH804008 | 1/4-20 x 1     | 20            | 100           | 2200     | FH804032 | 1/4-20 x 4     | 20            | 100           | 450      |
| FH804010 | 1/4-20 x 1 1/4 | 20            | 100           | 1900     | FH804036 | 1/4-20 x 4 1/2 | 10            | 50            | 450      |
| FH804012 | 1/4-20 x 1 1/2 | 20            | 100           | 1600     | FH804040 | 1/4-20 x 5     | 10            | 50            | 400      |
| FH804014 | 1/4-20 x 1 3/4 | 20            | 100           | 1400     | FH804044 | 1/4-20 x 5 1/2 | 10            | 50            | 400      |
| FH804016 | 1/4-20 x 2     | 20            | 100           | 1200     | FH804048 | 1/4-20 x 6     | 10            | 50            | 350      |
| FH804018 | 1/4-20 x 2 1/4 | 20            | 100           | 1000     | FH805004 | 5/16-18 x 1/2  | 20            | 100           | 1950     |
| FH804020 | 1/4-20 x 2 1/2 | 20            | 100           | 900      | FH805006 | 5/16-18 x 3/4  | 20            | 100           | 1650     |
| FH804022 | 1/4-20 x 2 3/4 | 20            | 100           | 750      | FH805008 | 5/16-18 x 1    | 20            | 100           | 1400     |
| FH804024 | 1/4-20 x 3     | 20            | 100           | 750      | *Import  |                |               |               |          |

## GRADE 8 • COARSE THREAD • YELLOW ZINC PLATED • MADE IN USA OR CANADA

| Part #    | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #   | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-----------|-----------------|---------------|---------------|----------|----------|-----------------|---------------|---------------|----------|
| FH805010  | 5/16-18 x 1 1/4 | 20            | 100           | 1100     | FH806080 | 3/8-16 x 10     | -             | 10            | 120      |
| FH805012  | 5/16-18 x 1 1/2 | 20            | 100           | 1000     | FH807006 | 7/16-14 x 3/4   | 10            | 50            | 750      |
| FH805014  | 5/16-18 x 1 3/4 | 20            | 100           | 850      | FH807008 | 7/16-14 x 1     | 10            | 50            | 650      |
| FH805016  | 5/16-18 x 2     | 20            | 100           | 800      | FH807010 | 7/16-14 x 1 1/4 | 10            | 50            | 550      |
| FH805018  | 5/16-18 x 2 1/4 | 20            | 100           | 700      | FH807012 | 7/16-14 x 1 1/2 | 10            | 50            | 500      |
| FH805020  | 5/16-18 x 2 1/2 | 20            | 100           | 600      | FH807014 | 7/16-14 x 1 3/4 | 10            | 50            | 450      |
| FH805022  | 5/16-18 x 2 3/4 | 20            | 100           | 550      | FH807016 | 7/16-14 x 2     | 10            | 50            | 400      |
| FH805024  | 5/16-18 x 3     | 20            | 100           | 500      | FH807018 | 7/16-14 x 2 1/4 | 10            | 50            | 350      |
| FH805026  | 5/16-18 x 3 1/4 | 10            | 50            | 450      | FH807020 | 7/16-14 x 2 1/2 | 10            | 50            | 300      |
| FH805028  | 5/16-18 x 3 1/2 | 10            | 50            | 450      | FH807022 | 7/16-14 x 2 3/4 | 10            | 50            | 300      |
| FH805032  | 5/16-18 x 4     | 10            | 50            | 400      | FH807024 | 7/16-14 x 3     | 10            | 50            | 275      |
| FH805036  | 5/16-18 x 4 1/2 | 10            | 50            | 300      | FH807026 | 7/16-14 x 3 1/4 | 5             | 25            | 250      |
| FH805040  | 5/16-18 x 5     | 10            | 50            | 250      | FH807028 | 7/16-14 x 3 1/2 | 5             | 25            | 225      |
| FH805044  | 5/16-18 x 5 1/2 | 10            | 50            | 250      | FH807030 | 7/16-14 x 3 3/4 | 5             | 25            | 225      |
| FH805048  | 5/16-18 x 6     | 10            | 50            | 250      | FH807032 | 7/16-14 x 4     | 5             | 25            | 200      |
| FH805056  | 5/16-18 x 7     | -             | 10            | 225      | FH807036 | 7/16-14 x 4 1/2 | 5             | 25            | 175      |
| FH805064  | 5/16-18 x 8     | -             | 10            | 225      | FH807040 | 7/16-14 x 5     | 5             | 25            | 150      |
| FH806004  | 3/8-16 x 1/2    | 20            | 100           | 1300     | FH807044 | 7/16-14 x 5 1/2 | 5             | 25            | 150      |
| FH806006  | 3/8-16 x 3/4    | 20            | 100           | 1100     | FH807048 | 7/16-14 x 6     | 5             | 25            | 125      |
| FH806008  | 3/8-16 x 1      | 20            | 100           | 900      | FH807056 | 7/16-14 x 7     | -             | 10            | 125      |
| FH806010  | 3/8-16 x 1 1/4  | 20            | 100           | 800      | FH807064 | 7/16-14 x 8     | -             | 10            | 110      |
| FH806011  | 3/8-16 x 1 3/8  | 20            | 100           | 675      | FH808006 | 1/2-13 x 3/4    | 10            | 50            | 475      |
| FH806012  | 3/8-16 x 1 1/2  | 20            | 100           | 675      | FH808008 | 1/2-13 x 1      | 10            | 50            | 400      |
| FH806014  | 3/8-16 x 1 3/4  | 20            | 100           | 600      | FH808010 | 1/2-13 x 1 1/4  | 10            | 50            | 375      |
| FH806016  | 3/8-16 x 2      | 20            | 100           | 550      | FH808012 | 1/2-13 x 1 1/2  | 10            | 50            | 300      |
| FH806018  | 3/8-16 x 2 1/4  | 10            | 50            | 450      | FH808014 | 1/2-13 x 1 3/4  | 10            | 50            | 275      |
| FH806020  | 3/8-16 x 2 1/2  | 10            | 50            | 400      | FH808016 | 1/2-13 x 2      | 10            | 50            | 250      |
| FH806022  | 3/8-16 x 2 3/4  | 10            | 50            | 400      | FH808018 | 1/2-13 x 2 1/4  | 10            | 50            | 225      |
| FH806024  | 3/8-16 x 3      | 10            | 50            | 325      | FH808020 | 1/2-13 x 2 1/2  | 10            | 50            | 225      |
| FH806026  | 3/8-16 x 3 1/4  | 10            | 50            | 325      | FH808022 | 1/2-13 x 2 3/4  | 10            | 50            | 200      |
| FH806028  | 3/8-16 x 3 1/2  | 10            | 50            | 300      | FH808024 | 1/2-13 x 3      | 10            | 50            | 200      |
| FH806030  | 3/8-16 x 3 3/4  | 10            | 50            | 250      | FH808026 | 1/2-13 x 3 1/4  | 5             | 25            | 175      |
| FH806032  | 3/8-16 x 4      | 10            | 50            | 250      | FH808028 | 1/2-13 x 3 1/2  | 5             | 25            | 150      |
| FH806036  | 3/8-16 x 4 1/2  | 10            | 50            | 225      | FH808032 | 1/2-13 x 4      | 5             | 25            | 150      |
| FH806040  | 3/8-16 x 5      | 10            | 50            | 225      | FH808036 | 1/2-13 x 4 1/2  | 5             | 25            | 125      |
| FH806044  | 3/8-16 x 5 1/2  | 10            | 50            | 175      | FH808040 | 1/2-13 x 5      | 5             | 25            | 125      |
| FH806048  | 3/8-16 x 6      | 10            | 50            | 175      | FH808044 | 1/2-13 x 5 1/2  | 5             | 25            | 100      |
| FH806056  | 3/8-16 x 7      | -             | 10            | 150      | FH808048 | 1/2-13 x 6      | 5             | 25            | 100      |
| FH8106060 | 3/8-16 x 7 1/2* | -             | 10            | 150      | FH808052 | 1/2-13 x 6 1/2  | -             | 10            | 100      |
| FH806064  | 3/8-16 x 8      | -             | 10            | 150      |          |                 |               |               |          |

\*Import



# HEX CAP SCREWS

## GRADE 8 • COARSE THREAD • YELLOW ZINC PLATED • MADE IN USA OR CANADA

| Part #    | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #   | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-----------|-----------------|---------------|---------------|----------|----------|----------------|---------------|---------------|----------|
| FH808056  | 1/2-13 x 7      | -             | 10            | 90       | FH810052 | 5/8-11 x 6 1/2 | -             | 5             | 60       |
| FH808060  | 1/2-13 x 7 1/2  | -             | 10            | 80       | FH810056 | 5/8-11 x 7     | -             | 5             | 55       |
| FH808064  | 1/2-13 x 8      | -             | 10            | 80       | FH810060 | 5/8-11 x 7 1/2 | -             | 5             | 55       |
| FH808072  | 1/2-13 x 9      | -             | 10            | 75       | FH810064 | 5/8-11 x 8     | -             | 5             | 50       |
| FH808076  | 1/2-13 x 9 1/2  | -             | 10            | 48       | FH810068 | 5/8-11 x 8 1/2 | -             | 5             | 50       |
| FH808080  | 1/2-13 x 10     | -             | 10            | 65       | FH810072 | 5/8-11 x 9     | -             | 5             | 45       |
| FH8P08096 | 1/2-13 x 12     | -             | 5             | 55       | FH810080 | 5/8-11 x 10    | -             | 5             | 40       |
| FH809008  | 9/16-12 x 1     | 5             | 25            | 350      | FH810088 | 5/8-11 x 11    | -             | 5             | 40       |
| FH809010  | 9/16-12 x 1 1/4 | 5             | 25            | 300      | FH810096 | 5/8-11 x 12    | -             | 5             | 35       |
| FH809012  | 9/16-12 x 1 1/2 | 5             | 25            | 275      | FH810104 | 5/8-11 x 13    | -             | 5             | 30       |
| FH809014  | 9/16-12 x 1 3/4 | 5             | 25            | 250      | FH812008 | 3/4-10 x 1     | 4             | 20            | 150      |
| FH809016  | 9/16-12 x 2     | 5             | 25            | 225      | FH812010 | 3/4-10 x 1 1/4 | 4             | 20            | 140      |
| FH809018  | 9/16-12 x 2 1/4 | 5             | 25            | 200      | FH812012 | 3/4-10 x 1 1/2 | 4             | 20            | 125      |
| FH809020  | 9/16-12 x 2 1/2 | 5             | 25            | 175      | FH812014 | 3/4-10 x 1 3/4 | 4             | 20            | 120      |
| FH809022  | 9/16-12 x 2 3/4 | 5             | 25            | 150      | FH812016 | 3/4-10 x 2     | 4             | 20            | 100      |
| FH809024  | 9/16-12 x 3     | 5             | 25            | 150      | FH812018 | 3/4-10 x 2 1/4 | 4             | 20            | 100      |
| FH809028  | 9/16-12 x 3 1/2 | 5             | 25            | 125      | FH812020 | 3/4-10 x 2 1/2 | 4             | 20            | 90       |
| FH809030  | 9/16-12 x 3 3/4 | 5             | 25            | -        | FH812022 | 3/4-10 x 2 3/4 | 4             | 20            | 85       |
| FH809032  | 9/16-12 x 4     | 5             | 25            | 100      | FH812024 | 3/4-10 x 3     | 4             | 20            | 80       |
| FH809036  | 9/16-12 x 4 1/2 | 5             | 25            | 100      | FH812026 | 3/4-10 x 3 1/4 | 4             | 20            | 75       |
| FH809040  | 9/16-12 x 5     | 5             | 25            | 100      | FH812028 | 3/4-10 x 3 1/2 | 4             | 20            | 70       |
| FH809044  | 9/16-12 x 5 1/2 | 5             | 25            | 75       | FH812030 | 3/4-10 x 3 3/4 | 4             | 20            | 65       |
| FH809048  | 9/16-12 x 6     | 5             | 25            | 75       | FH812032 | 3/4-10 x 4     | 3             | 15            | 60       |
| FH810008  | 5/8-11 x 1      | 5             | 25            | 250      | FH812036 | 3/4-10 x 4 1/2 | 3             | 15            | 55       |
| FH810010  | 5/8-11 x 1 1/4  | 5             | 25            | 225      | FH812040 | 3/4-10 x 5     | 3             | 15            | 45       |
| FH810012  | 5/8-11 x 1 1/2  | 5             | 25            | 200      | FH812044 | 3/4-10 x 5 1/2 | 3             | 15            | 45       |
| FH810014  | 5/8-11 x 1 3/4  | 5             | 25            | 175      | FH812048 | 3/4-10 x 6     | -             | 5             | 40       |
| FH810016  | 5/8-11 x 2      | 5             | 25            | 175      | FH812052 | 3/4-10 x 6 1/2 | -             | 5             | 40       |
| FH810018  | 5/8-11 x 2 1/4  | 5             | 25            | 150      | FH812056 | 3/4-10 x 7     | -             | 5             | 35       |
| FH810020  | 5/8-11 x 2 1/2  | 5             | 25            | 125      | FH812060 | 3/4-10 x 7 1/2 | -             | 5             | 35       |
| FH810022  | 5/8-11 x 2 3/4  | 5             | 25            | 125      | FH812064 | 3/4-10 x 8     | -             | 5             | 35       |
| FH810024  | 5/8-11 x 3      | 5             | 25            | 100      | FH812068 | 3/4-10 x 8 1/2 | -             | 5             | 30       |
| FH810026  | 5/8-11 x 3 1/4  | 5             | 25            | 100      | FH812072 | 3/4-10 x 9     | -             | 5             | 30       |
| FH810028  | 5/8-11 x 3 1/2  | 5             | 25            | 100      | FH812076 | 3/4-10 x 9 1/2 | -             | 5             | 30       |
| FH810030  | 5/8-11 x 3 3/4  | 5             | 25            | 100      | FH812080 | 3/4-10 x 10    | -             | 5             | 30       |
| FH810032  | 5/8-11 x 4      | 5             | 25            | 90       | FH812088 | 3/4-10 x 11    | -             | 5             | 25       |
| FH810036  | 5/8-11 x 4 1/2  | 4             | 20            | 80       | FH812096 | 3/4-10 x 12    | -             | 5             | 25       |
| FH810040  | 5/8-11 x 5      | 4             | 20            | 75       | FH812104 | 3/4-10 x 13    | -             | 5             | 20       |
| FH810044  | 5/8-11 x 5 1/2  | 4             | 20            | 70       | FH814014 | 7/8-9 x 1 3/4  | -             | 15            | 80       |
| FH810048  | 5/8-11 x 6      | 4             | 20            | 65       |          |                |               |               |          |

\*Import

## GRADE 8 • COARSE THREAD • YELLOW ZINC PLATED • MADE IN USA OR CANADA

| Part #   | Size          | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #    | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|----------|---------------|---------------|---------------|----------|-----------|-----------------|---------------|---------------|----------|
| FH814016 | 7/8-9 x 2     | -             | 15            | 75       | FH816064  | 1-8 x 8         | -             | 3             | 18       |
| FH814020 | 7/8-9 x 2 1/2 | -             | 15            | 65       | FH816068  | 1-8 x 8 1/2     | -             | 3             | -        |
| FH814022 | 7/8-9 x 2 3/4 | -             | 15            | 60       | FH816072  | 1-8 x 9         | -             | 3             | 15       |
| FH814024 | 7/8-9 x 3     | -             | 15            | 55       | FH816080  | 1-8 x 10        | -             | 3             | 15       |
| FH814028 | 7/8-9 x 3 1/2 | -             | 3             | 50       | FH816088  | 1-8 x 11        | -             | 3             | 15       |
| FH814032 | 7/8-9 x 4     | -             | 3             | 45       | FH816096  | 1-8 x 12        | -             | 3             | 13       |
| FH814036 | 7/8-9 x 4 1/2 | -             | 3             | 40       | FH816112  | 1-8 x 14        | -             | 3             | 12       |
| FH814040 | 7/8-9 x 5     | -             | 3             | 35       | FH818028  | 1 1/8-7 x 3 1/2 | -             | 3             | 30       |
| FH814044 | 7/8-9 x 5 1/2 | -             | 3             | 35       | FH818032  | 1 1/8-7 x 4     | -             | 3             | 25       |
| FH814048 | 7/8-9 x 6     | -             | 3             | 30       | FH818040  | 1 1/8-7 x 5     | -             | 3             | 20       |
| FH814052 | 7/8-9 x 6 1/2 | -             | 3             | 30       | FH818048  | 1 1/8-7 x 6     | -             | 3             | 15       |
| FH814056 | 7/8-9 x 7     | -             | 3             | 25       | FH818056  | 1 1/8-7 x 7     | -             | 3             | 15       |
| FH814064 | 7/8-9 x 8     | -             | 3             | 25       | FH818064  | 1 1/8-7 x 8     | -             | 3             | 15       |
| FH814072 | 7/8-9 x 9     | -             | 3             | 23       | FH818072  | 1 1/8-7 x 9     | -             | 3             | 13       |
| FH814080 | 7/8-9 x 10    | -             | 3             | 20       | FH818080  | 1 1/8-7 x 10*   | -             | 3             | 12       |
| FH814088 | 7/8-9 x 11    | -             | 3             | 19       | FH8P18096 | 1 1/8-7 x 12    | -             | 3             | 10       |
| FH814096 | 7/8-9 x 12    | -             | 3             | 17       | FH820032  | 1 1/4-7 x 4     | -             | 3             | 20       |
| FH816012 | 1-8 x 1 1/2   | -             | 10            | 55       | FH820040  | 1 1/4-7 x 5     | -             | 3             | 15       |
| FH816016 | 1-8 x 2       | -             | 10            | 50       | FH820048  | 1 1/4-7 x 6     | -             | 3             | 15       |
| FH816020 | 1-8 x 2 1/2   | -             | 10            | 45       | FH820056  | 1 1/4-7 x 7     | -             | 3             | 12       |
| FH816024 | 1-8 x 3       | -             | 10            | 40       | FH820064  | 1 1/4-7 x 8     | -             | 3             | 10       |
| FH816028 | 1-8 x 3 1/2   | -             | 3             | 35       | FH820072  | 1 1/4-7 x 9     | -             | 3             | 10       |
| FH816032 | 1-8 x 4       | -             | 3             | 35       | FH820080  | 1 1/4-7 x 10    | -             | 3             | 10       |
| FH816036 | 1-8 x 4 1/2   | -             | 3             | 30       | FH820088  | 1 1/4-7 x 11    | -             | 3             | 9        |
| FH816040 | 1-8 x 5       | -             | 3             | 25       | FH820096  | 1 1/4-7 x 12    | -             | 3             | 8        |
| FH816044 | 1-8 x 5 1/2   | -             | 3             | 25       | FH8I24032 | 1 1/2-6 x 4*    | -             | 3             | 10       |
| FH816048 | 1-8 x 6       | -             | 3             | 25       | FH8I24048 | 1 1/2-6 x 6*    | -             | 3             | 8        |
| FH816052 | 1-8 x 6 1/2   | -             | 3             | 20       | *Import   |                 |               |               |          |
| FH816056 | 1-8 x 7       | -             | 3             | 20       |           |                 |               |               |          |

## GRADE 8 • COARSE THREAD • PLAIN FINISH • MADE IN USA OR CANADA

| Part #    | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-----------|-----------------|---------------|---------------|----------|
| FH8P09064 | 9/16-12 x 8     | -             | 5             | 75       |
| FH8P12044 | 3/4-10 x 5 1/2  | 3             | 15            | 45       |
| FH8P14052 | 7/8-9 x 6 1/2   | -             | 3             | 30       |
| FH8P16040 | 1-8 x 5         | -             | 3             | 25       |
| FH8P24036 | 1 1/2-6 x 4 1/2 | -             | 3             | 12       |



# HEX CAP SCREWS

GRADE 8 • FINE THREAD • YELLOW ZINC PLATED • MADE IN USA OR CANADA



| Part #    | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #    | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-----------|-----------------|---------------|---------------|----------|-----------|-----------------|---------------|---------------|----------|
| FH8F04004 | 1/4-28 x 1/2    | 20            | 100           | 3300     | FH8F06010 | 3/8-24 x 1 1/4  | 20            | 100           | 800      |
| FH8F04006 | 1/4-28 x 3/4    | 20            | 100           | 2700     | FH8F06012 | 3/8-24 x 1 1/2  | 20            | 100           | 675      |
| FH8F04008 | 1/4-28 x 1      | 20            | 100           | 2200     | FH8F06014 | 3/8-24 x 1 3/4  | 20            | 100           | 600      |
| FH8F04010 | 1/4-28 x 1 1/4  | 20            | 100           | 1900     | FH8F06016 | 3/8-24 x 2      | 20            | 100           | 550      |
| FH8F04012 | 1/4-28 x 1 1/2  | 20            | 100           | 1600     | FH8F06018 | 3/8-24 x 2 1/4  | 10            | 50            | 450      |
| FH8F04014 | 1/4-28 x 1 3/4  | 20            | 100           | 1400     | FH8F06020 | 3/8-24 x 2 1/2  | 10            | 50            | 400      |
| FH8F04016 | 1/4-28 x 2      | 20            | 100           | 1200     | FH8F06022 | 3/8-24 x 2 3/4  | 10            | 50            | 400      |
| FH8F04020 | 1/4-28 x 2 1/2  | 20            | 100           | 900      | FH8F06024 | 3/8-24 x 3      | 10            | 50            | 325      |
| FH8F04024 | 1/4-28 x 3      | 20            | 100           | 750      | FH8F06026 | 3/8-24 x 3 1/4  | 10            | 50            | 325      |
| FH8F04028 | 1/4-28 x 3 1/2  | 20            | 100           | 550      | FH8F06028 | 3/8-24 x 3 1/2  | 10            | 50            | 300      |
| FH8F04032 | 1/4-28 x 4      | 20            | 100           | 450      | FH8F06030 | 3/8-24 x 3 3/4  | 10            | 50            | 250      |
| FH8F04036 | 1/4-28 x 4 1/2  | 10            | 50            | 450      | FH8F06032 | 3/8-24 x 4      | 10            | 50            | 250      |
| FH8F04040 | 1/4-28 x 5      | 10            | 50            | 400      | FH8F06036 | 3/8-24 x 4 1/2  | 10            | 50            | 225      |
| FH8F04048 | 1/4-28 x 6      | 10            | 50            | 350      | FH8F06040 | 3/8-24 x 5      | 10            | 50            | 225      |
| FH8F05004 | 5/16-24 x 1/2   | 20            | 100           | 1950     | FH8F06044 | 3/8-24 x 5 1/2  | 10            | 50            | 175      |
| FH8F05006 | 5/16-24 x 3/4   | 20            | 100           | 1650     | FH8F06048 | 3/8-24 x 6      | 10            | 50            | 175      |
| FH8F05008 | 5/16-24 x 1     | 20            | 100           | 1400     | FH8F07006 | 7/16-20 x 3/4   | 10            | 50            | 750      |
| FH8F05010 | 5/16-24 x 1 1/4 | 20            | 100           | 1100     | FH8F07008 | 7/16-20 x 1     | 10            | 50            | 650      |
| FH8F05012 | 5/16-24 x 1 1/2 | 20            | 100           | 1000     | FH8F07010 | 7/16-20 x 1 1/4 | 10            | 50            | 550      |
| FH8F05014 | 5/16-24 x 1 3/4 | 20            | 100           | 850      | FH8F07012 | 7/16-20 x 1 1/2 | 10            | 50            | 500      |
| FH8F05016 | 5/16-24 x 2     | 20            | 100           | 800      | FH8F07014 | 7/16-20 x 1 3/4 | 10            | 50            | 450      |
| FH8F05018 | 5/16-24 x 2 1/4 | 20            | 100           | 700      | FH8F07016 | 7/16-20 x 2     | 10            | 50            | 400      |
| FH8F05020 | 5/16-24 x 2 1/2 | 20            | 100           | 600      | FH8F07018 | 7/16-20 x 2 1/4 | 10            | 50            | 350      |
| FH8F05022 | 5/16-24 x 2 3/4 | 20            | 100           | 550      | FH8F07020 | 7/16-20 x 2 1/2 | 10            | 50            | 300      |
| FH8F05024 | 5/16-24 x 3     | 20            | 100           | 500      | FH8F07024 | 7/16-20 x 3     | 10            | 50            | 275      |
| FH8F05028 | 5/16-24 x 3 1/2 | 10            | 50            | 450      | FH8F07028 | 7/16-20 x 3 1/2 | 5             | 25            | 225      |
| FH8F05032 | 5/16-24 x 4     | 10            | 50            | 400      | FH8F07032 | 7/16-20 x 4     | 5             | 25            | 200      |
| FH8F05036 | 5/16-24 x 4 1/2 | 10            | 50            | 300      | FH8F07036 | 7/16-20 x 4 1/2 | 5             | 25            | 175      |
| FH8F05040 | 5/16-24 x 5     | 10            | 50            | 250      | FH8F07040 | 7/16-20 x 5     | 5             | 25            | 150      |
| FH8F05048 | 5/16-24 x 6     | 10            | 50            | 250      | FH8F08006 | 1/2-20 x 3/4    | 10            | 50            | 475      |
| FH8F06004 | 3/8-24 x 1/2    | 20            | 100           | 1300     | FH8F08008 | 1/2-20 x 1      | 10            | 50            | 400      |
| FH8F06006 | 3/8-24 x 3/4    | 20            | 100           | 1100     | FH8F08010 | 1/2-20 x 1 1/4  | 10            | 50            | 375      |
| FH8F06008 | 3/8-24 x 1      | 20            | 100           | 900      |           |                 |               |               |          |

\*Plain Finish \*\*Silver Zinc

## GRADE 8 • FINE THREAD • YELLOW ZINC PLATED • MADE IN USA OR CANADA

| Part #    | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #     | Size             | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-----------|-----------------|---------------|---------------|----------|------------|------------------|---------------|---------------|----------|
| FH8F08012 | 1/2-20 x 1 1/2  | 10            | 50            | 300      | FH8F10056  | 5/8-18 x 7       | -             | 5             | 55       |
| FH8F08014 | 1/2-20 x 1 3/4  | 10            | 50            | 275      | FH8F12008  | 3/4-16 x 1       | 4             | 20            | 150      |
| FH8F08016 | 1/2-20 x 2      | 10            | 50            | 250      | FH8F12012  | 3/4-16 x 1 1/2   | 4             | 20            | 125      |
| FH8F08018 | 1/2-20 x 2 1/4  | 10            | 50            | 225      | FH8F12016  | 3/4-16 x 2       | 4             | 20            | 100      |
| FH8F08020 | 1/2-20 x 2 1/2  | 10            | 50            | 225      | FH8F12018  | 3/4-16 x 2 1/4   | 4             | 20            | 90       |
| FH8F08022 | 1/2-20 x 2 3/4  | 10            | 50            | 200      | FH8F12020  | 3/4-16 x 2 1/2   | 4             | 20            | 90       |
| FH8F08024 | 1/2-20 x 3      | 10            | 50            | 200      | FH8F12022  | 3/4-16 x 2 3/4   | 4             | 20            | 85       |
| FH8F08026 | 1/2-20 x 3 1/4  | 5             | 25            | 175      | FH8F12024  | 3/4-16 x 3       | 4             | 20            | 80       |
| FH8F08028 | 1/2-20 x 3 1/2  | 5             | 25            | 150      | FH8F12026Z | 3/4-16 x 3 1/4** | 4             | 20            | 75       |
| FH8F08032 | 1/2-20 x 4      | 5             | 25            | 150      | FH8F12028  | 3/4-16 x 3 1/2   | 4             | 20            | 70       |
| FH8F08036 | 1/2-20 x 4 1/2  | 5             | 25            | 125      | FH8F12032  | 3/4-16 x 4       | 3             | 15            | 60       |
| FH8F08040 | 1/2-20 x 5      | 5             | 25            | 125      | FH8F12036  | 3/4-16 x 4 1/2   | 3             | 15            | 55       |
| FH8F08044 | 1/2-20 x 5 1/2  | 5             | 25            | 100      | FH8F12040  | 3/4-16 x 5       | 3             | 15            | 45       |
| FH8F08048 | 1/2-20 x 6      | 5             | 25            | 100      | FH8F12044  | 3/4-16 x 5 1/2   | 3             | 15            | 45       |
| FH8F09008 | 9/16-18 x 1     | 5             | 25            | 350      | FH8F12048  | 3/4-16 x 6       | -             | 5             | 40       |
| FH8F09012 | 9/16-18 x 1 1/2 | 5             | 25            | 275      | FH8F12056  | 3/4-16 x 7       | -             | 5             | 35       |
| FH8F09014 | 9/16-18 x 1 3/4 | 5             | 25            | 250      | FH8F12064  | 3/4-16 x 8       | -             | 5             | 35       |
| FH8F09016 | 9/16-18 x 2     | 5             | 25            | 225      | FH8F14016  | 7/8-14 x 2       | -             | 15            | 75       |
| FH8F09020 | 9/16-18 x 2 1/2 | 5             | 25            | 175      | FH8F14020  | 7/8-14 x 2 1/2   | -             | 15            | 65       |
| FH8F09024 | 9/16-18 x 3     | 5             | 25            | 150      | FH8F14024  | 7/8-14 x 3       | -             | 15            | 55       |
| FH8F09028 | 9/16-18 x 3 1/2 | 5             | 25            | 125      | FH8F14028  | 7/8-14 x 3 1/2   | -             | 3             | 50       |
| FH8F09032 | 9/16-18 x 4     | 5             | 25            | 100      | FH8F14032  | 7/8-14 x 4       | -             | 3             | 45       |
| FH8F09036 | 9/16-18 x 4 1/2 | 5             | 25            | 100      | FH8F14036  | 7/8-14 x 4 1/2   | -             | 3             | 40       |
| FH8F09040 | 9/16-18 x 5     | 5             | 25            | 75       | FH8F14040  | 7/8-14 x 5       | -             | 3             | 35       |
| FH8F09048 | 9/16-18 x 6     | 5             | 25            | 75       | FH8F14044  | 7/8-14 x 5 1/2   | -             | 3             | 35       |
| FH8F10008 | 5/8-18 x 1      | 5             | 25            | 250      | FH8F14048  | 7/8-14 x 6       | -             | 3             | 30       |
| FH8F10010 | 5/8-18 x 1 1/4  | 5             | 25            | 225      | FH8F14052  | 7/8-14 x 6 1/2   | -             | 3             | 30       |
| FH8F10012 | 5/8-18 x 1 1/2  | 5             | 25            | 200      | FH8F14064  | 7/8-14 x 8       | -             | 3             | 25       |
| FH8F10014 | 5/8-18 x 1 3/4  | 5             | 25            | 175      | FH8F16016  | 1-14 x 2         | -             | 10            | 50       |
| FH8F10016 | 5/8-18 x 2      | 5             | 25            | 175      | FH8F16020  | 1-14 x 2 1/2     | -             | 10            | 45       |
| FH8F10018 | 5/8-18 x 2 1/4  | 5             | 25            | 150      | FH8F16024  | 1-14 x 3         | -             | 10            | 40       |
| FH8F10020 | 5/8-18 x 2 1/2  | 5             | 25            | 125      | FH8F16028  | 1-14 x 3 1/2     | -             | 3             | 35       |
| FH8F10024 | 5/8-18 x 3      | 5             | 25            | 100      | FH8FP16028 | 1-14 x 3 1/2*    | -             | 10            | 35       |
| FH8F10028 | 5/8-18 x 3 1/2  | 5             | 25            | 100      | FH8F16032  | 1-14 x 4         | -             | 3             | 35       |
| FH8F10032 | 5/8-18 x 4      | 5             | 25            | 90       | FH8F16040  | 1-14 x 5         | -             | 3             | 25       |
| FH8F10036 | 5/8-18 x 4 1/2  | 4             | 20            | 80       | FH8F16048  | 1-14 x 6         | -             | 3             | 25       |
| FH8F10040 | 5/8-18 x 5      | 4             | 20            | 75       | FH8F16064  | 1-14 x 8         | -             | 3             | 18       |
| FH8F10044 | 5/8-18 x 5 1/2  | 4             | 20            | 70       |            |                  |               |               |          |
| FH8F10048 | 5/8-18 x 6      | 4             | 20            | 65       |            |                  |               |               |          |

\*Plain Finish \*\*Silver Zinc

## HEX CAP SCREWS

### GRADE 9 • COARSE THREAD • YELLOW ZINC PLATED • MADE IN USA

Hex Cap Screws Grade 9 are made with a high head and have a minimum tensile strength of 180,000 psi.



| Part #   | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #   | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|----------|----------------|---------------|---------------|----------|----------|----------------|---------------|---------------|----------|
| FH908012 | 1/2-13 x 1 1/2 | 10            | 50            | 400      | FH910016 | 5/8-11 x 2     | 5             | 25            | 200      |
| FH908014 | 1/2-13 x 1 3/4 | 10            | 50            | 400      | FH910020 | 5/8-11 x 2 1/2 | 5             | 25            | 150      |
| FH908016 | 1/2-13 x 2     | 10            | 50            | 300      | FH910024 | 5/8-11 x 3     | 5             | 25            | 150      |
| FH908018 | 1/2-13 x 2 1/4 | 10            | 50            | 300      | FH910028 | 5/8-11 x 3 1/2 | 5             | 25            | 100      |
| FH908020 | 1/2-13 x 2 1/2 | 10            | 50            | 325      | FH910032 | 5/8-11 x 4     | 5             | 25            | 125      |
| FH908024 | 1/2-13 x 3     | 10            | 50            | 300      | FH910036 | 5/8-11 x 4 1/2 | 4             | 20            | 100      |
| FH908028 | 1/2-13 x 3 1/2 | 5             | 25            | 200      | FH910040 | 5/8-11 x 5     | 5             | 25            | 100      |
| FH908032 | 1/2-13 x 4     | 5             | 25            | 200      | FH910044 | 5/8-11 x 5 1/2 | 4             | 20            | 75       |
| FH908048 | 1/2-13 x 6     | 5             | 25            | 150      | FH910048 | 5/8-11 x 6     | 4             | 20            | 75       |
| FH910012 | 5/8-11 x 1 1/2 | 5             | 25            | 300      | FH912032 | 3/4-10 x 4     | 3             | 15            | 85       |

### 18/8 STAINLESS STEEL • COARSE THREAD • IMPORTED

18-8 Stainless Steel Hex Cap Screws have a tensile strength of 100,000-125,000 psi and a minimum Rockwell hardness of B100.



| Part #    | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #    | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-----------|----------------|---------------|---------------|----------|-----------|----------------|---------------|---------------|----------|
| FSSH04003 | 1/4-20 x 3/8   | 20            | 100           | 3300     | FSSH04024 | 1/4-20 x 3     | 20            | 100           | 750      |
| FSSH04004 | 1/4-20 x 1/2   | 20            | 100           | 2500     | FSSH04026 | 1/4-20 x 3 1/4 | 10            | 50            | 600      |
| FSSH04005 | 1/4-20 x 5/8   | 20            | 100           | 2000     | FSSH04028 | 1/4-20 x 3 1/2 | 20            | 100           | 550      |
| FSSH04006 | 1/4-20 x 3/4   | 20            | 100           | 2700     | FSSH04030 | 1/4-20 x 3 3/4 | 20            | 100           | 500      |
| FSSH04008 | 1/4-20 x 1     | 20            | 100           | 1600     | FSSH04032 | 1/4-20 x 4     | 20            | 100           | 450      |
| FSSH04010 | 1/4-20 x 1 1/4 | 20            | 100           | 1900     | FSSH04036 | 1/4-20 x 4 1/2 | 10            | 50            | 450      |
| FSSH04012 | 1/4-20 x 1 1/2 | 20            | 100           | 1600     | FSSH04040 | 1/4-20 x 5     | 10            | 50            | 300      |
| FSSH04014 | 1/4-20 x 1 3/4 | 20            | 100           | 1400     | FSSH04044 | 1/4-20 x 5 1/2 | 10            | 50            | 300      |
| FSSH04016 | 1/4-20 x 2     | 20            | 100           | 800      | FSSH05004 | 5/16-18 x 1/2  | 20            | 100           | 1950     |
| FSSH04018 | 1/4-20 x 2 1/4 | 20            | 100           | 1000     | FSSH05005 | 5/16-18 x 5/8  | 20            | 100           | 1800     |
| FSSH04020 | 1/4-20 x 2 1/2 | 20            | 100           | 900      | FSSH05006 | 5/16-18 x 3/4  | 20            | 100           | 1150     |
| FSSH04022 | 1/4-20 x 2 3/4 | 20            | 100           | 450      | FSSH05007 | 5/16-18 x 7/8  | 20            | 100           | 1500     |

## 18/8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #    | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #    | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-----------|-----------------|---------------|---------------|----------|-----------|-----------------|---------------|---------------|----------|
| FSSH05008 | 5/16-18 x 1     | 20            | 100           | 1400     | FSSH07010 | 7/16-14 x 1 1/4 | 10            | 50            | 550      |
| FSSH05010 | 5/16-18 x 1 1/4 | 20            | 100           | 600      | FSSH07012 | 7/16-14 x 1 1/2 | 5             | 25            | 500      |
| FSSH05012 | 5/16-18 x 1 1/2 | 20            | 100           | 1000     | FSSH07016 | 7/16-14 x 2     | 5             | 25            | 400      |
| FSSH05014 | 5/16-18 x 1 3/4 | 20            | 100           | 650      | FSSH07020 | 7/16-14 x 2 1/2 | 5             | 25            | 300      |
| FSSH05016 | 5/16-18 x 2     | 20            | 100           | 600      | FSSH07024 | 7/16-14 x 3     | 5             | 25            | 275      |
| FSSH05018 | 5/16-18 x 2 1/4 | 20            | 100           | 700      | FSSH07028 | 7/16-14 x 3 1/2 | 5             | 25            | 225      |
| FSSH05020 | 5/16-18 x 2 1/2 | 20            | 100           | 450      | FSSH07032 | 7/16-14 x 4     | 5             | 25            | 200      |
| FSSH05022 | 5/16-18 x 2 3/4 | 20            | 100           | 550      | FSSH08006 | 1/2-13 x 3/4    | 20            | 100           | 475      |
| FSSH05024 | 5/16-18 x 3     | 20            | 100           | 350      | FSSH08008 | 1/2-13 x 1      | 10            | 50            | 400      |
| FSSH05026 | 5/16-18 x 3 1/4 | 10            | 50            | 450      | FSSH08010 | 1/2-13 x 1 1/4  | 10            | 50            | 375      |
| FSSH05028 | 5/16-18 x 3 1/2 | 10            | 50            | 450      | FSSH08012 | 1/2-13 x 1 1/2  | 10            | 50            | 300      |
| FSSH05032 | 5/16-18 x 4     | 10            | 50            | 400      | FSSH08014 | 1/2-13 x 1 3/4  | 10            | 50            | 275      |
| FSSH05036 | 5/16-18 x 4 1/2 | 10            | 50            | 300      | FSSH08016 | 1/2-13 x 2      | 10            | 50            | 250      |
| FSSH05040 | 5/16-18 x 5     | 10            | 50            | 250      | FSSH08020 | 1/2-13 x 2 1/2  | 10            | 50            | 225      |
| FSSH05044 | 5/16-18 x 5 1/2 | 10            | 50            | 250      | FSSH08022 | 1/2-13 x 2 3/4  | 10            | 50            | 225      |
| FSSH05048 | 5/16-18 x 6     | 10            | 50            | 250      | FSSH08024 | 1/2-13 x 3      | 10            | 50            | 150      |
| FSSH06004 | 3/8-16 x 1/2    | 20            | 100           | 1300     | FSSH08028 | 1/2-13 x 3 1/2  | 5             | 25            | 125      |
| FSSH06005 | 3/8-16 x 5/8    | 20            | 100           | 1250     | FSSH08032 | 1/2-13 x 4      | 5             | 25            | 100      |
| FSSH06006 | 3/8-16 x 3/4    | 20            | 100           | 1100     | FSSH08036 | 1/2-13 x 4 1/2  | 5             | 25            | 125      |
| FSSH06008 | 3/8-16 x 1      | 20            | 100           | 900      | FSSH08040 | 1/2-13 x 5      | 5             | 25            | 125      |
| FSSH06010 | 3/8-16 x 1 1/4  | 20            | 100           | 800      | FSSH08044 | 1/2-13 x 5 1/2  | 5             | 25            | 100      |
| FSSH06012 | 3/8-16 x 1 1/2  | 20            | 100           | 675      | FSSH08048 | 1/2-13 x 6      | 5             | 25            | 100      |
| FSSH06014 | 3/8-16 x 1 3/4  | 20            | 100           | 600      | FSSH08056 | 1/2-13 x 7      | -             | 10            | 90       |
| FSSH06016 | 3/8-16 x 2      | 20            | 100           | 550      | FSSH08060 | 1/2-13 x 7 1/2  | -             | 10            | 80       |
| FSSH06018 | 3/8-16 x 2 1/4  | 10            | 50            | 450      | FSSH08064 | 1/2-13 x 8      | -             | 10            | 80       |
| FSSH06020 | 3/8-16 x 2 1/2  | 10            | 50            | 325      | FSSH08072 | 1/2-13 x 9      | -             | 10            | 75       |
| FSSH06022 | 3/8-16 x 2 3/4  | 10            | 50            | 400      | FSSH08080 | 1/2-13 x 10     | -             | 10            | 65       |
| FSSH06024 | 3/8-16 x 3      | 10            | 50            | 250      | FSSH10008 | 5/8-11 x 1      | 5             | 25            | 250      |
| FSSH06026 | 3/8-16 x 3 1/4  | 10            | 50            | 325      | FSSH10010 | 5/8-11 x 1 1/4  | 5             | 25            | 225      |
| FSSH06028 | 3/8-16 x 3 1/2  | 10            | 50            | 300      | FSSH10012 | 5/8-11 x 1 1/2  | 5             | 25            | 200      |
| FSSH06032 | 3/8-16 x 4      | 10            | 50            | 250      | FSSH10014 | 5/8-11 x 1 3/4  | 5             | 25            | 175      |
| FSSH06036 | 3/8-16 x 4 1/2  | 10            | 50            | 225      | FSSH10016 | 5/8-11 x 2      | 5             | 25            | 175      |
| FSSH06040 | 3/8-16 x 5      | 10            | 50            | 225      | FSSH10020 | 5/8-11 x 2 1/2  | 5             | 25            | 125      |
| FSSH06044 | 3/8-16 x 5 1/2  | 10            | 50            | 175      | FSSH10024 | 5/8-11 x 3      | 5             | 25            | 100      |
| FSSH06048 | 3/8-16 x 6      | 10            | 50            | 175      | FSSH10028 | 5/8-11 x 3 1/2  | 5             | 25            | 100      |
| FSSH06052 | 3/8-16 x 6 1/2  | -             | 10            | 175      | FSSH10032 | 5/8-11 x 4      | 5             | 25            | 90       |
| FSSH06056 | 3/8-16 x 7      | -             | 10            | 150      | FSSH10036 | 5/8-11 x 4 1/2  | 4             | 20            | 50       |
| FSSH06064 | 3/8-16 x 8      | -             | 10            | 150      | FSSH10040 | 5/8-11 x 5      | 4             | 20            | 50       |
| FSSH07006 | 7/16-14 x 3/4   | 5             | 25            | 750      | FSSH10044 | 5/8-11 x 5 1/2  | 4             | 20            | 70       |
| FSSH07008 | 7/16-14 x 1     | 5             | 25            | 650      | FSSH10048 | 5/8-11 x 6      | 4             | 20            | 65       |



# HEX CAP SCREWS

## 18/8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #    | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #    | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-----------|----------------|---------------|---------------|----------|-----------|----------------|---------------|---------------|----------|
| FSSH10064 | 5/8-11 x 8     | -             | 5             | 50       | FSSH12028 | 3/4-10 x 3 1/2 | 4             | 20            | 70       |
| FSSH12012 | 3/4-10 x 1 1/2 | 4             | 20            | 125      | FSSH12032 | 3/4-10 x 4     | 3             | 15            | 60       |
| FSSH12016 | 3/4-10 x 2     | 4             | 20            | 100      | FSSH12060 | 3/4-10 x 7 1/2 | -             | 5             | 35       |
| FSSH12020 | 3/4-10 x 2 1/2 | 4             | 20            | 90       | FSSH16060 | 1-8 x 7 1/2    | -             | 3             | 20       |
| FSSH12024 | 3/4-10 x 3     | 4             | 20            | 80       |           |                |               |               |          |



## 18/8 STAINLESS STEEL • FINE THREAD • IMPORTED

| Part #     | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #     | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|------------|-----------------|---------------|---------------|----------|------------|-----------------|---------------|---------------|----------|
| FSSHF04008 | 1/4-28 x 1      | 20            | 100           | 2200     | FSSHF06016 | 3/8-24 x 2      | 20            | 100           | 550      |
| FSSHF04012 | 1/4-28 x 1 1/2  | 20            | 100           | 1600     | FSSHF06024 | 3/8-24 x 3      | 10            | 50            | 325      |
| FSSHF05006 | 5/16-24 x 3/4   | 20            | 100           | 1650     | FSSHF07008 | 7/16-20 x 1     | 10            | 50            | 650      |
| FSSHF05008 | 5/16-24 x 1     | 20            | 100           | 1400     | FSSHF07012 | 7/16-20 x 1 1/2 | 10            | 50            | 500      |
| FSSHF05012 | 5/16-24 x 1 1/2 | 20            | 100           | 1000     | FSSHF07016 | 7/16-20 x 2     | 10            | 50            | 400      |
| FSSHF05016 | 5/16-24 x 2     | 20            | 100           | 800      | FSSHF08008 | 1/2-20 x 1      | 10            | 50            | 400      |
| FSSHF06008 | 3/8-24 x 1      | 20            | 100           | 900      | FSSHF08012 | 1/2-20 x 1 1/2  | 10            | 50            | 300      |
| FSSHF06010 | 3/8-24 x 1 1/4  | 20            | 100           | 800      | FSSHF08016 | 1/2-20 x 2      | 10            | 50            | 250      |
| FSSHF06012 | 3/8-24 x 1 1/2  | 20            | 100           | 675      | FSSHF10012 | 5/8-18 x 1 1/2  | 5             | 25            | 200      |
| FSSHF06014 | 3/8-24 x 1 3/4  | 20            | 100           | 600      | FSSHF10016 | 5/8-18 x 2      | 5             | 25            | 175      |

CARRIAGE BOLTS

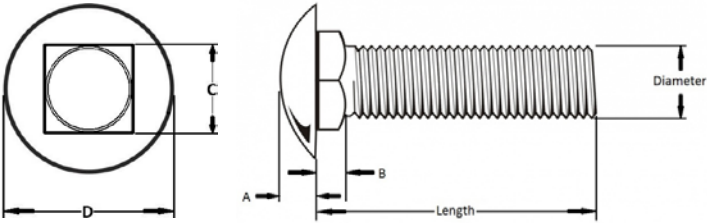
TECHNICAL INFORMATION

ROCKWELL HARDNESS

| Grade | Core Hardness Rockwell |
|-------|------------------------|
| A307  | B69-B100               |
| 5     | C25-C34                |
| 8     | C33- C39               |

TENSILE STRENGTHS

| Diameter | Grade A307 | Grade 5 | Grade 8 |
|----------|------------|---------|---------|
| 1/4-20   | 1900       | 3800    | 4750    |
| 5/16-18  | 3100       | 6300    | 7850    |
| 3/8-16   | 4650       | 9300    | 11600   |
| 7/16-14  | 6350       | 12800   | 15900   |
| 1/2-13   | 8500       | 17000   | 21300   |
| 9/16-12  | 11000      | 21800   | 27300   |
| 5/8-11   | 13550      | 27100   | 33900   |
| 3/4-10   | 20050      | 40100   | 50100   |
| 7/8-9    | 27700      | 55400   | 69300   |
| 1-8      | 36350      | 72700   | 90900   |



DIMENSIONS

| Diameter | Max   | A | Min   | Max   | B | Min   | Max   | C | Min   | Max   | D | Min   |
|----------|-------|---|-------|-------|---|-------|-------|---|-------|-------|---|-------|
| 10-24    | 0.114 |   | 0.094 | 0.125 |   | 0.094 | 0.199 |   | 0.185 | 0.469 |   | 0.436 |
| 1/4-20   | 0.145 |   | 0.125 | 0.156 |   | 0.125 | 0.26  |   | 0.245 | 0.594 |   | 0.563 |
| 5/16-18  | 0.178 |   | 0.156 | 0.187 |   | 0.156 | 0.324 |   | 0.307 | 0.719 |   | 0.688 |
| 3/8-16   | 0.208 |   | 0.188 | 0.219 |   | 0.188 | 0.388 |   | 0.368 | 0.844 |   | 0.782 |
| 7/16-14  | 0.23  |   | 0.219 | 0.25  |   | 0.219 | 0.452 |   | 0.431 | 0.969 |   | 0.907 |
| 1/2-13   | 0.27  |   | 0.25  | 0.281 |   | 0.25  | 0.515 |   | 0.492 | 1.094 |   | 1.032 |
| 5/8-11   | 0.344 |   | 0.313 | 0.344 |   | 0.313 | 0.642 |   | 0.616 | 1.344 |   | 1.219 |
| 3/4-10   | 0.406 |   | 0.375 | 0.406 |   | 0.375 | 0.768 |   | 0.741 | 1.594 |   | 1.469 |

# CARRIAGE BOLTS

## CARRIAGE BOLTS

### GRADE 307A • COARSE THREAD • ZINC PLATED • IMPORTED

Carriage Bolts Grade A307 are manufactured to ASTM A307 Grade A specs. They have a minimum tensile strength of 60,000 psi.



| Part #   | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #  | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|----------|----------------|---------------|---------------|----------|---------|-----------------|---------------|---------------|----------|
| FC201004 | #10-24 x 1/2   | 20            | 100           | 6250     | FC20472 | 1/4-20 x 9      | -             | 10            | 200      |
| FC201005 | #10-24 x 5/8   | 20            | 100           | 5500     | FC20480 | 1/4-20 x 10     | -             | 10            | 300      |
| FC201006 | #10-24 x 3/4   | 20            | 100           | 5000     | FC20504 | 5/16-18 x 1/2   | 20            | 100           | -        |
| FC201008 | #10-24 x 1     | 20            | 100           | 3500     | FC20506 | 5/16-18 x 3/4   | 20            | 100           | 2000     |
| FC201010 | #10-24 x 1 1/4 | 20            | 100           | 2750     | FC20508 | 5/16-18 x 1     | 20            | 100           | 1625     |
| FC201012 | #10-24 x 1 1/2 | 20            | 100           | 2250     | FC20510 | 5/16-18 x 1 1/4 | 20            | 100           | 1375     |
| FC201014 | #10-24 x 1 3/4 | 20            | 100           | 2000     | FC20512 | 5/16-18 x 1 1/2 | 20            | 100           | 1250     |
| FC201016 | #10-24 x 2     | 20            | 100           | 1750     | FC20514 | 5/16-18 x 1 3/4 | 20            | 100           | 1125     |
| FC201020 | #10-24 x 2 1/2 | 20            | 100           | 2000     | FC20516 | 5/16-18 x 2     | 20            | 100           | 1000     |
| FC20404  | 1/4-20 x 1/2   | 20            | 100           | 3750     | FC20518 | 5/16-18 x 2 1/4 | 20            | 100           | 800      |
| FC20405  | 1/4-20 x 5/8   | 20            | 100           | 3500     | FC20520 | 5/16-18 x 2 1/2 | 20            | 100           | 800      |
| FC20406  | 1/4-20 x 3/4   | 20            | 100           | 3250     | FC20522 | 5/16-18 x 2 3/4 | 20            | 100           | 750      |
| FC20407  | 1/4-20 x 7/8   | 20            | 100           | 3000     | FC20524 | 5/16-18 x 3     | 20            | 100           | 625      |
| FC20408  | 1/4-20 x 1     | 20            | 100           | 2875     | FC20526 | 5/16-18 x 3 1/4 | 10            | 50            | 450      |
| FC20410  | 1/4-20 x 1 1/4 | 20            | 100           | 2500     | FC20528 | 5/16-18 x 3 1/2 | 10            | 50            | 500      |
| FC20412  | 1/4-20 x 1 1/2 | 20            | 100           | 2125     | FC20532 | 5/16-18 x 4     | 10            | 50            | 375      |
| FC20414  | 1/4-20 x 1 3/4 | 20            | 100           | 1500     | FC20534 | 5/16-18 x 4 1/4 | 10            | 50            | 350      |
| FC20416  | 1/4-20 x 2     | 20            | 100           | 1375     | FC20536 | 5/16-18 x 4 1/2 | 10            | 50            | 325      |
| FC20418  | 1/4-20 x 2 1/4 | 20            | 100           | 1200     | FC20540 | 5/16-18 x 5     | 10            | 50            | 300      |
| FC20420  | 1/4-20 x 2 1/2 | 20            | 100           | 1000     | FC20544 | 5/16-18 x 5 1/2 | 10            | 50            | 325      |
| FC20422  | 1/4-20 x 2 3/4 | 20            | 100           | 1000     | FC20548 | 5/16-18 x 6     | 10            | 50            | 225      |
| FC20424  | 1/4-20 x 3     | 20            | 100           | 750      | FC20552 | 5/16-18 x 6 1/2 | -             | 10            | 200      |
| FC20426  | 1/4-20 x 3 1/4 | 20            | 100           | 550      | FC20556 | 5/16-18 x 7     | -             | 10            | 200      |
| FC20428  | 1/4-20 x 3 1/2 | 20            | 100           | 625      | FC20564 | 5/16-18 x 8     | -             | 10            | 175      |
| FC20430  | 1/4-20 x 3 3/4 | 5             | 25            | 575      | FC20572 | 5/16-18 x 9     | -             | 10            | 300      |
| FC20432  | 1/4-20 x 4     | 20            | 100           | 500      | FC20580 | 5/16-18 x 10    | -             | 10            | 175      |
| FC20436  | 1/4-20 x 4 1/2 | 20            | 100           | 500      | FC20606 | 3/8-16 x 3/4    | 20            | 100           | 1250     |
| FC20440  | 1/4-20 x 5     | 10            | 50            | 500      | FC20608 | 3/8-16 x 1      | 20            | 100           | 1000     |
| FC20444  | 1/4-20 x 5 1/2 | 10            | 50            | 450      | FC20610 | 3/8-16 x 1 1/4  | 20            | 100           | 875      |
| FC20448  | 1/4-20 x 6     | 10            | 50            | 450      | FC20612 | 3/8-16 x 1 1/2  | 20            | 100           | 825      |
| FC20452  | 1/4-20 x 6 1/2 | -             | 10            | 425      | FC20614 | 3/8-16 x 1 3/4  | 20            | 100           | 750      |
| FC20456  | 1/4-20 x 7     | -             | 10            | 375      | FC20616 | 3/8-16 x 2      | 20            | 100           | 550      |

## GRADE 307A • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #  | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|---------|-----------------|---------------|---------------|----------|---------|----------------|---------------|---------------|----------|
| FC20618 | 3/8-16 x 2 1/4  | 10            | 50            | 625      | FC20810 | 1/2-13 x 1 1/4 | 10            | 50            | 450      |
| FC20620 | 3/8-16 x 2 1/2  | 10            | 50            | 450      | FC20812 | 1/2-13 x 1 1/2 | 10            | 50            | 400      |
| FC20622 | 3/8-16 x 2 3/4  | 10            | 50            | 500      | FC20814 | 1/2-13 x 1 3/4 | 10            | 50            | 375      |
| FC20624 | 3/8-16 x 3      | 10            | 50            | 450      | FC20816 | 1/2-13 x 2     | 10            | 50            | 350      |
| FC20626 | 3/8-16 x 3 1/4  | 10            | 50            | 400      | FC20818 | 1/2-13 x 2 1/4 | 10            | 50            | 325      |
| FC20628 | 3/8-16 x 3 1/2  | 10            | 50            | 350      | FC20820 | 1/2-13 x 2 1/2 | 10            | 50            | 300      |
| FC20632 | 3/8-16 x 4      | 10            | 50            | 300      | FC20824 | 1/2-13 x 3     | 10            | 50            | 250      |
| FC20636 | 3/8-16 x 4 1/2  | 10            | 50            | 250      | FC20828 | 1/2-13 x 3 1/2 | 5             | 25            | 200      |
| FC20640 | 3/8-16 x 5      | 5             | 25            | 225      | FC20832 | 1/2-13 x 4     | 5             | 25            | 175      |
| FC20644 | 3/8-16 x 5 1/2  | 5             | 25            | 200      | FC20836 | 1/2-13 x 4 1/2 | 5             | 25            | 130      |
| FC20648 | 3/8-16 x 6      | 5             | 25            | 175      | FC20840 | 1/2-13 x 5     | 4             | 20            | 150      |
| FC20652 | 3/8-16 x 6 1/2  | -             | 10            | 175      | FC20844 | 1/2-13 x 5 1/2 | 4             | 20            | 110      |
| FC20656 | 3/8-16 x 7      | -             | 10            | 175      | FC20848 | 1/2-13 x 6     | 4             | 20            | 125      |
| FC20660 | 3/8-16 x 7 1/2  | -             | 10            | 150      | FC20852 | 1/2-13 x 6 1/2 | -             | 10            | 100      |
| FC20664 | 3/8-16 x 8      | -             | 10            | 125      | FC20856 | 1/2-13 x 7     | -             | 10            | 70       |
| FC20672 | 3/8-16 x 9      | -             | 10            | 100      | FC20864 | 1/2-13 x 8     | -             | 10            | 75       |
| FC20680 | 3/8-16 x 10     | -             | 10            | 100      | FC20872 | 1/2-13 x 9     | -             | 10            | 50       |
| FC20688 | 3/8-16 x 11     | -             | 5             | 80       | FC20880 | 1/2-13 x 10    | -             | 10            | 50       |
| FC20696 | 3/8-16 x 12     | -             | 5             | 80       | FC20888 | 1/2-13 x 11    | -             | 5             | 50       |
| FC20708 | 7/16-14 x 1     | 10            | 50            | 675      | FC20896 | 1/2-13 x 12    | -             | 5             | 50       |
| FC20710 | 7/16-14 x 1 1/4 | 10            | 50            | 600      | FC21012 | 5/8-11 x 1 1/2 | 5             | 25            | 200      |
| FC20712 | 7/16-14 x 1 1/2 | 10            | 50            | 550      | FC21016 | 5/8-11 x 2     | 5             | 25            | 130      |
| FC20714 | 7/16-14 x 1 3/4 | 10            | 50            | 500      | FC21020 | 5/8-11 x 2 1/2 | 5             | 25            | 175      |
| FC20716 | 7/16-14 x 2     | 10            | 50            | 450      | FC21024 | 5/8-11 x 3     | 5             | 25            | 125      |
| FC20720 | 7/16-14 x 2 1/2 | 10            | 50            | 300      | FC21028 | 5/8-11 x 3 1/2 | 5             | 25            | 100      |
| FC20724 | 7/16-14 x 3     | 10            | 50            | 325      | FC21032 | 5/8-11 x 4     | 4             | 20            | 100      |
| FC20728 | 7/16-14 x 3 1/2 | 5             | 25            | 300      | FC21036 | 5/8-11 x 4 1/2 | 4             | 20            | 70       |
| FC20732 | 7/16-14 x 4     | 5             | 25            | 250      | FC21040 | 5/8-11 x 5     | 4             | 20            | 75       |
| FC20736 | 7/16-14 x 4 1/2 | 5             | 25            | 225      | FC21044 | 5/8-11 x 5 1/2 | 3             | 15            | 55       |
| FC20740 | 7/16-14 x 5     | 5             | 25            | 175      | FC21048 | 5/8-11 x 6     | 3             | 15            | 50       |
| FC20744 | 7/16-14 x 5 1/2 | 5             | 25            | 150      | FC21052 | 5/8-11 x 6 1/2 | -             | 5             | 75       |
| FC20748 | 7/16-14 x 6     | 5             | 25            | 175      | FC21064 | 5/8-11 x 8     | -             | 5             | 50       |
| FC20808 | 1/2-13 x 1      | 10            | 50            | 500      | FC21216 | 3/4-10 x 2     | 4             | 20            | 120      |

## GRADE 307A • FINE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size          | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|----------|---------------|---------------|---------------|----------|
| FC2F0812 | 1/2-20 x 11/2 | 10            | 50            | 330      |



## CARRIAGE BOLTS

### GRADE 307A • COARSE THREAD • PLAIN FINISH • IMPORTED

| Part #   | Size       | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|----------|------------|---------------|---------------|----------|
| FC2P0416 | 1/4-20 x 2 | 20            | 100           | 1375     |
| FC2P0616 | 3/8-16 x 2 | 10            | 50            | 550      |
| FC2P1024 | 5/8-11 x 3 | 5             | 25            | 125      |



### GRADE 307A • COARSE THREAD • HOT DIP GALVANIZED • IMPORTED

| Part #   | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|----------|-----------------|---------------|---------------|----------|
| FC2G0408 | 1/4-20 x 1      | 20            | 100           | 2875     |
| FC2G0518 | 5/16-18 x 2 1/4 | 20            | 100           | 800      |
| FC2G0624 | 3/8-16 x 3      | 10            | 50            | 450      |
| FC2G0632 | 3/8-16 x 4      | 10            | 50            | 300      |
| FC2G0828 | 1/2-13 x 3 1/2  | 5             | 25            | 200      |
| FC2G0836 | 1/2-13 x 4 1/2  | 5             | 25            | 150      |
| FC2G0872 | 1/2-13 x 9      | 2             | 10            | 50       |
| FC2G0896 | 1/2-13 x 12     | -             | 5             | 50       |



Plain finish carriage bolts are available on request.

### GRADE 5 • COARSE THREAD • ZINC PLATED • MADE IN CANADA OR IMPORTED

Carriage Bolts Grade 5 are manufactured to SAE J429 Grade 5 specs. They have a minimum tensile strength of 120,000 psi.



| Part #  | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #  | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|---------|----------------|---------------|---------------|----------|---------|-----------------|---------------|---------------|----------|
| FC50406 | 1/4-20 x 3/4   | 20            | 100           | 3250     | FC50432 | 1/4-20 x 4      | 20            | 100           | 525      |
| FC50408 | 1/4-20 x 1     | 20            | 100           | 3000     | FC50504 | 5/16-18 x 1/2   | 20            | 100           | -        |
| FC50410 | 1/4-20 x 1 1/4 | 20            | 100           | 2500     | FC50506 | 5/16-18 x 3/4   | 20            | 100           | 1400     |
| FC50412 | 1/4-20 x 1 1/2 | 20            | 100           | 1800     | FC50508 | 5/16-18 x 1     | 20            | 100           | 1100     |
| FC50414 | 1/4-20 x 1 3/4 | 20            | 100           | 1500     | FC50510 | 5/16-18 x 1 1/4 | 20            | 100           | 1375     |
| FC50416 | 1/4-20 x 2     | 20            | 100           | 1375     | FC50512 | 5/16-18 x 1 1/2 | 20            | 100           | 1250     |
| FC50418 | 1/4-20 x 2 1/4 | 20            | 100           | 1200     | FC50514 | 5/16-18 x 1 3/4 | 20            | 100           | 1125     |
| FC50420 | 1/4-20 x 2 1/2 | 20            | 100           | 1000     | FC50516 | 5/16-18 x 2     | 20            | 100           | 1000     |
| FC50424 | 1/4-20 x 3     | 20            | 100           | 750      | FC50518 | 5/16-18 x 2 1/4 | 20            | 100           | 875      |
| FC50426 | 1/4-20 x 3 1/4 | 20            | 100           | 550      | FC50520 | 5/16-18 x 2 1/2 | 20            | 100           | 800      |
| FC50428 | 1/4-20 x 3 1/2 | 20            | 100           | 600      | FC50522 | 5/16-18 x 2 3/4 | 20            | 100           | 400      |

## GRADE 5 • COARSE THREAD • ZINC PLATED • MADE IN CANADA OR IMPORTED

| Part #  | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #  | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|---------|-----------------|---------------|---------------|----------|---------|----------------|---------------|---------------|----------|
| FC50524 | 5/16-18 x 3     | 20            | 100           | 625      | FC50732 | 7/16-14 x 4    | 5             | 25            | 250      |
| FC50526 | 5/16-18 x 3 1/4 | 10            | 50            | 450      | FC50808 | 1/2-13 x 1     | 10            | 50            | 375      |
| FC50528 | 5/16-18 x 3 1/2 | 10            | 50            | 500      | FC50810 | 1/2-13 x 1 1/4 | 10            | 50            | 450      |
| FC50532 | 5/16-18 x 4     | 10            | 50            | 375      | FC50812 | 1/2-13 x 1 1/2 | 10            | 50            | 400      |
| FC50536 | 5/16-18 x 4 1/2 | 10            | 50            | 325      | FC50814 | 1/2-13 x 1 3/4 | 10            | 50            | 375      |
| FC50540 | 5/16-18 x 5     | 10            | 50            | 300      | FC50816 | 1/2-13 x 2     | 10            | 50            | 250      |
| FC50548 | 5/16-18 x 6     | 10            | 50            | 300      | FC50818 | 1/2-13 x 2 1/4 | 10            | 50            | 325      |
| FC50606 | 3/8-16 x 3/4    | 20            | 100           | 1250     | FC50820 | 1/2-13 x 2 1/2 | 10            | 50            | 300      |
| FC50608 | 3/8-16 x 1      | 20            | 100           | 750      | FC50822 | 1/2-13 x 2 3/4 | 10            | 50            | 200      |
| FC50610 | 3/8-16 x 1 1/4  | 20            | 100           | 600      | FC50824 | 1/2-13 x 3     | 10            | 50            | 250      |
| FC50612 | 3/8-16 x 1 1/2  | 20            | 100           | 825      | FC50828 | 1/2-13 x 3 1/2 | 5             | 25            | 125      |
| FC50614 | 3/8-16 x 1 3/4  | 20            | 100           | 500      | FC50832 | 1/2-13 x 4     | 5             | 25            | 125      |
| FC50616 | 3/8-16 x 2      | 20            | 100           | 450      | FC50836 | 1/2-13 x 4 1/2 | 5             | 25            | 130      |
| FC50618 | 3/8-16 x 2 1/4  | 10            | 50            | 400      | FC50840 | 1/2-13 x 5     | 4             | 20            | 150      |
| FC50620 | 3/8-16 x 2 1/2  | 10            | 50            | 450      | FC50844 | 1/2-13 x 5 1/2 | 4             | 20            | -        |
| FC50624 | 3/8-16 x 3      | 10            | 50            | 300      | FC50848 | 1/2-13 x 6     | 4             | 20            | 125      |
| FC50626 | 3/8-16 x 3 1/4  | 10            | 50            | 450      | FC50856 | 1/2-13 x 7     | -             | 4             | 120      |
| FC50628 | 3/8-16 x 3 1/2  | 10            | 50            | 350      | FC51012 | 5/8-11 x 1 1/2 | 5             | 25            | 200      |
| FC50632 | 3/8-16 x 4      | 10            | 50            | 300      | FC51016 | 5/8-11 x 2     | 5             | 25            | 130      |
| FC50636 | 3/8-16 x 4 1/2  | 10            | 50            | 175      | FC51020 | 5/8-11 x 2 1/2 | 5             | 25            | 150      |
| FC50640 | 3/8-16 x 5      | 5             | 25            | 225      | FC51022 | 5/8-11 x 2 3/4 | 5             | 25            | 125      |
| FC50644 | 3/8-16 x 5 1/2  | 5             | 25            | 225      | FC51024 | 5/8-11 x 3     | 5             | 25            | 125      |
| FC50648 | 3/8-16 x 6      | 5             | 25            | 175      | FC51028 | 5/8-11 x 3 1/2 | 5             | 25            | 100      |
| FC50708 | 7/16-14 x 1     | 10            | 50            | 550      | FC51032 | 5/8-11 x 4     | 4             | 20            | 80       |
| FC50710 | 7/16-14 x 1 1/4 | 10            | 50            | 450      | FC51036 | 5/8-11 x 4 1/2 | 4             | 20            | 70       |
| FC50712 | 7/16-14 x 1 1/2 | 10            | 50            | 550      | FC51040 | 5/8-11 x 5     | 4             | 20            | 60       |
| FC50714 | 7/16-14 x 1 3/4 | 10            | 50            | 500      | FC51048 | 5/8-11 x 6     | 3             | 15            | 60       |
| FC50716 | 7/16-14 x 2     | 10            | 50            | 325      | FC51224 | 3/4-10 x 3     | 4             | 20            | 85       |
| FC50718 | 7/16-14 x 2 1/4 | 10            | 50            | 400      | FC51232 | 3/4-10 x 4     | 4             | 20            | 75       |
| FC50720 | 7/16-14 x 2 1/2 | 10            | 50            | 275      | FC51236 | 3/4-10 x 4 1/2 | 3             | 4             | 60       |
| FC50724 | 7/16-14 x 3     | 10            | 50            | -        | FC51240 | 3/4-10 x 5     | -             | 4             | 60       |
| FC50728 | 7/16-14 x 3 1/2 | 5             | 25            | 300      | FC51248 | 3/4-10 x 6     | -             | 4             | 60       |

## GRADE 5 • COARSE THREAD • PLAIN FINISH • MADE IN CANADA OR IMPORTED

| Part #   | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|----------|-----------------|---------------|---------------|----------|
| FC5P0518 | 5/16-18 x 2 1/4 | 20            | 100           | 800      |
| FC5P0520 | 5/16-18 x 2 1/2 | 20            | 100           | 650      |



# CARRIAGE BOLTS

## GRADE 8 • COARSE THREAD • ZINC PLATED • IMPORTED

Carriage Bolts Grade 8 are manufactured to SAE J429 Grade 8 specs. They have a minimum tensile strength of 150,000 psi.

| Part #  | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|---------|----------------|---------------|---------------|----------|
| FC80812 | 1/2-13 x 1 1/2 | 10            | 50            | 450      |
| FC80816 | 1/2-13 x 2     | 10            | 50            | 300      |
| FC80820 | 1/2-13 x 2 1/2 | 10            | 50            | 305      |
| FC81016 | 5/8-11 x 2     | 5             | 25            | 160      |
| FC81020 | 5/8-11 x 2 1/2 | 5             | 25            | 120      |



## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

18-8 Stainless Carriage Bolts have a tensile strength of 100,000-125,000 psi and a minimum Rockwell hardness of B100.



| Part #  | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|---------|-----------------|---------------|---------------|----------|
| FSSC302 | #10-24 x 1/2    | 20            | 100           | 2500     |
| FSSC304 | #10-24 x 1      | 20            | 100           | 3500     |
| FSSC402 | 1/4-20 x 1/2    | 20            | 100           | 3750     |
| FSSC403 | 1/4-20 x 3/4    | 20            | 100           | 3250     |
| FSSC404 | 1/4-20 x 1      | 20            | 100           | 3000     |
| FSSC405 | 1/4-20 x 1 1/4  | 20            | 100           | 2500     |
| FSSC406 | 1/4-20 x 1 1/2  | 20            | 100           | 2125     |
| FSSC407 | 1/4-20 x 1 3/4  | 20            | 100           | 1500     |
| FSSC408 | 1/4-20 x 2      | 20            | 100           | 750      |
| FSSC409 | 1/4-20 x 2 1/4  | 20            | 100           | 650      |
| FSSC410 | 1/4-20 x 2 1/2  | 20            | 100           | 700      |
| FSSC411 | 1/4-20 x 2 3/4  | 20            | 100           | 700      |
| FSSC412 | 1/4-20 x 3      | 20            | 100           | 900      |
| FSSC414 | 1/4-20 x 3 1/2  | 20            | 100           | 375      |
| FSSC415 | 1/4-20 x 3 3/4  | 20            | 100           | 500      |
| FSSC416 | 1/4-20 x 4      | 20            | 100           | 300      |
| FSSC503 | 5/16-18 x 3/4   | 20            | 100           | 2000     |
| FSSC504 | 5/16-18 x 1     | 20            | 100           | 1600     |
| FSSC505 | 5/16-18 x 1 1/4 | 20            | 100           | 1375     |
| FSSC506 | 5/16-18 x 1 1/2 | 20            | 100           | 750      |
| FSSC507 | 5/16-18 x 1 3/4 | 20            | 100           | 1125     |
| FSSC508 | 5/16-18 x 2     | 20            | 100           | 500      |
| FSSC509 | 5/16-18 x 2 1/4 | 20            | 100           | 450      |
| FSSC510 | 5/16-18 x 2 1/2 | 20            | 100           | 400      |
| FSSC511 | 5/16-18 x 2 3/4 | 20            | 100           | 375      |

| Part #   | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|----------|-----------------|---------------|---------------|----------|
| FSSC512  | 5/16-18 x 3     | 20            | 100           | 700      |
| FSSC513  | 5/16-18 x 3 1/4 | 10            | 50            | 300      |
| FSSC514  | 5/16-18 x 3 1/2 | 10            | 50            | 250      |
| FSSC516  | 5/16-18 x 4     | 10            | 50            | 350      |
| FSSC518  | 5/16-18 x 4 1/2 | 10            | 50            | 200      |
| FSSC520  | 5/16-18 x 5     | 10            | 50            | 300      |
| FSSC603  | 3/8-16 x 3/4    | 20            | 100           | 1250     |
| FSSC604  | 3/8-16 x 1      | 20            | 100           | 600      |
| FSSC605  | 3/8-16 x 1 1/4  | 20            | 100           | 875      |
| FSSC606  | 3/8-16 x 1 1/2  | 20            | 100           | 850      |
| FSSC608  | 3/8-16 x 2      | 20            | 100           | 700      |
| FSSC609  | 3/8-16 x 2 1/4  | 10            | 50            | 350      |
| FSSC610  | 3/8-16 x 2 1/2  | 10            | 50            | 300      |
| FSSC612  | 3/8-16 x 3      | 10            | 50            | 450      |
| FSSC614  | 3/8-16 x 3 1/2  | 10            | 50            | 350      |
| FSSC616  | 3/8-16 x 4      | 10            | 50            | 300      |
| FSSC620  | 3/8-16 x 5      | 5             | 25            | 225      |
| FSSC622  | 3/8-16 x 5 1/2  | 5             | 25            | 200      |
| FSSC808  | 1/2-13 x 2      | 10            | 50            | 350      |
| FSSC812  | 1/2-13 x 3      | 10            | 50            | 250      |
| FSSC816  | 1/2-13 x 4      | 5             | 25            | 175      |
| FSSC822  | 1/2-13 x 5 1/2  | 4             | 20            | 110      |
| FSSC824  | 1/2-13 x 6      | 5             | 25            | 125      |
| FSSC830  | 1/2-13 x 7 1/2  | 5             | 25            | 70       |
| FSSC1008 | 5/8-11 x 2      | 5             | 25            | 100      |



## BRASS • COARSE THREAD • IMPORTED

| Part #  | Size       | Farm Pack Qty | Shop Pack Qty |
|---------|------------|---------------|---------------|
| FBC0408 | 1/4-20 x 1 | 20            | 100           |



## HEX LAG SCREWS

## ZINC PLATED • IMPORTED

Hex Lag Screws are manufactured to SAE J429 Grade 1 specs. They have a minimum tensile strength (not pullout strength) of 60,000 psi. Typical hardness is HRB 70-100. Diameter is measured on the outside of the threads. Length is measured under the head to the end of the lag. Socket size (width across the flats) is equivalent to Hex Bolts.



| Part # | Size         | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part # | Size        | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|--------|--------------|---------------|---------------|----------|--------|-------------|---------------|---------------|----------|
| FL408  | 1/4 x 1      | 20            | 100           | 2500     | FL632  | 3/8 x 4     | 10            | 50            | 250      |
| FL410  | 1/4 x 1 1/4  | 20            | 100           | 2800     | FL636  | 3/8 x 4 1/2 | 10            | 50            | 225      |
| FL412  | 1/4 x 1 1/2  | 20            | 100           | 1875     | FL640  | 3/8 x 5     | 10            | 50            | 250      |
| FL416  | 1/4 x 2      | 20            | 100           | 1425     | FL644  | 3/8 x 5 1/2 | 10            | 50            | 250      |
| FL420  | 1/4 x 2 1/2  | 20            | 100           | 1125     | FL648  | 3/8 x 6     | 10            | 50            | 150      |
| FL424  | 1/4 x 3      | 20            | 100           | 875      | FL656  | 3/8 x 7     | -             | 10            | 145      |
| FL428  | 1/4 x 3 1/2  | 20            | 100           | 850      | FL664  | 3/8 x 8     | -             | 10            | 175      |
| FL432  | 1/4 x 4      | 20            | 100           | 700      | FL812  | 1/2 x 1 1/2 | 10            | 50            | 350      |
| FL436  | 1/4 x 4 1/2  | 20            | 100           | 600      | FL816  | 1/2 x 2     | 10            | 50            | 450      |
| FL440  | 1/4 x 5      | 20            | 100           | 550      | FL820  | 1/2 x 2 1/2 | 10            | 50            | 300      |
| FL508  | 5/16 x 1     | 20            | 100           | 1375     | FL824  | 1/2 x 3     | 10            | 50            | 200      |
| FL510  | 5/16 x 1 1/4 | 20            | 100           | 1125     | FL828  | 1/2 x 3 1/2 | 5             | 25            | 175      |
| FL512  | 5/16 x 1 1/2 | 20            | 100           | 1600     | FL832  | 1/2 x 4     | 5             | 25            | 125      |
| FL516  | 5/16 x 2     | 20            | 100           | 750      | FL836  | 1/2 x 4 1/2 | 5             | 25            | 150      |
| FL520  | 5/16 x 2 1/2 | 20            | 100           | 550      | FL840  | 1/2 x 5     | 5             | 25            | 125      |
| FL524  | 5/16 x 3     | 20            | 100           | 625      | FL848  | 1/2 x 6     | 5             | 25            | 100      |
| FL528  | 5/16 x 3 1/2 | 10            | 50            | 450      | FL856  | 1/2 x 7     | -             | 10            | 70       |
| FL532  | 5/16 x 4     | 10            | 50            | 525      | FL864  | 1/2 x 8     | -             | 10            | 75       |
| FL536  | 5/16 x 4 1/2 | 10            | 50            | 400      | FL880  | 1/2 x 10    | -             | 10            | 75       |
| FL540  | 5/16 x 5     | 10            | 50            | 300      | FL1016 | 5/8 x 2     | 5             | 25            | 275      |
| FL608  | 3/8 x 1      | 20            | 100           | 875      | FL1032 | 5/8 x 4     | 5             | 25            | 160      |
| FL612  | 3/8 x 1 1/2  | 20            | 100           | 550      | FL1040 | 5/8 x 5     | 5             | 25            | 140      |
| FL616  | 3/8 x 2      | 20            | 100           | 600      | FL1048 | 5/8 x 6     | 4             | 20            | 50       |
| FL620  | 3/8 x 2 1/2  | 10            | 50            | 450      | FL1072 | 5/8 x 9     | -             | 5             | 30       |
| FL624  | 3/8 x 3      | 10            | 50            | 350      | FL1232 | 3/4 x 4     | 4             | 20            | 75       |
| FL628  | 3/8 x 3 1/2  | 10            | 50            | 375      |        |             |               |               |          |

# HEX LAG SCREWS

## HOT DIP GALVANIZED • IMPORTED

| Part # | Size     | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|--------|----------|---------------|---------------|----------|
| FLG424 | 1/4 x 3  | 20            | 100           | 875      |
| FLF424 | 1/4 x 3* | 20            | 100           | 1000     |
| FLG516 | 5/16 x 2 | 20            | 100           | 750      |
| FLG524 | 5/16 x 3 | 20            | 100           | 625      |
| FLG540 | 5/16 x 5 | 10            | 50            | 375      |
| FLG548 | 5/16 x 6 | 10            | 50            | 300      |
| FLG624 | 3/8 x 3  | 10            | 50            | 350      |

\*Flanged Lags with a 3/8 hex.



## 18-8 STAINLESS STEEL • IMPORTED

18-8 Stainless Steel Hex Lag Screws have a minimum tensile strength (not pullout strength) of 100,000-125,000 psi. Minimum hardness is HRB 100. Diameter is measured on the outside of the threads. Length is measured under the head to the end of the lag. Socket size (width across the flats) is equivalent to Hex Bolts.



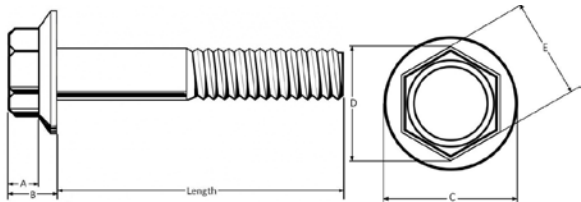
| Part #  | Size         | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #  | Size         | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|---------|--------------|---------------|---------------|----------|---------|--------------|---------------|---------------|----------|
| FSSL408 | 1/4 x 1      | 20            | 100           | 3500     | FSSL520 | 5/16 x 2 1/2 | 20            | 100           | 550      |
| FSSL410 | 1/4 x 1 1/4  | 20            | 100           | 2800     | FSSL524 | 5/16 x 3     | 20            | 100           | 700      |
| FSSL412 | 1/4 x 1 1/2  | 20            | 100           | 1200     | FSSL528 | 5/16 x 3 1/2 | 10            | 50            | 500      |
| FSSL416 | 1/4 x 2      | 20            | 100           | 800      | FSSL532 | 5/16 x 4     | 10            | 50            | 525      |
| FSSL420 | 1/4 x 2 1/2  | 20            | 100           | 600      | FSSL614 | 3/8 x 1 3/4  | 20            | 100           | 625      |
| FSSL424 | 1/4 x 3      | 20            | 100           | 450      | FSSL616 | 3/8 x 2      | 20            | 100           | 600      |
| FSSL428 | 1/4 x 3 1/2  | 20            | 100           | 400      | FSSL620 | 3/8 x 2 1/2  | 10            | 50            | 450      |
| FSSL432 | 1/4 x 4      | 20            | 100           | 300      | FSSL624 | 3/8 x 3      | 10            | 50            | 350      |
| FSSL512 | 5/16 x 1 1/2 | 20            | 100           | 1600     | FSSL628 | 3/8 x 3 1/2  | 10            | 50            | 375      |
| FSSL516 | 5/16 x 2     | 20            | 100           | 750      | FSSL632 | 3/8 x 4      | 10            | 50            | 250      |

HEX FLANGE SCREWS

TECHNICAL INFORMATION

CORE HARDNESS ROCKWELL

| Grade | Core Hardness Rockwell |
|-------|------------------------|
| 5     | C25- C34               |
| 8     | C33- C39               |



TENSILE STRENGTHS  
(COARSE THREAD) (FINE THREAD)

| Diameter | Grade 5 | Grade 8 | Diameter | Grade 8 |
|----------|---------|---------|----------|---------|
| 1/4-20   | 3800    | 4750    | 1/4-28   | 5450    |
| 5/16-18  | 6300    | 7850    | 5/16-24  | 8700    |
| 3/8-16   | 9300    | 11600   | 3/8-24   | 13200   |
| 7/16-14  | 12800   | 15900   | 7/16-20  | 17800   |
| 1/2-13   | 17000   | 21300   | 1/2-20   | 24000   |
| 5/8-11   | 27100   | 33900   | 5/8-18   | 38400   |
| 3/4-10   | 40100   | 50100   | 3/4-16   | 56000   |

DIMENSIONS

| Diameter | A    | B    | C    | D     | E     |
|----------|------|------|------|-------|-------|
| 1/4      | 0.17 | 0.28 | 0.56 | 0.421 | 3/8   |
| 5/16     | 0.21 | 0.32 | 0.68 | 0.562 | 1/2   |
| 3/8      | 0.25 | 0.39 | 0.81 | 0.634 | 9/16  |
| 7/16     | 0.3  | 0.46 | 0.93 | 0.703 | 5/8   |
| 1/2      | 0.34 | 0.51 | 1.07 | 0.845 | 3/4   |
| 5/8      | 0.42 | 0.62 | 1.33 | 1.054 | 15/16 |
| 3/4      | 0.51 | 0.73 | 1.59 | 1.266 | 1 1/8 |

# HEX FLANGE SCREWS

## GRADE 8 ▪ COARSE THREAD ▪ PHOS & OIL FINISH ▪ MADE IN CANADA (FRAME BOLTS)

Hex Flange Screws Grade 8 are manufactured to SAE J429 Grade 8 & IFI- 111 specs. They have a minimum tensile strength of 150,000 psi.



| Part #   | Size            | Package Qty | Bulk Qty |
|----------|-----------------|-------------|----------|
| FFS80406 | 1/4-20 x 3/4    | 100         | 2200     |
| FFS80408 | 1/4-20 x 1      | 100         | 2000     |
| FFS80410 | 1/4-20 x 1 1/4  | 100         | 1700     |
| FFS80506 | 5/16-18 x 3/4   | 100         | 1200     |
| FFS80508 | 5/16-18 x 1     | 100         | 1100     |
| FFS80510 | 5/16-18 x 1 1/4 | 100         | 1000     |
| FFS80512 | 5/16-18 x 1 1/2 | 100         | 800      |
| FFS80516 | 5/16-18 x 2     | 100         | 700      |
| FFS80608 | 3/8-16 x 1      | 100         | 700      |
| FFS80610 | 3/8-16 x 1 1/4  | 100         | 600      |
| FFS80612 | 3/8-16 x 1 1/2  | 100         | 600      |
| FFS80616 | 3/8-16 x 2      | 100         | 450      |
| FFS80620 | 3/8-16 x 2 1/2  | 50          | 400      |
| FFS80708 | 7/16-14 x 1     | 50          | 500      |
| FFS80712 | 7/16-14 x 1 1/2 | 50          | 400      |
| FFS80716 | 7/16-14 x 2     | 50          | 300      |
| FFS80720 | 7/16-14 x 2 1/2 | 50          | 275      |
| FFS8404  | 1/2-13 x 1      | 50          | 325      |
| FFS8405  | 1/2-13 x 1 1/4  | 50          | 275      |
| FFS8406  | 1/2-13 x 1 1/2  | 50          | 275      |
| FFS8407  | 1/2-13 x 1 3/4  | 50          | 225      |
| FFS8408  | 1/2-13 x 2      | 50          | 225      |
| FFS8410  | 1/2-13 x 2 1/2  | 50          | 150      |
| FFS8412  | 1/2-13 x 3      | 25          | 150      |
| FFS8414  | 1/2-13 x 3 1/2  | 25          | 135      |

| Part #  | Size           | Package Qty | Bulk Qty |
|---------|----------------|-------------|----------|
| FFS8416 | 1/2-13 x 4     | 25          | 120      |
| FFS8418 | 1/2-13 x 4 1/2 | 25          | 100      |
| FFS8420 | 1/2-13 x 5     | 20          | 95       |
| FFS8505 | 5/8-11 x 1 1/4 | 25          | 160      |
| FFS8506 | 5/8-11 x 1 1/2 | 25          | 150      |
| FFS8507 | 5/8-11 x 1 3/4 | 25          | 140      |
| FFS8508 | 5/8-11 x 2     | 25          | 110      |
| FFS8509 | 5/8-11 x 2 1/4 | 25          | 110      |
| FFS8510 | 5/8-11 x 2 1/2 | 25          | 120      |
| FFS8512 | 5/8-11 x 3     | 25          | 85       |
| FFS8514 | 5/8-11 x 3 1/2 | 20          | 80       |
| FFS8516 | 5/8-11 x 4     | 15          | 60       |
| FFS8518 | 5/8-11 x 4 1/2 | 15          | 60       |
| FFS8520 | 5/8-11 x 5     | 10          | 60       |
| FFS8522 | 5/8-11 x 5 1/2 | 10          | 50       |
| FFS8606 | 3/4-10 x 1 1/2 | 20          | 90       |
| FFS8607 | 3/4-10 x 1 3/4 | 20          | 80       |
| FFS8608 | 3/4-10 x 2     | 20          | 70       |
| FFS8609 | 3/4-10 x 2 1/4 | 15          | 60       |
| FFS8610 | 3/4-10 x 2 1/2 | 15          | 55       |
| FFS8612 | 3/4-10 x 3     | 15          | 50       |
| FFS8614 | 3/4-10 x 3 1/2 | 10          | 50       |
| FFS8616 | 3/4-10 x 4     | 10          | 45       |
| FFS8620 | 3/4-10 x 5     | 10          | 40       |
| FFS8624 | 3/4-10 x 6     | 10          | 35       |

## GRADE 8 • FINE THREAD • PHOS & OIL FINISH • MADE IN CANADA (FRAME BOLTS)



| Part #    | Size            | Package Qty | Bulk Qty | Part #   | Size           | Package Qty | Bulk Qty |
|-----------|-----------------|-------------|----------|----------|----------------|-------------|----------|
| FFS8F406  | 1/2-20 x 1 1/2  | 50          | 250      | FFS8F509 | 5/8-18 x 2 1/4 | 25          | 110      |
| FFS8F407  | 1/2-20 x 1 3/4  | 50          | 225      | FFS8F510 | 5/8-18 x 2 1/2 | 20          | 90       |
| FFS8F408  | 1/2-20 x 2      | 50          | 200      | FFS8F512 | 5/8-18 x 3     | 25          | 85       |
| FFS8F409  | 1/2-20 x 2 1/4  | 50          | 175      | FFS8F514 | 5/8-18 x 3 1/2 | 15          | 80       |
| FFS8F410  | 1/2-20 x 2 1/2  | 50          | 150      | FFS8F516 | 5/8-18 x 4     | 15          | 60       |
| FFS8F412  | 1/2-20 x 3      | 25          | 150      | FFS8F518 | 5/8-18 x 4 1/2 | 15          | 60       |
| FFS8F416  | 1/2-20 x 4      | 25          | 135      | FFS8F520 | 5/8-18 x 5     | 10          | 60       |
| FFS8F420  | 1/2-20 x 5      | 20          | 120      | FFS8F608 | 3/4-16 x 2     | 20          | 70       |
| FFS8F505Z | 5/8-18 x 1 1/4* | 25          | 160      | FFS8F610 | 3/4-16 x 2 1/2 | 15          | 55       |
| FFS8F506  | 5/8-18 x 1 1/2  | 25          | 150      | FFS8F612 | 3/4-16 x 3     | 15          | 50       |
| FFS8F507  | 5/8-18 x 1 3/4  | 25          | 120      | FFS8F614 | 3/4-16 x 3 1/2 | 10          | 50       |
| FFS8F508  | 5/8-18 x 2      | 25          | 110      |          |                |             |          |

\*Zinc Plated

## GRADE 8 • COARSE THREAD • YELLOW ZINC • MADE IN CANADA (FRAME BOLTS)

| Part #    | Size       | Package Qty | Bulk Qty |
|-----------|------------|-------------|----------|
| FFS8Y0616 | 3/8-16 x 2 | 100         | 450      |
| FFS8Y0816 | 1/2-13 x 2 | 50          | 230      |



## 12 POINT • GRADE 8 • COARSE THREAD • PLAIN

| Part #      | Size         | Package Qty | Bulk Qty |
|-------------|--------------|-------------|----------|
| FFS12P80606 | 3/8-16 x 3/4 | 100         | 1000     |



## HEX FLANGE SCREWS

### SERRATED ▪ GRADE 5 ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

Serrated Hex Flange Screws Grade 5 are manufactured to SAE J429 Grade 5 & IFI-111 specs. They have a minimum tensile strength of 120,000 psi.



| Part #   | Size            | Package Qty | Bulk Qty | Part #   | Size           | Package Qty | Bulk Qty |
|----------|-----------------|-------------|----------|----------|----------------|-------------|----------|
| FFS50404 | 1/4-20 x 1/2    | 100         | 2800     | FFS50604 | 3/8-16 x 1/2   | 100         | 850      |
| FFS50405 | 1/4-20 x 5/8    | 100         | 2500     | FFS50606 | 3/8-16 x 3/4   | 100         | 800      |
| FFS50406 | 1/4-20 x 3/4    | 100         | 2300     | FFS50608 | 3/8-16 x 1     | 100         | 700      |
| FFS50408 | 1/4-20 x 1      | 100         | 2000     | FFS50610 | 3/8-16 x 1 1/4 | 100         | 650      |
| FFS50410 | 1/4-20 x 1 1/4  | 100         | 1400     | FFS50612 | 3/8-16 x 1 1/2 | 100         | 600      |
| FFS50412 | 1/4-20 x 1 1/2  | 100         | 1400     | FFS50614 | 3/8-16 x 1 3/4 | 100         | 500      |
| FFS50414 | 1/4-20 x 1 3/4  | 100         | 1100     | FFS50616 | 3/8-16 x 2     | 100         | 400      |
| FFS50416 | 1/4-20 x 2      | 100         | -        | FFS50620 | 3/8-16 x 2 1/2 | 50          | 400      |
| FFS50420 | 1/4-20 x 2 1/2  | 100         | 700      | FFS50624 | 3/8-16 x 3     | 50          | -        |
| FFS50504 | 5/16-18 x 1/2   | 100         | 1500     | FFS50808 | 1/2-13 x 1     | 50          | 300      |
| FFS50506 | 5/16-18 x 3/4   | 100         | 1200     | FFS50810 | 1/2-13 x 1 1/4 | 50          | 250      |
| FFS50508 | 5/16-18 x 1     | 100         | 1100     | FFS50812 | 1/2-13 x 1 1/2 | 50          | 200      |
| FFS50510 | 5/16-18 x 1 1/4 | 100         | 1000     | FFS50814 | 1/2-13 x 1 3/4 | 50          | 200      |
| FFS50512 | 5/16-18 x 1 1/2 | 100         | 900      | FFS50816 | 1/2-13 x 2     | 50          | 150      |
| FFS50514 | 5/16-18 x 1 3/4 | 100         | 800      | FFS50820 | 1/2-13 x 2 1/2 | 25          | 125      |
| FFS50516 | 5/16-18 x 2     | 100         | 550      | FFS50824 | 1/2-13 x 3     | 25          | 100      |
| FFS50518 | 5/16-18 x 2 1/4 | 100         | 600      |          |                |             |          |

### SERRATED ▪ STAINLESS STEEL ▪ COARSE THREAD ▪ IMPORTED

| Part #    | Size          | Package Qty | Bulk Qty |
|-----------|---------------|-------------|----------|
| FSSFS0406 | 1/4-20 x 3/4  | 100         | 2300     |
| FSSFS0408 | 1/4-20 x 1    | 100         | 2000     |
| FSSFS0506 | 5/16-18 x 3/4 | 100         | 500      |
| FSSFS0508 | 5/16-18 x 1   | 100         | 1100     |
| FSSFS0604 | 3/8-16 x 1/2  | 100         | 650      |
| FSSFS0605 | 3/8-16 x 5/8  | 100         | 650      |
| FSSFS0606 | 3/8-16 x 3/4  | 100         | 800      |
| FSSFS0608 | 3/8-16 x 1    | 100         | 700      |

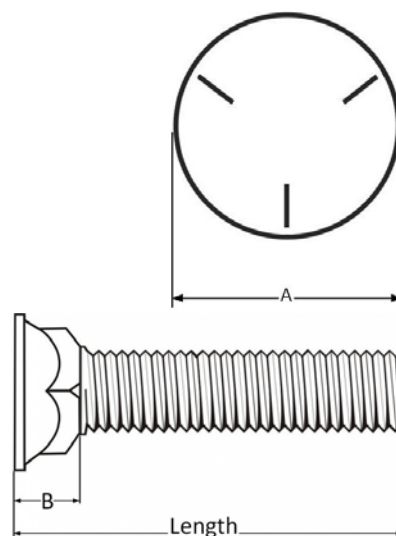


## FLOW BOLTS

### TECHNICAL INFORMATION

#### DIMENSIONS

| Diameter | A     | B     | Width of Square |
|----------|-------|-------|-----------------|
| 3/8-16   | 0.671 | 0.296 | 0.383           |
| 7/16-14  | 0.781 | 0.346 | 0.446           |
| 1/2-13   | 0.89  | 0.396 | 0.508           |
| 5/8-11   | 1.094 | 0.481 | 0.633           |
| 3/4-10   | 1.25  | 0.516 | 0.758           |
| 7/8-9    | 1.469 | 0.595 | 0.89            |
| 1-8      | 1.656 | 0.659 | 1.015           |



#### GRADE 5 • COARSE THREAD • PLAIN FINISH • MADE IN CANADA OR IMPORTED

Flow Bolts Grade 5 are manufactured to SAE J429 Grade 5 specs. They have a minimum tensile strength of 120,000 psi.



| Part # | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part # | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|--------|-----------------|---------------|---------------|----------|--------|----------------|---------------|---------------|----------|
| FP0608 | 3/8-16 x 1      | 20            | 100           | 1200     | FP0724 | 7/16-14 x 3    | 10            | 50            | 300      |
| FP0610 | 3/8-16 x 1 1/4  | 20            | 100           | 1000     | FP0810 | 1/2-13 x 1 1/4 | 10            | 50            | 450      |
| FP0612 | 3/8-16 x 1 1/2  | 20            | 100           | 850      | FP0812 | 1/2-13 x 1 1/2 | 10            | 50            | 450      |
| FP0614 | 3/8-16 x 1 3/4  | 20            | 100           | 700      | FP0814 | 1/2-13 x 1 3/4 | 10            | 50            | 400      |
| FP0616 | 3/8-16 x 2      | 20            | 100           | 625      | FP0816 | 1/2-13 x 2     | 10            | 50            | 350      |
| FP0620 | 3/8-16 x 2 1/2  | 10            | 50            | 500      | FP0818 | 1/2-13 x 2 1/4 | 10            | 50            | 300      |
| FP0710 | 7/16-14 x 1 1/4 | 10            | 50            | 700      | FP0820 | 1/2-13 x 2 1/2 | 10            | 50            | 275      |
| FP0712 | 7/16-14 x 1 1/2 | 10            | 50            | 600      | FP0824 | 1/2-13 x 3     | 10            | 50            | 225      |
| FP0714 | 7/16-14 x 1 3/4 | 10            | 50            | 525      | FP0828 | 1/2-13 x 3 1/2 | 5             | 25            | 200      |
| FP0716 | 7/16-14 x 2     | 10            | 50            | 450      | FP1016 | 5/8-11 x 2     | 5             | 25            | 220      |
| FP0718 | 7/16-14 x 2 1/4 | 10            | 50            | 400      | FP1024 | 5/8-11 x 3     | 5             | 25            | 150      |
| FP0720 | 7/16-14 x 2 1/2 | 10            | 50            | 350      |        |                |               |               |          |

#### GRADE 8 • COARSE THREAD • PLAIN FINISH • MADE IN CANADA OR IMPORTED

Flow Bolts Grade 8 are manufactured to SAE J429 Grade 8 specs. They have a minimum tensile strength of 150,000 psi.

| Part #  | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|---------|----------------|---------------|---------------|----------|
| FP81218 | 3/4-10 x 2 1/4 | 4             | 20            | 125      |
| FP81222 | 3/4-10 x 2 3/4 | 2             | 10            | 110      |





## PLOW BOLTS, HEX TAP BOLTS

**CLIPPED HEAD • GRADE 5 • COARSE THREAD • PLAIN FINISH •  
MADE IN CANADA OR IMPORTED**

| Part #   | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|----------|-----------------|---------------|---------------|----------|
| FPCH0610 | 3/8-16 x 1 1/4  | 20            | 100           | 500      |
| FPCH0612 | 3/8-16 x 1 1/2  | 20            | 100           | 850      |
| FPCH0710 | 7/16-14 x 1 1/4 | 10            | 50            | 400      |
| FPCH0712 | 7/16-14 x 1 1/2 | 10            | 50            | 675      |
| FPCH0812 | 1/2-13 x 1 1/2  | 10            | 50            | 250      |



**DOME HEAD • 170M PSI TENSILE • COARSE THREAD • PLAIN  
FINISH • MADE IN CANADA (SCRAPER BLADE BOLTS)**



| Part #   | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #   | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|----------|----------------|---------------|---------------|----------|----------|----------------|---------------|---------------|----------|
| FSBB1016 | 5/8-11 x 2     | 5             | 25            | 200      | FSBB1224 | 3/4-10 x 3     | 4             | 20            | 100      |
| FSBB1018 | 5/8-11 x 2 1/4 | 5             | 25            | 175      | FSBB1228 | 3/4-10 x 3 1/2 | 4             | 20            | 90       |
| FSBB1020 | 5/8-11 x 2 1/2 | 5             | 25            | 175      | FSBB1422 | 7/8-9 x 2 3/4  | 3             | 15            | 75       |
| FSBB1024 | 5/8-11 x 3     | 5             | 25            | 150      | FSBB1424 | 7/8-9 x 3      | 3             | 15            | 70       |
| FSBB1028 | 5/8-11 x 3 1/2 | 5             | 25            | 125      | FSBB1428 | 7/8-9 x 3 1/2  | 3             | 15            | 60       |
| FSBB1220 | 3/4-10 x 2 1/2 | 4             | 20            | 125      | FSBB1624 | 1-8 x 3        | 2             | 10            | 60       |

## HEX TAP BOLTS

**GRADE 307A • COARSE THREAD • ZINC PLATED • IMPORTED  
(FULLY THREADED)**

Hex Tap Bolts Grade A307 are manufactured to ASTM A307 Grade A specs. They have a minimum tensile strength of 60,000 psi. Their dimensions are the same as Hex Bolts.

| Part #     | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|------------|-----------------|---------------|---------------|----------|
| FHTB204010 | 1/4-20 x 1 1/4  | 20            | 100           | -        |
| FHTB205016 | 5/16-18 x 2     | 20            | 100           | 900      |
| FHTB205020 | 5/16-18 x 2 1/2 | 20            | 100           | 750      |
| FHTB206012 | 3/8-16 x 1 1/2  | 20            | 100           | 750      |
| FHTB206020 | 3/8-16 x 2 1/2  | 10            | 50            | 500      |
| FHTB206040 | 3/8-16 x 5      | 10            | 50            | 280      |
| FHTB210064 | 5/8-11 x 8      | -             | 5             | 50       |



## GRADE 5 • COARSE THREAD • ZINC PLATED • IMPORTED (FULLY THREADED)

Hex Tap Bolts Grade 5 are manufactured to SAE J429 Grade 5 specs. They have a minimum tensile strength of 120,000 psi. Their dimensions are the same as Hex Bolts.



| Part #     | Size            | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #        | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|------------|-----------------|---------------|---------------|----------|---------------|----------------|---------------|---------------|----------|
| FHTB504010 | 1/4-20 x 1 1/4  | 20            | 100           | 2000     | FHTB507032    | 7/16-14 x 4    | 5             | 25            | 250      |
| FHTB504012 | 1/4-20 x 1 1/2  | 20            | 100           | 1800     | FHTB508016    | 1/2-13 x 2     | 10            | 50            | 300      |
| FHTB504014 | 1/4-20 x 1 3/4  | 20            | 100           | 1500     | FHTB508020    | 1/2-13 x 2 1/2 | 10            | 50            | 250      |
| FHTB504016 | 1/4-20 x 2      | 20            | 100           | 1375     | FHTB508024    | 1/2-13 x 3     | 10            | 50            | 225      |
| FHTB504020 | 1/4-20 x 2 1/2  | 20            | 100           | 1200     | FHTB508028    | 1/2-13 x 3 1/2 | 5             | 25            | 200      |
| FHTB504024 | 1/4-20 x 3      | 20            | 100           | 950      | FHTB508032    | 1/2-13 x 4     | 5             | 25            | 200      |
| FHTB505012 | 5/16-18 x 1 1/2 | 20            | 100           | 1050     | FHTB508040    | 1/2-13 x 5     | 5             | 25            | 150      |
| FHTB505016 | 5/16-18 x 2     | 20            | 100           | 850      | FHTB508048    | 1/2-13 x 6     | 5             | 25            | 150      |
| FHTB505020 | 5/16-18 x 2 1/2 | 20            | 100           | 725      | FHTB508064    | 1/2-13 x 8     | -             | 10            | 50       |
| FHTB505024 | 5/16-18 x 3     | 20            | 100           | 700      | FHTB510024    | 5/8-11 x 3     | 5             | 25            | 130      |
| FHTB505028 | 5/16-18 x 3 1/2 | 10            | 50            | 550      | FHTB510028    | 5/8-11 x 3 1/2 | 5             | 25            | 120      |
| FHTB505032 | 5/16-18 x 4     | 10            | 50            | 500      | FHTB510032    | 5/8-11 x 4     | 5             | 25            | 110      |
| FHTB505036 | 5/16-18 x 4 1/2 | 10            | 50            | 450      | FHTB510040    | 5/8-11 x 5     | 5             | 25            | 90       |
| FHTB506016 | 3/8-16 x 2      | 20            | 100           | 575      | FHTB510048    | 5/8-11 x 6     | 5             | 25            | 75       |
| FHTB506020 | 3/8-16 x 2 1/2  | 10            | 50            | 500      | FHTB512024    | 3/4-10 x 3     | 4             | 20            | 85       |
| FHTB506024 | 3/8-16 x 3      | 10            | 50            | 425      | FHTB512028    | 3/4-10 x 3 1/2 | 4             | 20            | 80       |
| FHTB506028 | 3/8-16 x 3 1/2  | 10            | 50            | 375      | FHTB512032    | 3/4-10 x 4     | 4             | 20            | 70       |
| FHTB506032 | 3/8-16 x 4      | 10            | 50            | 325      | FHTB512040    | 3/4-10 x 5     | 4             | 20            | 60       |
| FHTB506040 | 3/8-16 x 5      | 10            | 50            | 375      | FHTB512048    | 3/4-10 x 6     | -             | 5             | 50       |
| FHTB507016 | 7/16-14 x 2     | 10            | 50            | 400      | FHTB5P12048   | 3/4-10 x 6*    | -             | 5             | 50       |
| FHTB507024 | 7/16-14 x 3     | 10            | 50            | 300      | *Plain Finish |                |               |               |          |
| FHTB507028 | 7/16-14 x 3 1/2 | 5             | 25            | 150      |               |                |               |               |          |

## GRADE 8 • COARSE THREAD • YELLOW ZINC • IMPORTED (FULLY THREADED)

| Part #     | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|------------|----------------|---------------|---------------|----------|
| FHTB806016 | 3/8-16 X 2     | 20            | 100           | 225      |
| FHTB808020 | 1/2-13 x 2 1/2 | 10            | 50            | 225      |
| FHTB810024 | 5/8-11 x 3     | 5             | 25            | 130      |



## HEX TAP BOLTS, STEP BOLTS

### 18-8 STAINLESS STEEL ▪ COARSE THREAD ▪ IMPORTED (FULLY THREADED)

18-8 Stainless Steel Hex Tap Bolts have a minimum tensile strength of 100,000-125,000 psi. They have a minimum Rockwell hardness of B100. Their dimensions are the same as Hex Bolts.



| Part #      | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-------------|----------------|---------------|---------------|----------|
| FSSHTB04016 | 1/4-20 x 2     | 20            | 100           | 1375     |
| FSSHTB04018 | 1/4-20 x 2 1/4 | 20            | 100           | 600      |
| FSSHTB04024 | 1/4-20 x 3     | 20            | 100           | 750      |
| FSSHTB05016 | 5/16-18 X 2    | 20            | 100           | 600      |
| FSSHTB06020 | 3/8-16 X 2 1/2 | 20            | 100           | 350      |
| FSSHTB08024 | 1/2-13 x 3     | 10            | 50            | 200      |
| FSSHTB08028 | 1/2-13 x 3 1/2 | 5             | 25            | 150      |
| FSSHTB10024 | 5/8-11 x 3     | 5             | 25            | 85       |

## STEP BOLTS

### GRADE 307A ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

#### HEAD DIMENSIONS

| Diameter | Head OD | Head Height |
|----------|---------|-------------|
| 1/4-20   | 0.828   | 0.135       |
| 5/16-18  | 1.015   | 0.166       |
| 3/8-16   | 1.203   | 0.198       |

### GRADE 307A ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

Step Bolts Grade A307 are manufactured to ASTM A307 Grade A specs. They have a minimum tensile strength of 60,000 psi. Step Bolts are a Carriage Bolt with an extra large head.

| Part #  | Size         | Package Qty | Bulk Qty |
|---------|--------------|-------------|----------|
| FSB0410 | 1/4 x 1 1/4  | 100         | 800      |
| FSB0412 | 1/4 x 1 1/2  | 100         | 650      |
| FSB0416 | 1/4 x 2      | 100         | 500      |
| FSB0512 | 5/16 x 1 1/2 | 100         | 450      |
| FSB0516 | 5/16 x 2     | 100         | 400      |
| FSB0520 | 5/16 x 2 1/2 | 100         | 300      |
| FSB0616 | 3/8 x 2      | 50          | 225      |
| FSB0620 | 3/8 x 2 1/2  | 50          | 175      |



## ELEVATOR BOLTS

### GRADE 1 ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

#### HEAD DIMENSIONS

| Diameter | Head OD | Head Height |
|----------|---------|-------------|
| 1/4-20   | 0.969   | 0.088       |
| 5/16-18  | 1.188   | 0.104       |
| 3/8-16   | 1.312   | 0.135       |

### GRADE 1 ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

Elevator Bolts Grade 1 are manufactured to SAE J429 Grade 1 specs. They have a minimum tensile strength of 60,000 psi.

| Part #  | Size            | Shop Pack Qty | Bulk Qty |
|---------|-----------------|---------------|----------|
| FEB0410 | 1/4-20 x 1 1/4  | 100           | 1200     |
| FEB0412 | 1/4-20 x 1 1/2  | 100           | 1000     |
| FEB0510 | 5/16-18 x 1 1/4 | 100           | 650      |
| FEB0512 | 5/16-18 x 1 1/2 | 100           | 600      |
| FEB0516 | 5/16-18 x 2     | 100           | 500      |
| FEB0612 | 3/8-16 x 1 1/2  | 100           | 450      |
| FEB0616 | 3/8-16 x 2      | 100           | 350      |



### GRADE 1 ▪ COARSE THREAD ▪ PLAIN FINISH ▪ IMPORTED

| Part #   | Size            | Shop Pack Qty | Bulk Qty |
|----------|-----------------|---------------|----------|
| FEBP0408 | 1/4-20 x 1      | 100           | 1400     |
| FEBP0410 | 1/4-20 x 1 1/4  | 100           | 1200     |
| FEBP0412 | 1/4-20 x 1 1/2  | 100           | 1000     |
| FEBP0510 | 5/16-18 x 1 1/4 | 100           | 650      |
| FEBP0512 | 5/16-18 x 1 1/2 | 100           | 600      |
| FEBP0516 | 5/16-18 x 2     | 100           | 500      |



## TURNED EYE BOLTS, EYE LAGS (SCREW EYES)

### TURNED EYE BOLTS

#### COARSE THREAD • ZINC PLATED • MADE IN USA OR IMPORTED

Eye Bolts are manufactured from low carbon steel. Size is measured on the outside of the thread by the over all length.



| Part #     | Size          | Eye ID | Thread Length | Stem Length | Package Qty Qty | Part #   | Size        | Eye ID | Thread Length | Stem Length | Package Qty Qty |
|------------|---------------|--------|---------------|-------------|-----------------|----------|-------------|--------|---------------|-------------|-----------------|
| FEYB0316   | 3/16 x 2      | 9/32   | 1 3/16        | 1 7/16      | 100             | FEYB0532 | 5/16 x 4    | 3/4    | 2 1/4         | 2 3/4       | 50              |
| FEYB0320   | 3/16 x 2 1/2  | 1/2    | 1 1/4         | 1 5/8       | 20              | FEYB0540 | 5/16 x 5    | 3/4    | 3 1/4         | 3 3/4       | 50              |
| FEYB0420   | 1/4 x 2 1/2   | 9/16   | 1 1/8         | 1 9/16      | 20              | FEYB0624 | 3/8 x 3     | 1      | 1 5/16        | 1 5/16      | 50              |
| FEYB0416   | 1/4 x 2       | 9/16   | 7/8           | 1 1/16      | 100             | FEYB0632 | 3/8 x 4     | 1      | 2 1/8         | 2 3/8       | 50              |
| FEYB0424   | 1/4 x 3       | 9/16   | 1 3/4         | 2           | 50              | FEYB0640 | 3/8 x 5     | 1      | 3 1/8         | 3 3/8       | 25              |
| FEYB0432   | 1/4 x 4       | 9/16   | 2 3/4         | 3           | 10              | FEYB0648 | 3/8 x 6     | 1      | 3 1/4         | 4 1/4       | 25              |
| FEYB043206 | 1/4 x 4       | 3/8    | 3             | 3 1/8       | 50              | FEYB0834 | 1/2 x 4 1/4 | 1 1/4  | 1 7/8         | 1/8         | 10              |
| FEYB0523   | 5/16 x 2 7/16 | 3/4    | 1             | 1 1/4       | -               | FEYB0848 | 1/2 x 6     | 1 1/4  | 3 3/4         | 4           | 10              |
| FEYB0526   | 5/16 x 3 1/4  | 3/4    | 1 3/4         | 2           | 50              | FEYB0854 | 1/2 x 6 3/4 | 1      | 4 1/2         | 4 3/4       | 10              |

#### 18-8 STAINLESS STEEL • COARSE THREAD • MADE IN USA

| Part #       | Size        | Eye ID | Thread Length | Stem Length | Package Qty Qty |
|--------------|-------------|--------|---------------|-------------|-----------------|
| FSSEYB01020  | #10 x 2 1/2 | 1/2    | 1 1/4         | 1 5/8       | 20              |
| FSSEYB0416   | 1/4 x 2     | 9/16   | 7/8           | 1 1/16      | 10              |
| FSSEYB0526   | 5/16 x 3    | 3/4    | 1 3/4         | 2           | 10              |
| FSSEYB0532   | 5/16 x 4    | 3/4    | 2 1/4         | 2 3/4       | 10              |
| FSSEYB063010 | 3/8 x 3 5/8 | 5/8    | 2 1/4         | 2 1/2       | 10              |
| FSSEYB0632   | 3/8 x 4     | 1      | 2 1/8         | 2 3/8       | 20              |
| FSSEYB064110 | 3/8 x 5 1/8 | 5/8    | 3 3/4         | 3 7/8       | 10              |
| FSSEYB0648   | 3/8 x 6     | 1      | 3 1/4         | 4 3/8       | 10              |



### EYE LAGS (SCREW EYES)

#### ZINC PLATED • MADE IN USA OR IMPORTED

Eye lags are manufactured from low carbon steel. Size is measured on the outside of the thread by the over all length.

| Part #   | Size           | Eye ID | Thread Length | Stem Length | Package Qty Qty |
|----------|----------------|--------|---------------|-------------|-----------------|
| FEYL0316 | 3/16 x 1 15/16 | 17/32  | 3/4           | 31/32       | 100             |
| FEYL421  | 1/4 x 2 3/4    | 23/32  | 7/8           | 1 5/16      | 50              |
| FEYL430  | 1/4 x 3 3/4    | 1/2    | 1 1/2         | 2 3/4       | 50              |
| FEYL532  | 5/16 x 4       | 25/32  | 2             | 2 3/4       | 50              |
| FEYL736  | 7/16 x 4 1/2   | 4 1/2  | 2             | 3 1/16      | 10              |



## STAINLESS STEEL ▪ MADE IN USA OR IMPORTED

| Part #     | Size        | Eye ID | Thread Length | Stem Length | Package Qty Qty |
|------------|-------------|--------|---------------|-------------|-----------------|
| FSSEYL0636 | 3/8 x 4 1/2 | 3/4    | 2             | 3 1/16      | 10              |



## U-BOLTS

## ROUND BEND ▪ COARSE THREAD ▪ ZINC PLATED ▪ MADE IN USA

U-bolts are manufactured from low carbon steel. Size is measured on the outside of the thread by the inside width by the inside height. Round Bend U-Bolts come assembled with plates and nuts and Square Bend U-Bolts come assembled with washers and nuts unless otherwise noted.

| Part #       | Size                      | Thread Length | Package Qty |
|--------------|---------------------------|---------------|-------------|
| FUB041832P   | 1/4-20 x 1-1/8 x 2        | 1             | 10          |
| FUB042244*   | 1/4-20 x 1-3/8 x 2-3/4    | 1 5/8         | 10          |
| FUB052235*   | 5/16-18 x 1-3/8 x 2-3/16  | 1 1/8         | 10          |
| FUB052843P   | 5/16-18 x 1-3/4 x 2-11/16 | 1 3/8         | 10          |
| FUB054051P   | 5/16-18 x 2-1/2 x 3-3/16  | 1 3/4         | 10          |
| FUB063250P   | 3/8-16 x 2 x 3 1/8        | 2             | 10          |
| FSSUB063480* | 3/8-16 x 2 1/16 x 5       | -             | 10          |
| FUB065776*   | 3/8-16 x 3-9/16 x 4-3/4   | -             | 10          |
| FUB083248*   | 1/2-13 x 2 x 3            | -             | 10          |



\*Not including nuts and plates. Don't see the size you're looking for? Custom U-bolts are also available. Call us for price and availability!

## SQUARE BEND ▪ COARSE THREAD ▪ ZINC PLATED ▪ MADE IN USA

| Part #         | Size                   | Thread Length | Package Qty |
|----------------|------------------------|---------------|-------------|
| FUBSBZ061621   | 3/8-16 x 2 x 2-5/8     | 1 1/2         | 10          |
| FUBSBZ061637   | 3/8-16 x 2 x 4-5/8     | 3             | 10          |
| FUBSBZ061632*  | 3/8-16 x 2.060 x 4     | -             | 10          |
| FUBSBZ061640*  | 3/8-16 x 2 x 5         | 1             | 10          |
| FUBSBZ061653   | 3/8-16 x 2 x 6-5/8     | 3 3/4         | 10          |
| FUBSBZ063338*  | 3/8-16 x 4-1/8 x 4-3/4 | 2 1/2         | 10          |
| FUBSBZ082444*  | 1/2-13 x 3 x 5 1/2     | -             | 10          |
| FUBSBZ1028116* | 5/8-11 x 3-1/2 x 16    | -             | 10          |



\*Not including washers and nuts.

# HANGER BOLTS, DOWEL SCREWS, SELF CLINCHING STUDS, FULLY THREADED STUDS, THUMB SCREWS

## HANGER BOLTS

### COARSE THREAD • ZINC PLATED • IMPORTED OR MADE IN USA

Hanger Bolts are manufactured from low carbon steel. Size is measured on the outside of the threads by the overall length.

| Part #   | Size            | Package Qty | Bulk Qty |
|----------|-----------------|-------------|----------|
| FHB05024 | 5/16-18 x 3     | 100         | 900      |
| FHB05028 | 5/16-18 x 3 1/2 | 50          | 800      |



## DOWEL SCREWS

### PLAIN FINISH • MADE IN USA

Dowel Screws are manufactured from low carbon steel. Size is measured on the outside of the threads by the overall length.

| Part #  | Size           | Package Qty | Bulk Qty |
|---------|----------------|-------------|----------|
| FDS0420 | 1/4-10 x 2 1/2 | 100         | 2000     |



## SELF CLINCHING STUDS

### FLUSH HEAD • ZINC PLATED

| Part #   | Size         | Package Qty | Bulk Qty |
|----------|--------------|-------------|----------|
| FSCS0405 | 1/4-20 x 5/8 | 100         | 5000     |



## FULLY THREADED STUDS

### COARSE THREAD • ZINC PLATED

| Part #   | Size            | Package Qty | Bulk Qty |
|----------|-----------------|-------------|----------|
| FSFT0528 | 5/16-18 x 3 1/2 | 100         | 800      |
| FSFT0532 | 5/16-18 x 4     | 100         | 2000     |
| FSFT0540 | 5/16-18 x 5     | 100         | 2000     |



## THUMB SCREWS

### COARSE THREAD • ZINC PLATED • NO SHOULDER • IMPORTED

Thumb Screws with no shoulder are manufactured from low carbon steel to IFI-156 Type A specs. Size is measured on the outside of the threads by the length under the head.

| Part #   | Size         | Head Width | Head Height | Shop Pack Qty | Bulk Qty |
|----------|--------------|------------|-------------|---------------|----------|
| FTSP0406 | 1/4-20 x 3/4 | 0.81       | 0.55        | 100           | 1500     |
| FTSP0506 | 5/16 x 3/4   | 0.87       | 0.67        | 100           | 1000     |
| FTSP0606 | 3/8 x 3/4    | 1.02       | 0.75        | 50            | 500      |
| FTSP0616 | 3/8 x 2      | 1.02       | 0.75        | 50            | 200      |





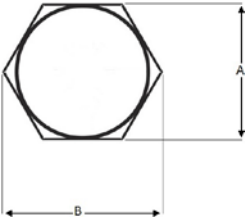
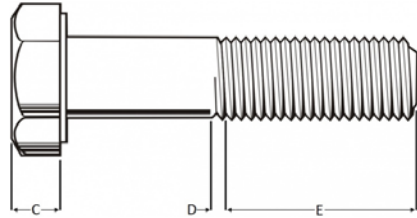
## STRUCTURAL BOLTS

## TECHNICAL INFORMATION

## ROCKWELL HARDNESS

| Grade | Sizes       | Core Hardness Rockwell |
|-------|-------------|------------------------|
| A325  | 1/2-1       | C24-C35                |
| A325  | 1 1/8-1 1/2 | C19-C31                |
| A490  | ALL         | C33-C38                |

## TENSILE STRENGTHS

| Grade A325                                                                         | Grade A490                                                                          |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 120,000 PSI                                                                        | 150,000 PSI                                                                         |
|  |  |

## DIMENSIONS

| Bolt Diameter | A                  | B                    |       | C           | D                                  | E                        |
|---------------|--------------------|----------------------|-------|-------------|------------------------------------|--------------------------|
|               | WIDTH ACROSS FLATS | WIDTH ACROSS CORNERS |       | HEAD HEIGHT | BASIC THREAD LENGTH 6" AND SHORTER | TRANSITION THREAD LENGTH |
|               |                    | Max                  | Min   |             |                                    |                          |
| 1/2           | 7/8                | 1.01                 | 0.969 | 5/16        | 1                                  | 0.19                     |
| 5/8           | 1 1/16             | 1.227                | 1.175 | 25/64       | 1.25                               | 0.22                     |
| 3/4           | 1 1/4              | 1.443                | 1.383 | 15/32       | 1.38                               | 0.25                     |
| 7/8           | 1 7/16             | 1.6                  | 1.589 | 35/64       | 1.5                                | 0.28                     |
| 1             | 1 5/8              | 1.876                | 1.796 | 39/64       | 1.75                               | 0.31                     |
| 1 1/8         | 1 13/16            | 2.093                | 2.002 | 11/16       | 2                                  | 0.34                     |
| 1 1/4         | 2                  | 2                    | 2.209 | 25/32       | 2                                  | 0.38                     |
| 1 1/2         | 2 3/8              | 2.742                | 2.622 | 15/16       | 2.25                               | 0.44                     |

## GRADE A325 • COARSE THREAD • PLAIN FINISH • MADE IN CANADA OR IMPORTED

Structural Bolts are especially designed to bolt together steel joints in heavy construction.



| Part #      | Size         | Package Qty | Bulk Qty | Part #      | Size         | Package Qty | Bulk Qty |
|-------------|--------------|-------------|----------|-------------|--------------|-------------|----------|
| FSBA3250810 | 1/2 x 1 1/4* | 50          | 400      | FSBA3251018 | 5/8 x 2 1/4  | 25          | 225      |
| FSBA3250812 | 1/2 x 1 1/2  | 50          | 350      | FSBA3251020 | 5/8 x 2 1/2  | 25          | 150      |
| FSBA3250814 | 1/2 x 1 3/4  | 50          | 350      | FSBA3251212 | 3/4 x 1 1/2  | 20          | 650      |
| FSBA3250816 | 1/2 x 2      | 50          | 300      | FSBA3251214 | 3/4 x 1 3/4* | 20          | 600      |
| FSBA3251012 | 5/8 x 1 1/2* | 25          | 225      | FSBA3251216 | 3/4 x 2      | 20          | 550      |
| FSBA3251014 | 5/8 x 1 3/4  | 25          | 850      | FSBA3251218 | 3/4 x 2 1/4  | 20          | 500      |
| FSBA3251016 | 5/8 x 2      | 25          | 825      |             |              |             |          |

\*Fully Threaded

## STRUCTURAL BOLTS, WHEEL BOLTS

### GRADE A325 ▪ COARSE THREAD ▪ PLAIN FINISH ▪ MADE IN CANADA OR IMPORTED

| Part #      | Size        | Package Qty | Bulk Qty | Part #          | Size      | Package Qty | Bulk Qty |
|-------------|-------------|-------------|----------|-----------------|-----------|-------------|----------|
| FSBA3251220 | 3/4 x 2 1/2 | 20          | 475      | FSBA3251240     | 3/4 x 5   | 20          | 260      |
| FSBA3251222 | 3/4 x 2 3/4 | 20          | 425      | FSBA3251616     | 1 x 2     | 10          | 60       |
| FSBA3251224 | 3/4 x 3     | 20          | 400      | FSBA3251618     | 1 x 2 1/4 | 10          | 75       |
| FSBA3251228 | 3/4 x 3 1/2 | 20          | 350      | FSBA3251620     | 1 x 2 1/2 | 10          | 50       |
| FSBA3251236 | 3/4 x 4 1/2 | 20          | 280      | *Fully Threaded |           |             |          |

### GRADE A325 ▪ COARSE THREAD ▪ HOT DIP GALVANIZED ▪ MADE IN CANADA OR IMPORTED

| Part #       | Size        | Package Qty | Bulk Qty |
|--------------|-------------|-------------|----------|
| FSBA325G1012 | 5/8 x 1 1/2 | 25          | 225      |
| FSBA325G1016 | 5/8 x 2     | 25          | 825      |
| FSBA325G1216 | 3/4 x 2     | 20          | 500      |



## WHEEL BOLTS

### KNURLED SHOULDER ▪ GRADE 8 ▪ FINE THREAD ▪ ZINC PLATED ▪ IMPORTED

| Part #   | Diameter | Length      | Knurl Diameter | Shoulder Length | Shop Pack Qty | Bulk Qty |
|----------|----------|-------------|----------------|-----------------|---------------|----------|
| AV14227B | 1/2-20   | 1.510/1.540 | 0.618-0.628"   | 0.310-0.330     | 10            | 500      |



### HEX HEAD ▪ TAPERED SHOULDER ▪ GRADE 5 ▪ FINE THREAD ▪ ZINC PLATED ▪ IMPORTED

| Part #     | Size (D x A) | Hex Size {C} | Thread Length | Taper |
|------------|--------------|--------------|---------------|-------|
| EQ540-0820 | 1/2 x 1 1/2  | 3/4          | 1             | 30°   |
| EQ54000918 | 9/16 x 1 3/4 | 7/8          | 1 1/8         | 45°   |



## HEX NUTS

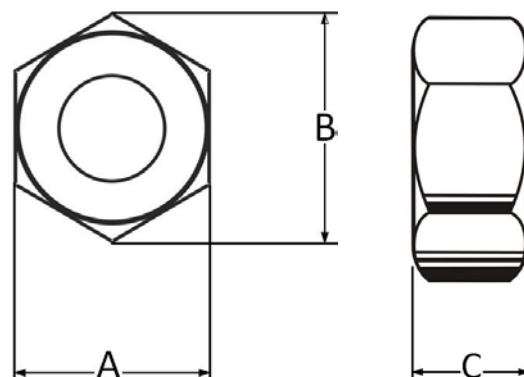
### TECHNICAL INFORMATION

#### ROCKWELL HARDNESS

| Grade | Core Hardness Rockwell |
|-------|------------------------|
| 2     | B69-B100               |
| 5     | C25-C34                |
| 8     | C33-C39                |
| 9     | C38-C42                |

#### DIMENSIONS

| Thread Size | A     | B     | C (Grade 2, 5, & 8) | C (Grade 9) |
|-------------|-------|-------|---------------------|-------------|
| #1          | 5/32  | 0.175 | 3/64                | -           |
| #2          | 3/16  | 0.211 | 1/16                | -           |
| #3          | 3/16  | 0.211 | 1/16                | -           |
| #4          | 1/4   | 0.282 | 3/32                | -           |
| #5          | 5/16  | 0.352 | 7/64                | -           |
| #6          | 5/16  | 0.352 | 7/64                | -           |
| #8          | 11/32 | 0.387 | 1/8                 | -           |
| #10         | 3/8   | 0.423 | 1/8                 | -           |
| #12         | 7/16  | 0.493 | 5/32                | -           |
| 1/4         | 7/16  | 0.493 | 7/32                | -           |
| 5/16        | 1/2   | 0.567 | 17/64               | -           |
| 3/8         | 9/16  | 0.639 | 21/64               | -           |
| 7/16        | 11/16 | 0.781 | 3/8                 | -           |
| 1/2         | 3/4   | 0.853 | 7/16                | 9/16        |



| Thread Size | A       | B     | C (Grade 2, 5, & 8) | C (Grade 9) |
|-------------|---------|-------|---------------------|-------------|
| 9/16        | 7/8     | 0.986 | 31/64               | -           |
| 5/8         | 15/16   | 1.067 | 35/64               | 23/32       |
| 3/4         | 1 1/8   | 1.27  | 41/64               | 13/16       |
| 7/8         | 1 5/16  | 1.482 | 3/4                 | -           |
| 1           | 1 1/2   | 1.693 | 55/64               | -           |
| 1 1/8       | 1 11/16 | 1.904 | 31/32               | -           |
| 1 1/4       | 1 7/8   | 2.116 | 11/16               | -           |
| 1 3/8       | 2 1/16  | 2.328 | 111/64              | -           |
| 1 1/2       | 2 1/4   | 2.539 | 19/32               | -           |
| 1 5/8       | 2 7/16  | 2.751 | 125/64              | -           |
| 1 3/4       | 2 5/8   | 2.962 | 11/2                | -           |
| 1 7/8       | 2 13/16 | 3.174 | 15/8                | -           |
| 2           | 3       | 3.385 | 123/32              | -           |

#### GRADE 2 ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

Hex Nuts Grade A are manufactured to ASTM A563 specs. They are for use with any low carbon bolt or screw with a tensile strength of 74,000 psi or less.



| Part #  | Size    | Package Qty | Bulk Qty |
|---------|---------|-------------|----------|
| FHN2004 | #4-40   | 100         | 35000    |
| FHN2006 | #6-32   | 100         | 20000    |
| FHN2008 | #8-32   | 100         | 8000     |
| FHN2010 | #10-24  | 100         | 12000    |
| FHN2012 | #12-24  | 100         | 8000     |
| FHN204  | 1/4-20  | 100         | 6000     |
| FHN205  | 5/16-18 | 100         | 4000     |
| FHN206  | 3/8-16  | 100         | 3000     |
| FHN207  | 7/16-14 | 50          | 1500     |

| Part # | Size    | Package Qty | Bulk Qty |
|--------|---------|-------------|----------|
| FHN208 | 1/2-13  | 50          | 1000     |
| FHN209 | 9/16-12 | 25          | 800      |
| FHN210 | 5/8-11  | 25          | 600      |
| FHN212 | 3/4-10  | 25          | 400      |
| FHN214 | 7/8-9   | 15          | 250      |
| FHN216 | 1-8     | 10          | 150      |
| FHN218 | 1 1/8-7 | 3           | 140      |
| FHN220 | 1 1/4-7 | 3           | 100      |
| FHN228 | 1 3/4-5 | 3           | -        |

HEX NUTS

GRADE 2 ▪ FINE THREAD ▪ ZINC PLATED ▪ IMPORTED

| Part #   | Size   | Package Qty | Bulk Qty |
|----------|--------|-------------|----------|
| FHN2F010 | #10-32 | 100         | 8000     |



GRADE 2 ▪ COARSE THREAD ▪ PLAIN FINISH ▪ IMPORTED

| Part #  | Size    | Package Qty | Bulk Qty |
|---------|---------|-------------|----------|
| FHN2P04 | 1/4-20  | 100         | 6000     |
| FHN2P05 | 5/16-18 | 100         | 4000     |
| FHN2P06 | 3/8-16  | 100         | 3000     |
| FHN2P07 | 7/16-14 | 50          | 1500     |
| FHN2P08 | 1/2-13  | 50          | 1000     |
| FHN2P10 | 5/8-11  | 25          | 650      |
| FHN2P12 | 3/4-10  | 25          | 400      |
| FHN2P16 | 1-8     | 10          | 150      |



GRADE 2 ▪ COARSE THREAD ▪ HOT DIP GALVANIZED ▪ IMPORTED

| Part #  | Size    | Package Qty | Bulk Qty |
|---------|---------|-------------|----------|
| FHN2G04 | 1/4-20  | 100         | 6000     |
| FHN2G05 | 5/16-18 | 100         | 4000     |
| FHN2G06 | 3/8-16  | 100         | 3000     |
| FHN2G08 | 1/2-13  | 50          | 1200     |
| FHN2G10 | 5/8-11  | 25          | 600      |
| FHN2G12 | 3/4-10  | 25          | 500      |
| FHN2G20 | 1 1/4-7 | 10          | 80       |



## GRADE 5 • COARSE THREAD • ZINC PLATED • IMPORTED OR MADE IN USA

Hex Nuts Grade 5 are manufactured to J995 Grade 5 specs. They are for use with any grade 5 bolt or any bolt with a tensile strength of 120,000 psi or less.



| Part # | Size    | Package Qty | Bulk Qty | Part # | Size    | Package Qty | Bulk Qty |
|--------|---------|-------------|----------|--------|---------|-------------|----------|
| FHN504 | 1/4-20  | 100         | 5000     | FHN512 | 3/4-10  | 25          | 300      |
| FHN505 | 5/16-18 | 100         | 3400     | FHN514 | 7/8-9   | 15          | 200      |
| FHN506 | 3/8-16  | 100         | 1900     | FHN516 | 1-8     | 10          | 130      |
| FHN507 | 7/16-14 | 50          | 1500     | FHN518 | 1 1/8-7 | 3           | 140      |
| FHN508 | 1/2-13  | 50          | 900      | FHN520 | 1 1/4-7 | 3           | 90       |
| FHN509 | 9/16-12 | 25          | 800      | FHN524 | 1 1/2-6 | 3           | 55       |
| FHN510 | 5/8-11  | 25          | 500      |        |         |             |          |

## GRADE 5 • FINE THREAD • ZINC PLATED • IMPORTED OR MADE IN USA

| Part #  | Size     | Package Qty | Bulk Qty |
|---------|----------|-------------|----------|
| FHN5F08 | 1/2-20   | 50          | 900      |
| FHN5F10 | 5/8-18   | 25          | 500      |
| FHN5F12 | 3/4-16   | 25          | 300      |
| FHN5F14 | 7/8-14   | 15          | 200      |
| FHN5F16 | 1-14     | 10          | 130      |
| FHN5F18 | 1 1/8-12 | 3           | 110      |
| FHN5F20 | 1 1/4-12 | 3           | 100      |



## GRADE 5 • COARSE THREAD • PLAIN FINISH • IMPORTED

| Part #  | Size   | Package Qty | Bulk Qty |
|---------|--------|-------------|----------|
| FHN5P10 | 5/8-11 | 25          | 500      |
| FHN5P12 | 3/4-10 | 25          | 300      |



## HEX NUTS

### GRADE 8 ▪ COARSE THREAD ▪ YELLOW ZINC PLATED ▪ IMPORTED OR MADE IN USA

Hex Nuts Grade 8 are manufactured to J995 Grade 8 specs. They are for use with any grade 8 bolt or any bolt with a tensile strength of 150,000 psi or less.



| Part # | Size    | Package Qty | Bulk Qty |
|--------|---------|-------------|----------|
| FHN804 | 1/4-20  | 100         | 5000     |
| FHN805 | 5/16-18 | 100         | 3400     |
| FHN806 | 3/8-16  | 100         | 1900     |
| FHN807 | 7/16-14 | 50          | 1200     |
| FHN808 | 1/2-13  | 50          | 900      |
| FHN809 | 9/16-12 | 25          | 600      |
| FHN810 | 5/8-11  | 25          | 500      |
| FHN812 | 3/4-10  | 25          | 300      |
| FHN814 | 7/8-9   | 15          | 200      |

| Part #  | Size        | Package Qty | Bulk Qty |
|---------|-------------|-------------|----------|
| FHN816  | 1-8         | 10          | 130      |
| FHN818  | 1 1/8-7     | 3           | 140      |
| FHN820  | 1 1/4-7     | 3           | 50       |
| FHN822  | 1 3/8-6     | 3           | 65       |
| FHN824  | 1 1/2-6     | 3           | 40       |
| FHN8P26 | 1 5/8-5 1/2 | 3           | 10       |
| FHN8P28 | 1 3/4-5     | 3           | 25       |
| FHN8P32 | 2-4 1/2     | 3           | 25       |

### GRADE 8 ▪ FINE THREAD ▪ YELLOW ZINC PLATED ▪ IMPORTED OR MADE IN USA



| Part #  | Size    | Package Qty | Bulk Qty |
|---------|---------|-------------|----------|
| FHN8F04 | 1/4-28  | 100         | 9000     |
| FHN8F05 | 5/16-24 | 100         | 6000     |
| FHN8F06 | 3/8-24  | 100         | 4000     |
| FHN8F07 | 7/16-20 | 50          | 1200     |
| FHN8F08 | 1/2-20  | 50          | 900      |
| FHN8F09 | 9/16-18 | 25          | 600      |
| FHN8F10 | 5/8-18  | 25          | 500      |
| FHN8F12 | 3/4-16  | 25          | 300      |
| FHN8F14 | 7/8-14  | 15          | 200      |

| Part #  | Size     | Package Qty | Bulk Qty |
|---------|----------|-------------|----------|
| FHN8F16 | 1-14     | 10          | 130      |
| FHN8F18 | 1 1/8-12 | 3           | 140      |
| FHN8F20 | 1 1/4-12 | 3           | 50       |
| FHN8F22 | 1 3/8-12 | 3           | 65       |
| FHN8F24 | 1 1/2-12 | 3           | 55       |
| FHN8F28 | 1 3/4-12 | 3           | 25       |
| FHN8F30 | 1 7/8-12 | 3           | 25       |
| FHN8F32 | 2-12     | 3           | 25       |

## THICK • GRADE 9 • COARSE THREAD • YELLOW ZINC PLATED • MADE IN USA

Hex Nuts Grade 9 are made as a thick hex nut. They are for use with any grade 9 bolt or any bolt with a tensile strength of 180,000 psi or less.

| Part # | Size   | Package Qty | Bulk Qty |
|--------|--------|-------------|----------|
| FHN908 | 1/2-13 | 50          | 1250     |
| FHN910 | 5/8-11 | 25          | 600      |



## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #   | Size    | Package Qty | Bulk Qty | Part #  | Size    | Package Qty | Bulk Qty |
|----------|---------|-------------|----------|---------|---------|-------------|----------|
| FSSHN004 | #4-40   | 100         | 35000    | FSSHN07 | 7/16-14 | 50          | 2200     |
| FSSHN006 | #6-32   | 100         | 20000    | FSSHN08 | 1/2-13  | 50          | 1000     |
| FSSHN008 | #8-32   | 100         | 15000    | FSSHN09 | 9/16-12 | 25          | 800      |
| FSSHN010 | #10-24  | 100         | 10000    | FSSHN10 | 5/8-11  | 25          | 800      |
| FSSHN012 | #12-24  | 100         | 8000     | FSSHN12 | 3/4-10  | 25          | 500      |
| FSSHN04  | 1/4-20  | 100         | 9000     | FSSHN14 | 7/8-9   | 15          | 300      |
| FSSHN05  | 5/16-18 | 100         | 6000     | FSSHN16 | 1-8     | 10          | 190      |
| FSSHN06  | 3/8-16  | 100         | 4000     |         |         |             |          |



## 18-8 STAINLESS STEEL • FINE THREAD • IMPORTED

| Part #    | Size    | Package Qty | Bulk Qty |
|-----------|---------|-------------|----------|
| FSSHNF010 | #10-32  | 100         | 13000    |
| FSSHNF04  | 1/4-28  | 100         | 9000     |
| FSSHNF05  | 5/16-24 | 100         | 6000     |
| FSSHNF06  | 3/8-24  | 100         | 4000     |
| FSSHNF08  | 1/2-20  | 50          | 1800     |
| FSSHNF10  | 5/8-18  | 25          | 800      |



## ALUMINUM • COARSE THREAD • IMPORTED

| Part # | Size    | Package Qty | Bulk Qty |
|--------|---------|-------------|----------|
| FAHN05 | 5/16-18 | 100         | 3000     |
| FAHN06 | 3/8-16  | 50          | 1900     |
| FAHN08 | 1/2-13  | 50          | 900      |
| FAHN10 | 5/8-11  | 10          | 500      |



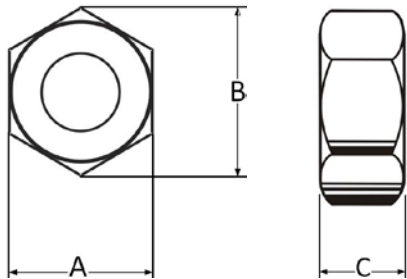


HEX JAM NUTS

HEX JAM NUTS

TECHNICAL INFORMATION

DIMENSIONS



| Thread Size | A     | B     | C    |
|-------------|-------|-------|------|
| 1/4         | 7/16  | 0.493 | 5/32 |
| 5/16        | 1/2   | 0.567 | 3/16 |
| 3/8         | 9/16  | 0.639 | 7/32 |
| 7/16        | 11/16 | 0.781 | 1/4  |
| 1/2         | 3/4   | 0.853 | 5/16 |
| 9/16        | 13/16 | 0.986 | 5/16 |
| 5/8         | 15/16 | 1.067 | 3/8  |

| Thread Size | A       | B     | C     |
|-------------|---------|-------|-------|
| 3/4         | 1 1/8   | 1.27  | 27/64 |
| 7/8         | 1 5/16  | 1.482 | 31/64 |
| 1           | 1 1/2   | 1.693 | 35/64 |
| 1 1/8       | 1 11/16 | 1.904 | 39/64 |
| 1 1/4       | 1 7/8   | 2.116 | 23/32 |
| 1 3/8       | 2 1/16  | 2.328 | 25/32 |
| 1 1/2       | 2 1/4   | 2.539 | 27/32 |

GRADE A ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

Hex Jam Nuts are designed to "jam" against a regular hex nut to provide a locking action. They are also good for use anywhere where the thread space available for a nut is limited



| Part # | Size    | Package Qty | Bulk Qty |
|--------|---------|-------------|----------|
| FJN04  | 1/4-20  | 100         | 9000     |
| FJN05  | 5/16-18 | 100         | 6000     |
| FJN06  | 3/8-16  | 100         | 4000     |
| FJN07  | 7/16-14 | 50          | 2200     |
| FJN08  | 1/2-13  | 50          | 1800     |
| FJN09  | 9/16-12 | 25          | 1500     |
| FJN10  | 5/8-11  | 25          | 800      |

| Part # | Size    | Package Qty | Bulk Qty |
|--------|---------|-------------|----------|
| FJN12  | 3/4-10  | 25          | 500      |
| FJN14  | 7/8-9   | 15          | 400      |
| FJN16  | 1-8     | 10          | 250      |
| FJN18  | 1 1/8-7 | 10          | 200      |
| FJN20  | 1 1/4-7 | 10          | 125      |
| FJN24  | 1 1/2-6 | 5           | 75       |

## GRADE A ▪ FINE THREAD ▪ ZINC PLATED ▪ IMPORTED



| Part # | Size    | Package Qty | Bulk Qty | Part # | Size     | Package Qty | Bulk Qty |
|--------|---------|-------------|----------|--------|----------|-------------|----------|
| FJNF04 | 1/4-28  | 100         | 9000     | FJNF10 | 5/8-18   | 25          | 800      |
| FJNF05 | 5/16-24 | 100         | 6000     | FJNF12 | 3/4-16   | 25          | 600      |
| FJNF06 | 3/8-24  | 100         | 4000     | FJNF14 | 7/8-14   | 15          | 400      |
| FJNF07 | 7/16-20 | 50          | 2200     | FJNF16 | 1-14     | 10          | 250      |
| FJNF08 | 1/2-20  | 50          | 1800     | FJNF18 | 1 1/8-12 | 10          | 200      |
| FJNF09 | 9/16-18 | 25          | 1500     | FJNF20 | 1 1/4-12 | 10          | 125      |

## GRADE 5 ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

| Part # | Size   | Package Qty | Bulk Qty |
|--------|--------|-------------|----------|
| FJN506 | 3/8-16 | 100         | 5000     |
| FJN512 | 3/4-10 | 25          | 570      |



## GRADE 5 ▪ FINE THREAD ▪ ZINC PLATED ▪ IMPORTED

| Part #  | Size    | Package Qty | Bulk Qty |
|---------|---------|-------------|----------|
| FJN5F07 | 7/16-20 | 50          | -        |
| FJN5F10 | 5/8-18  | 25          | 800      |



## 18-8 STAINLESS STEEL ▪ COARSE THREAD ▪ IMPORTED

| Part #  | Size    | Package Qty | Bulk Qty |
|---------|---------|-------------|----------|
| FSSJN04 | 1/4-20  | 100         | 9000     |
| FSSJN05 | 5/16-18 | 100         | 6000     |
| FSSJN06 | 3/8-16  | 100         | 4000     |
| FSSJN08 | 1/2-13  | 50          | 1800     |



HEX JAM NUTS, HEX JAM NUTS SERRATED, HEX JAM NUTS REVERSIBLE

18-8 STAINLESS STEEL • FINE THREAD • IMPORTED

| Part #   | Size    | Package Qty | Bulk Qty |
|----------|---------|-------------|----------|
| FSSJNF04 | 1/4-28  | 100         | 9000     |
| FSSJNF05 | 5/16-24 | 100         | 6000     |
| FSSJNF06 | 3/8-24  | 100         | 4000     |
| FSSJNF07 | 7/16-20 | 50          | 2200     |
| FSSJNF08 | 1/2-20  | 50          | 1800     |



HEX JAM NUTS SERRATED

COARSE THREAD • ZINC PLATED • IMPORTED

| Part # | Size   | Shop Pack Qty | Bulk Qty |
|--------|--------|---------------|----------|
| FJNS06 | 3/8-16 | 100           | 4000     |



HEX JAM NUTS REVERSIBLE

COARSE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size   | Shop Pack Qty | Bulk Qty |
|---------|--------|---------------|----------|
| FJLNR06 | 3/8-16 | 100           | 4500     |

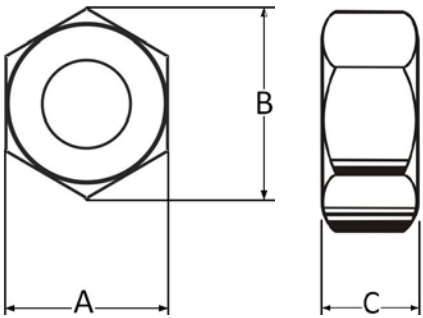


# HEAVY HEX NUTS

## TECHNICAL INFORMATION

### ROCKWELL HARDNESS

| Grade     | Hardness Rockwell |
|-----------|-------------------|
| A         | B68-C32           |
| A563C     | B78-C38           |
| 2H/DH/DH3 | C24-C38           |



## DIMENSIONS

| Thread Size | A       | B     | C       |
|-------------|---------|-------|---------|
| 1/4         | 1/2     | 0.567 | 15/64   |
| 5/16        | 9/16    | 0.636 | 19/64   |
| 3/8         | 11/16   | 0.779 | 23/64   |
| 7/16        | 3/4     | 0.848 | 27/64   |
| 1/2         | 7/8     | 0.99  | 31/64   |
| 9/16        | 15/16   | 1.06  | 35/64   |
| 5/8         | 1 1/16  | 1.201 | 39/64   |
| 3/4         | 1 1/4   | 1.413 | 47/64   |
| 7/8         | 1 7/16  | 1.625 | 55/64   |
| 1           | 1 5/8   | 1.836 | 63/64   |
| 1 1/8       | 1 13/16 | 2.048 | 17/64   |
| 1 1/4       | 2       | 2.259 | 17/32   |
| 1 3/8       | 2 3/16  | 2.471 | 1 11/32 |
| 1 1/2       | 2 3/8   | 2.682 | 1 15/32 |

### GRADE A • COARSE THREAD • ZINC PLATED • IMPORTED

Heavy Hex Nuts A563 Grade A are stronger than a grade 2 hex nut with their thicker and wider dimensions. They are recommended for use with a low carbon heavy hex bolt or anywhere where extra strength is desired.

| Part # | Size    | Package Qty | Bulk Qty |
|--------|---------|-------------|----------|
| FHHN04 | 1/4-20  | 100         | 4000     |
| FHHN05 | 5/16-18 | 100         | 3000     |
| FHHN06 | 3/8-16  | 100         | 1500     |
| FHHN08 | 1/2-13  | 50          | 700      |
| FHHN09 | 9/16-12 | 25          | 500      |
| FHHN10 | 5/8-11  | 25          | -        |
| FHHN12 | 3/4-10  | 25          | 250      |



## HEAVY HEX NUTS

### GRADE A ▪ COARSE THREAD ▪ PLAIN FINISH IMPORTED

| Part #  | Size    | Package Qty | Bulk Qty |
|---------|---------|-------------|----------|
| FHHNP05 | 5/16-18 | 100         | -        |
| FHHNP06 | 3/8-16  | 100         | 1500     |
| FHHNP07 | 7/16-14 | 50          | 1000     |
| FHHNP08 | 1/2-13  | 50          | 700      |
| FHHNP10 | 5/8-11  | 25          | 400      |
| FHHNP12 | 3/4-10  | 25          | 250      |
| FHHNP16 | 1-8     | 10          | 100      |



### A563 GRADE C ▪ COARSE THREAD ▪ PLAIN FINISH ▪ IMPORTED

Heavy Hex Nuts A563 Grade C are stronger than a grade 5 hex nut with their thicker and wider dimensions. They are recommended for use with an A325 structural bolt or anywhere where extra strength is desired

| Part #       | Size   | Package Qty | Bulk Qty |
|--------------|--------|-------------|----------|
| FHHSNA563C08 | 1/2-13 | 50          | 600      |
| FHHSNA563C10 | 5/8-11 | 25          | 400      |
| FHHSNA563C12 | 3/4-10 | 25          | 250      |
| FHHSN2H14    | 7/8-9* | 15          | 150      |
| FHHSNA563C16 | 1-8    | 10          | 100      |

\*Grade 2H nuts. Grade 2H nuts can be used with A325 or A490 structural bolts.

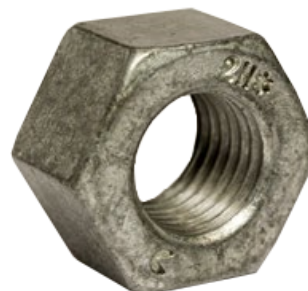


### GRADE 2H OR DH ▪ COARSE THREAD ▪ HOT DIP GALVANIZED ▪ IMPORTED

Heavy Hex Nuts A194 Grade 2H and A563 Grade DH are structural nuts for use with A325 hot dip galvanized structural bolts.

| Part #      | Size    | Package Qty | Bulk Qty |
|-------------|---------|-------------|----------|
| FHHSN2HG08  | 1/2-13  | 50          | 700      |
| FHHSN2HG10  | 5/8-11  | 25          | 325      |
| FHHSN2HG12  | 3/4-10  | 25          | 1000     |
| FHHSNDHG12W | 3/4-10* | 25          | 900      |
| FHHSNDHG14  | 7/8-9   | 15          | 115      |
| FHHSNDHG16W | 1-8*    | 10          | 400      |

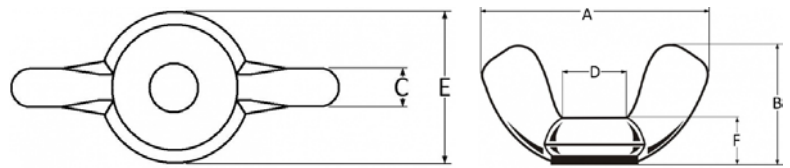
\*Waxed



## COLD FORGED WING NUTS

## TECHNICAL INFORMATION

## DIMENSIONS



| Thread Size | A    |      | B    |      | C    |      | D    |      | E    |      | F    |      |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
|             | MAX  | MIN  | MAX  | MIN  | MAX  | MIN  | MAX  | MIN  | MAX  | MIN  | MAX  | MIN  |
| #6-32       | 0.72 | 0.59 | 0.41 | 0.28 | 0.22 | 0.07 | 0.21 | 0.17 | 0.33 | 0.29 | 0.14 | 0.1  |
| #8-32       | 0.91 | 0.78 | 0.47 | 0.34 | 0.14 | 0.1  | 0.27 | 0.22 | 0.43 | 0.39 | 0.18 | 0.14 |
| #10-24      | 0.91 | 0.78 | 0.47 | 0.34 | 0.14 | 0.1  | 0.27 | 0.22 | 0.43 | 0.39 | 0.18 | 0.14 |
| 1/4         | 1.1  | 0.97 | 0.57 | 0.43 | 0.18 | 0.14 | 0.33 | 0.26 | 0.5  | 0.45 | 0.22 | 0.17 |
| 5/16        | 1.25 | 1.12 | 0.66 | 0.53 | 0.21 | 0.17 | 0.39 | 0.32 | 0.58 | 0.51 | 0.25 | 0.2  |
| 3/8         | 1.44 | 1.31 | 0.79 | 0.65 | 0.24 | 0.2  | 0.48 | 0.42 | 0.7  | 0.64 | 0.3  | 0.26 |
| 7/16        | 1.94 | 1.81 | 1    | 0.87 | 0.33 | 0.26 | 0.65 | 0.54 | 0.93 | 0.86 | 0.39 | 0.35 |
| 1/2         | 1.94 | 1.81 | 1    | 0.87 | 0.33 | 0.26 | 0.65 | 0.54 | 0.93 | 0.86 | 0.39 | 0.35 |

## LOW CARBON • COARSE THREAD • ZINC PLATED • IMPORTED

Wing Nuts are designed for use where frequent assembly and disassembly is needed and the torque achieved by hand tightening is sufficient.

| Part #  | Size    | Package Qty | Bulk Qty |
|---------|---------|-------------|----------|
| FWN006  | #6-32   | 100         | 2500     |
| FWN008  | #8-32   | 100         | 3000     |
| FWN010  | #10-24  | 100         | 5000     |
| FWN04   | 1/4-20  | 100         | 3000     |
| FWN05   | 5/16-18 | 100         | 1500     |
| FWN06   | 3/8-16  | 100         | 1000     |
| FWN07   | 7/16-14 | 50          | 350      |
| FWN08   | 1/2-13  | 50          | 250      |
| FWN1050 | 5/8-11  | -           | -        |
| FWNFO4  | 1/4-28* | 100         | -        |

\*Fine Thread



## COARSE THREAD • 18/8 STAINLESS STEEL • IMPORTED

| Part #   | Size    | Package Qty | Bulk Qty |
|----------|---------|-------------|----------|
| FSSWN010 | #10-24  | 100         | 2500     |
| FSSWN04  | 1/4-20  | 100         | 1500     |
| FSSWN05  | 5/16-18 | 100         | 1000     |



## T-PRONGED NUTS, POLY T NUTS, REGULAR SQUARE NUTS

### T-PRONGED NUTS

#### COARSE THREAD • ZINC PLATED • IMPORTED

T-Pronged Nuts are used to fasten metal products to wood, particle board, and plastic. Size is measured as thread size by barrel length under the flange.



| Part #   | Size          | # of Prongs | Flange Diameter | Shop Pack Qty | Bulk Qty | Part #   | Size          | # of Prongs | Flange Diameter | Shop Pack Qty | Bulk Qty |
|----------|---------------|-------------|-----------------|---------------|----------|----------|---------------|-------------|-----------------|---------------|----------|
| FTN006   | 6-32 X 1/4    | 3           | 1/2             | 100           | 10000    | FTN0474  | 1/4-20 X 7/16 | 4           | 3/4             | 100           | 5000     |
| FTN008   | 8-32 X 1/4    | 3           | -               | 100           | 9000     | FTN0494  | 1/4-20 X 9/16 | 4           | 3/4             | 100           | 4000     |
| FTN01053 | 10-24 x 5/16  | 3           | 3/4             | 100           | 6000     | FTN0563  | 5/16-18 X 3/8 | 3           | 7/8             | 100           | 3000     |
| FTN01054 | 10-24 X 5/16  | 4           | 3/4             | 100           | 6000     | FTN0564  | 5/16-18 X 3/8 | 4           | 7/8             | 100           | 3000     |
| FTN01076 | 10-24 X 7/16  | 6           | 3/4             | 100           | 5000     | FTN05103 | 5/16-18 X 5/8 | 3           | 7/8             | 100           | 2000     |
| FTN04    | 1/4-20 X 5/16 | 3           | 3/4             | 100           | 4000     | FTN06    | 3/8-16 X 7/16 | 4           | 1               | 100           | 1800     |

#### COARSE THREAD • STAINLESS STEEL • IMPORTED

| Part #   | Size          | # of Prongs | Shop Pack Qty | Bulk Qty |
|----------|---------------|-------------|---------------|----------|
| FSSTN010 | #10-24 X 9/32 | 3           | 100           | 5000     |
| FSSTN04  | 1/4 X 7/16    | 4           | 100           | 4000     |



### POLY T NUTS

#### COARSE THREAD • WHITE RIBBED

Use Poly Seal T Nuts to add shelving units to delivery vans. The white poly shell creates a tight seal to eliminate moisture while providing a clean exterior appearance.

| Part #      | Size          | Shop Pack Qty | Bulk Qty |
|-------------|---------------|---------------|----------|
| FWRPSTN0407 | 1/4-20 X 7/16 | 100           | 2000     |

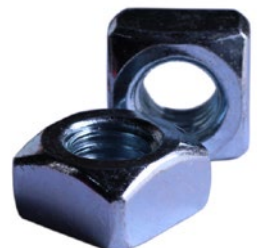


### REGULAR SQUARE NUTS

#### GRADE 2 • COARSE THREAD • ZINC PLATED • IMPORTED

Square Nuts are used to give an "old fashioned" look and in some cases where there is a square hole designed to hold a square nut.

| Part # | Size    | Package Qty | Bulk Qty |
|--------|---------|-------------|----------|
| FSQN04 | 1/4-20  | 100         | 5000     |
| FSQN05 | 5/16-18 | 100         | 2500     |
| FSQN06 | 3/8-16  | 100         | 1500     |
| FSQN08 | 1/2-13  | 100         | 750      |





## GRADE 2 • COARSE THREAD • PLAIN FINISH • IMPORTED

| Part #  | Size    | Package Qty | Bulk Qty |
|---------|---------|-------------|----------|
| FSQNP04 | 1/4-20  | 100         | 5000     |
| FSQNP05 | 5/16-18 | 100         | 2500     |
| FSQNP06 | 3/8-16  | 100         | 1500     |
| FSQNP08 | 1/2-13  | 50          | 750      |
| FSQNP10 | 5/8-11  | 25          | 400      |
| FSQNP12 | 3/4-10  | 25          | 250      |
| FSQNP16 | 1-8     | 10          | 125      |



## COUPLING NUTS

### GRADE A • COARSE THREAD • ZINC PLATED • IMPORTED

Coupling Nuts are used to join together two threaded parts, often threaded rod. Size is given here as thread size by width across the flats by over all length.



| Part #   | Size                  | Bulk Qty | Part #  | Size                   | Bulk Qty |
|----------|-----------------------|----------|---------|------------------------|----------|
| FCN01012 | #10-24 x 5/16 x 3/4   | 3500     | FCN0828 | 1/2-13 x 11/16 x 1-3/4 | 400      |
| FCN0414  | 1/4-20 x 3/8 x 7/8    | 2500     | FCN1034 | 5/8-11 x 13/16 x 2-1/8 | 250      |
| FCN0428  | 1/4-20 x 7/16 x 1-3/4 | 1000     | FCN1236 | 3/4-10 x 1 x 2-1/4     | 150      |
| FCN0518  | 5/16-18 x 1/2 x 1-1/8 | 500      | FCN1440 | 7/8-9 x 1 1/4 x 2-1/2  | 75       |
| FCN0528  | 5/16-18 x 1/2 x 1-3/4 | 500      | FCN1640 | 1-8 x 1 1/4 x 2-1/2    | 75       |
| FCN0628  | 3/8-16 x 9/16 x 1-3/4 | 500      | FCN1644 | 1-8 x 1 3/8 x 2-3/4    | 50       |
| FCN0728  | 7/16-14 x 5/8 x 1-3/4 | 450      | FCN18   | 1 1/8-7 x 1 1/2 x 3    | 25       |

### GRADE A • COARSE THREAD • PLAIN FINISH • IMPORTED

| Part #   | Size                | Bulk Qty |
|----------|---------------------|----------|
| FCNP1640 | 1-8 x 1 1/4 x 2-1/2 | 100      |



## COUPLING NUTS, ACORN CAP NUTS

### GRADE A • FINE THREAD • ZINC PLATED • IMPORTED

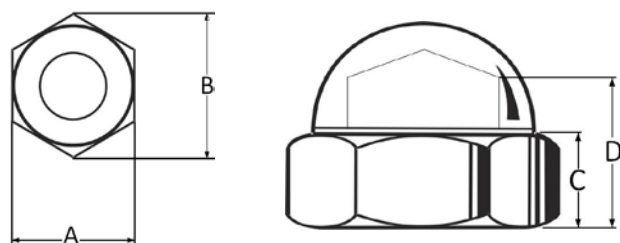
| Part #   | Size                   |
|----------|------------------------|
| FCNF0407 | 1/4-28 x 3/8 x 7/8     |
| FCNF0507 | 5/16-24 x 7/16 x 7/8   |
| FCNF0609 | 3/8-24 x 1/2 x 1-1/8   |
| FCNF0710 | 7/16-20 x 9/16 x 1-1/4 |
| FCNF0810 | 1/2-20 x 5/8 x 1-1/4   |
| FCNF1017 | 5/8-18 x 13/16 x 2-1/8 |
| FCNF1218 | 3/4-16 x 1 x 2-1/4     |



## ACORN CAP NUTS

### TECHNICAL INFORMATION

#### DIMENSIONS



| Thread Size | A     | B     | HEX HEIGHT | DRILL DEPTH |
|-------------|-------|-------|------------|-------------|
|             |       |       | C          | D           |
| #8          | 5/16  | 0.533 | 7/64       | 7/32        |
| #10         | 3/8   | 0.64  | 1/8        | 5/16        |
| 1/4         | 7/16  | 0.746 | 3/16       | 23/64       |
| 5/16        | 9/16  | 0.961 | 7/32       | 27/64       |
| 3/8         | 5/8   | 1.068 | 1/4        | 29/64       |
| 7/16        | 11/16 | 1.15  | 5/16       | 9/16        |
| 1/2         | 3/4   | 1.286 | -          | 1/2         |
| 5/8         | 15/16 | 1.602 | -          | 5/8         |

### LOW CARBON • COARSE THREAD • NICKEL PLATED • IMPORTED

Acorn Nuts or Cap Nuts are used to cover projecting thread and for decorative purposes.

| Part #   | Size    | Package Qty | Bulk Qty |
|----------|---------|-------------|----------|
| FCN2P006 | #6-32   | 100         | 8000     |
| FCN2P008 | #8-32   | 100         | 8000     |
| FCN2P010 | #10-24  | 100         | 5013     |
| FCN2P04  | 1/4-20  | 100         | 3750     |
| FCN2P05  | 5/16-18 | 100         | 1800     |
| FCN2P06  | 3/8-16  | 100         | 1250     |
| FCN2P07  | 7/16-14 | 50          | 500      |
| FCN2P08  | 1/2-13  | 50          | 500      |



## 18-8 STAINLESS STEEL ▪ COARSE THREAD ▪ IMPORTED

| Part #    | Size    | Package Qty | Bulk Qty |
|-----------|---------|-------------|----------|
| FSSAN008  | #8-32   | 100         | -        |
| FSSANF010 | #10-32  | 100         | -        |
| FSSAN010  | #10-24  | 100         | 2500     |
| FSSAN04   | 1/4-20  | 100         | 2000     |
| FSSAN05   | 5/16-18 | 100         | -        |
| FSSAN06   | 3/8-16  | 100         | -        |

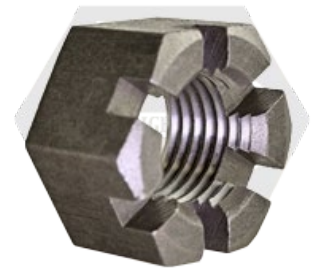


## HEX SLOTTED NUTS

## COARSE THREAD ▪ ZINC ▪ IMPORTED

Slotted Nuts are made of low carbon steel. Their dimensions are equal to a finished hex nut

| Part # | Size    | Package Qty | Bulk Qty |
|--------|---------|-------------|----------|
| FSN05  | 5/16-18 | 10          | 2000     |
| FSN06  | 3/8-16  | 10          | 1500     |
| FSN08  | 1/2-13  | 10          | 625      |
| FSN10  | 5/8-11  | 5           | 310      |
| FSN12  | 3/4-10  | 5           | 185      |
| FSN14  | 7/8-9   | 3           | 110      |
| FSN16  | 1-8     | 3           | 90       |
| FSN18  | 1-1/8-7 | 3           | 60       |
| FSN20  | 1-1/4-7 | 3           | 45       |



## FINE THREAD ▪ PLAIN FINISH ▪ IMPORTED

| Part # | Size     | Package Qty | Bulk Qty |
|--------|----------|-------------|----------|
| FSNF08 | 1/2-20   | 10          | 625      |
| FSNF09 | 9/16-18  | 5           | 0        |
| FSNF10 | 5/8-18   | 5           | 310      |
| FSNF12 | 3/4-16   | 5           | 185      |
| FSNF14 | 7/8-14   | 3           | 110      |
| FSNF16 | 1-14     | 3           | 90       |
| FSNF18 | 1-1/8-12 | 3           | 60       |
| FSNF20 | 1-1/4-12 | 3           | 50       |



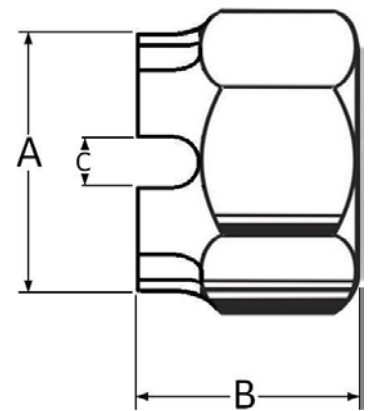
# HEX CASTLE NUTS, LEFT HAND HEX NUTS

## HEX CASTLE NUTS

### TECHNICAL INFORMATION

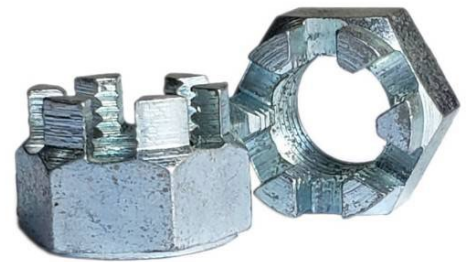
#### DIMENSIONS

| Thread Size | A     | B     | C    |      |
|-------------|-------|-------|------|------|
|             | Min   | Basic | Max  | Min  |
| 1/4         | 0.371 | 9/32  | 0.1  | 0.07 |
| 5/16        | 0.425 | 21/64 | 0.12 | 0.09 |
| 3/8         | 0.478 | 13/32 | 0.15 | 0.12 |
| 7/16        | 0.582 | 29/64 | 0.15 | 0.12 |
| 1/2         | 0.637 | 9/16  | 0.18 | 0.15 |
| 9/16        | 0.744 | 39/64 | 0.18 | 0.15 |
| 5/8         | 0.797 | 23/32 | 0.24 | 0.18 |
| 3/4         | 0.941 | 13/16 | 0.24 | 0.18 |
| 7/8         | 1.097 | 29/32 | 0.24 | 0.18 |
| 1           | 1.254 | 1     | 0.3  | 0.24 |
| 1 1/2       | 2.161 | 1 1/2 | 0.46 | 0.37 |



#### FINE THREAD • ZINC PLATED • IMPORTED

Castle Nuts are basically the same as the slotted nuts. The difference is the thickness of the nut and the cylinder shape of the slotted part.



| Part #  | Size    | Bulk Qty | Part #   | Size     | Bulk Qty |
|---------|---------|----------|----------|----------|----------|
| FCANF04 | 1/4-28  | -        | FCANF510 | 5/8-18   | 375      |
| FCANF05 | 5/16-24 | -        | FCANF12  | 3/4-16   | 340      |
| FCANF06 | 5/16-24 | -        | FCANF14  | 7/8-14   | -        |
| FCANF07 | 7/16-20 | -        | FCANF16  | 1-14     | 125      |
| FCANF08 | 1/2-20  | -        | FCANF24  | 1 1/2-12 | 50       |
| FCANF09 | 9/16-18 | -        |          |          |          |

## LEFT HAND HEX NUTS

#### GRADE 2 • COARSE THREAD • ZINC PLATED • IMPORTED

Left Hand Hex Nuts are tightened by turning them to the left instead of to the right. Their dimensions are equal to finished hex nuts

| Part #   | Size   | Package Qty | Bulk Qty |
|----------|--------|-------------|----------|
| FHN2LH06 | 3/8-16 | 100         | 3000     |
| FHN2LH08 | 1/2-13 | 50          | 900      |



## GRADE 2 • FINE THREAD • ZINC PLATED • IMPORTED

| Part #    | Size   | Package Qty |
|-----------|--------|-------------|
| FHN2LHF08 | 1/2-20 | 50          |
| FHN2LHF10 | 5/8-18 | 25          |



## GRADE 5 • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #    | Size    | Package Qty | Bulk Qty |
|-----------|---------|-------------|----------|
| FHN5LH12  | 3/4-10  | 25          | 300      |
| FHN5LH14  | 7/8-9   | 15          | 300      |
| FHN5LHP16 | 1-8     | 10          | -        |
| FHN5LH20  | 1 1/4-7 | 1           | -        |



## GRADE 5 • COARSE THREAD • PLAIN FINISH • IMPORTED

| Part #    | Size   | Package Qty | Bulk Qty |
|-----------|--------|-------------|----------|
| FHN5LHP06 | 3/8-16 | 100         | 2400     |
| FHN5LHP10 | 5/8-11 | 25          | 500      |



## GRADE 5 • FINE THREAD • ZINC PLATED • IMPORTED

| Part #    | Size     | Package Qty | Bulk Qty |
|-----------|----------|-------------|----------|
| FHN5LHF12 | 3/4-16   | 25          | 325      |
| FHN5LHF14 | 7/8-14   | 15          | -        |
| FHN5LHF16 | 1-14     | 1           | 140      |
| FHN5LHF20 | 1 1/4-12 | 1           | -        |



## LEFT HAND HEX JAM NUTS

## GRADE 5 • FINE THREAD • ZINC PLATED • IMPORTED

Left Hand Hex Jam Nuts are tightened by turning them to the left instead of to the right. Their dimensions are equal to hex jam nuts.

| Part #    | Size   | Package Qty | Bulk Qty |
|-----------|--------|-------------|----------|
| FJN5LHF10 | 5/8-18 | 25          | 800      |



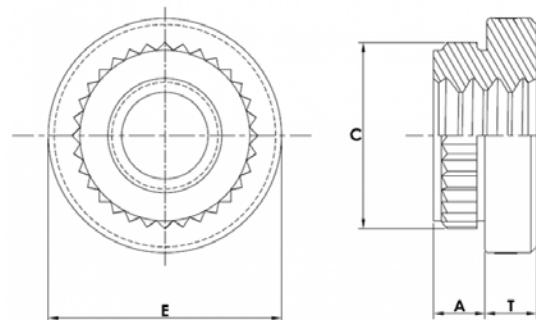
## SELF CLINCHING NUTS, HIGH HEX NUTS

### SELF CLINCHING NUTS

#### TECHNICAL INFORMATION

##### DIMENSIONS

| Thread Size | A                   | C                  | E       | T    |
|-------------|---------------------|--------------------|---------|------|
|             | Min Sheet Thickness | Hole Size in Sheet | +/-0.01 |      |
| 1/4-20-1    | 0.056               | 0.344              | 0.44    | 0.17 |
| 1/4-20-2    | 0.091               | 0.344              | 0.44    | 0.17 |
| 3/8-16-2    | 0.125               | 0.5                | 0.56    | 0.27 |
| 1/2-13-1    | 0.125               | 0.656              | 0.81    | 0.36 |



#### HEAT TREATED CARBON STEEL ▪ COARSE THREAD ▪ ZINC PLATED ▪ MADE IN USA

Self Clinching Nuts provide a quick economical way to add load bearing threads in thin sheet metal

| Part #  | Size           | Package Qty | Bulk Qty |
|---------|----------------|-------------|----------|
| FSCN008 | #8-32 x 0.054  | 100         | 10000    |
| FSCN041 | 1/4-20 x 0.054 | 100         | 10000    |
| FSCN04  | 1/4-20 x 0.087 | 100         | -        |
| FSCN06  | 3/8-16 x 0.12  | 100         | 2000     |

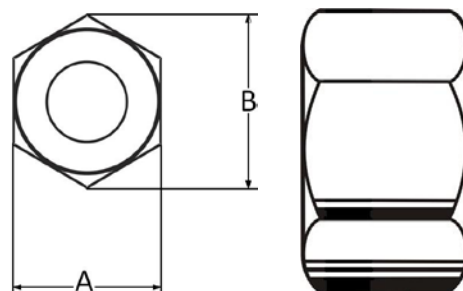


### HIGH HEX NUTS

#### TECHNICAL INFORMATION

##### DIMENSIONS

| Thread Size | A      | B     | Thickness |
|-------------|--------|-------|-----------|
| 1/2         | 3/4    | 0.853 | 21/32     |
| 5/8         | 15/16  | 1.067 | 27/32     |
| 3/4         | 1 1/8  | 1.27  | 1         |
| 7/8         | 1 1/4  | 1.41  | 15/32     |
| 1           | 1 7/16 | 1.622 | 15/16     |



## GRADE 8 • FINE THREAD • PLAIN FINISH • IMPORTED

High Hex Nuts provide more thread engagement than a finished hex nut and are used where additional wrenching area is needed.

| Part #   | Size   | Package Qty | Bulk Qty |
|----------|--------|-------------|----------|
| FHIHNF06 | 3/8-24 | 100         | 1000     |
| FHIHNF08 | 1/2-20 | 50          | -        |
| FHIHNF10 | 5/8-18 | 25          | 185      |
| FHIHNF12 | 3/4-16 | 25          | 125      |
| FHIHNF14 | 7/8-14 | 15          | 85       |

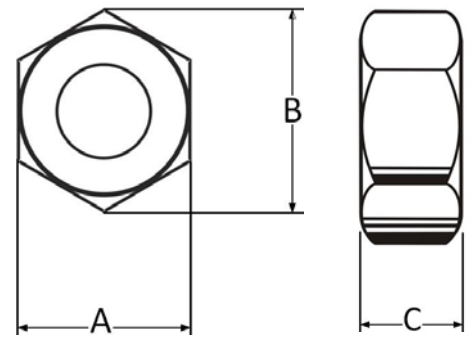


## ACME HEAVY HEX NUTS

### TECHNICAL INFORMATION

#### DIMENSIONS

| Thread Size | A      | B       |
|-------------|--------|---------|
| 1/2         | 7/8    | 31/64   |
| 5/8         | 1 1/16 | 39/64   |
| 3/4         | 1 1/4  | 47/64   |
| 7/8         | 1 7/16 | 55/64   |
| 1           | 1 5/8  | 63/64   |
| 1 1/4       | 2      | 17/32   |
| 1 1/2       | 2 3/8  | 1 15/32 |



## LOW CARBON STEEL • PLAIN FINISH • MADE IN USA

ACME Nuts have thread that is broader, stronger, and more square than standard threads. It is excellent for use in frequent assembly and disassembly, dirty environments, and in adjusting and leveling assemblies.

| Part #     | Size    |
|------------|---------|
| EQ413-0810 | 1/2-10  |
| EQ413-1008 | 5/8-8   |
| EQ413-1206 | 3/4-6   |
| EQ413-1406 | 7/8-6   |
| EQ413-1604 | 1-4     |
| EQ413-1605 | 1-5     |
| EQ413-2005 | 1 1/4-5 |



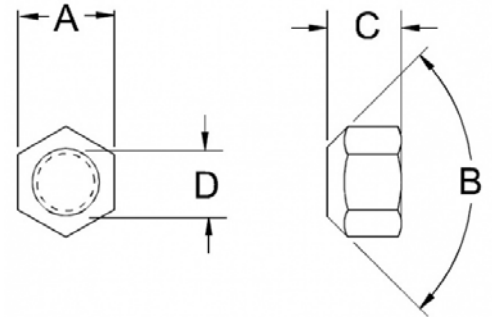
## WHEEL NUTS, SPRING NUTS

### WHEEL NUTS

#### FINE THREAD • ZINC PLATED • IMPORTED

##### DIMENSIONS

| Size    | A        | B     | C      |
|---------|----------|-------|--------|
|         | Hex Size | Taper | Height |
| 7/16-20 | 3/4      | 60°   | 9/16   |
| 1/2-20  | 13/16    | 90°   | 5/8    |
| 1/2-20  | 13/16    | 60°   | 5/8    |
| 9/16-18 | 1 1/16   | 90°   | 21/32  |



#### FINE THREAD • ZINC PLATED • IMPORTED

| Part #    | Size    | Package Qty | Bulk Qty |
|-----------|---------|-------------|----------|
| FWHNF0890 | 1/2-20  | -           | -        |
| FWHNF08   | 1/2-20  | 50          | 800      |
| FWHNF09   | 9/16-18 | 10          | -        |
| FWHNF10   | 5/8-18  | 10          | -        |



### SPRING NUTS

#### REGULAR SPRING • ZINC PLATED

| Part # | Size    | Package Qty |
|--------|---------|-------------|
| FSPN04 | 1/4-20  | 100         |
| FSPN05 | 5/16-18 | 25          |
| FSPN06 | 3/8-16  | 25          |
| FSPN08 | 1/2-13  | 25          |



#### TWIRL NUT-STRUT • ZINC PLATED

| Part # | Size    | Package Qty |
|--------|---------|-------------|
| FTNS04 | 1/4-20  | 100         |
| FTNS05 | 5/16-18 | 100         |
| FTNS06 | 3/8-16  | 100         |



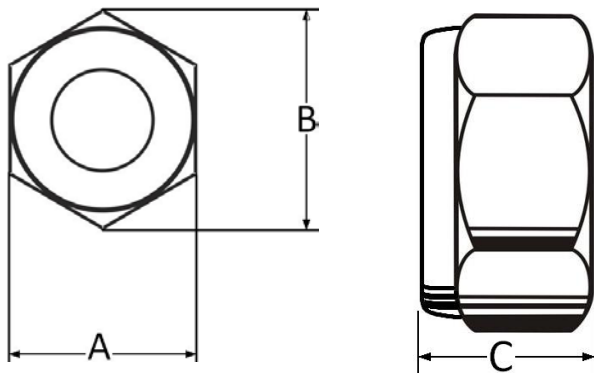


## NYLON INSERT LOCK NUTS

### TECHNICAL INFORMATION

#### ROCKWELL HARDNESS

| Grade | Core Hardness Rockwell |
|-------|------------------------|
| A     | C28 MAX                |
| C     | C26-C34                |



### TECHNICAL INFORMATION

#### DIMENSIONS

| Thread Size | A       | B     | Thickness | Thickness Jam Nylocks |
|-------------|---------|-------|-----------|-----------------------|
| #3          | 1/4     | 0.268 | 0.143     | -                     |
| #4          | 1/4     | 0.268 | 0.143     | 0.109                 |
| #5          | 1/4     | 0.268 | 0.143     | -                     |
| #6          | 5/16    | 0.339 | 0.178     | 0.125                 |
| #8          | 11/32   | 0.374 | 0.229     | 0.187                 |
| #10         | 3/8     | 0.41  | 0.239     | 0.187                 |
| #12         | 7/16    | 0.482 | 0.313     | 0.2                   |
| 1/4         | 7/16    | 0.482 | 0.313     | 0.2                   |
| 5/16        | 1/2     | 0.552 | 0.344     | 0.25                  |
| 3/8         | 9/16    | 0.622 | 0.453     | 0.27                  |
| 7/16        | 5/8     | 0.698 | 0.453     | 0.31                  |
| 1/2         | 3/4     | 0.837 | 0.594     | 0.31                  |
| 9/16        | 7/8     | 0.978 | 0.641     | 0.36                  |
| 5/8         | 15/16   | 1.051 | 0.75      | 0.39                  |
| 3/4         | 11/16   | 1.191 | 0.875     | 0.41                  |
| 7/8         | 1 1/4   | 1.403 | 0.984     | 0.47                  |
| 1           | 1 7/16  | 1.615 | 1.042     | 0.55                  |
| 1 1/8       | 1 5/8   | 1.83  | 1.17      | 0.64                  |
| 1 1/4       | 1 13/16 | 2.04  | 1.39      | 0.73                  |
| 1 1/2       | 2 3/16  | 2.42  | 1.61      | 0.8                   |

#### GRADE A ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

Nylon Insert Lock Nuts Grade A are designed with a nylon collar which provides the locking action. They can be reused oftener than any other style of common lock nut. They are to be used with similar material and grade screws and bolts.



| Part #  | Size    | Shop Pack Qty | Bulk Qty | Part # | Size    | Shop Pack Qty | Bulk Qty |
|---------|---------|---------------|----------|--------|---------|---------------|----------|
| FLNN004 | #4-40   | 100           | 5000     | FLNN07 | 7/16-14 | 50            | 2000     |
| FLNN006 | #6-32   | 100           | 5000     | FLNN08 | 1/2-13  | 50            | 1000     |
| FLNN008 | #8-32   | 100           | 5000     | FLNN09 | 9/16    | 25            | 800      |
| FLNN010 | #10-24  | 100           | 5000     | FLNN10 | 5/8-11  | 25            | 500      |
| FLNN012 | #12-24  | 100           | 5000     | FLNN12 | 3/4-10  | 25            | 400      |
| FLNN04  | 1/4-20  | 100           | 3500     | FLNN14 | 7/8-9   | 15            | 225      |
| FLNN05  | 5/16-18 | 100           | 3000     | FLNN16 | 1-8     | 10            | 150      |
| FLNN06  | 3/8-16  | 100           | 2500     |        |         |               |          |

## NYLON INSERT LOCK NUTS

### GRADE A • FINE THREAD • ZINC PLATED • IMPORTED



| Part #   | Size    | Shop Pack Qty | Bulk Qty | Part #  | Size    | Shop Pack Qty | Bulk Qty |
|----------|---------|---------------|----------|---------|---------|---------------|----------|
| FLNNF010 | #10-32  | 100           | 5000     | FLNNF09 | 9/16-18 | 25            | 400      |
| FLNNF04  | 1/4     | 100           | 5000     | FLNNF10 | 5/8-5/8 | 25            | 550      |
| FLNNF05  | 5/16-24 | 100           | 4000     | FLNNF12 | 3/4-16  | 25            | 350      |
| FLNNF06  | 3/8-24  | 100           | 2500     | FLNNF14 | 7/8-14  | 15            | 225      |
| FLNNF07  | 7/16-20 | 50            | 2000     | FLNNF16 | 1-14    | 10            | 150      |
| FLNNF08  | 1/2-20  | 50            | 1000     |         |         |               |          |

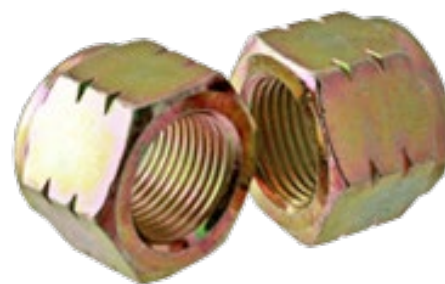
### COARSE THREAD • BLACK • IMPORTED

| Part #   | Size    | Grade | Finish     | Shop Pack Qty | Bulk Qty |
|----------|---------|-------|------------|---------------|----------|
| FLNNCB05 | 5/16-18 | C     | Phos & Oil | 100           | 3000     |
| FLNNB07  | 7/16-14 | A     | Black Zinc | 50            | 2000     |



### GRADE C • COARSE THREAD • YELLOW ZINC PLATED • IMPORTED

Nylon Insert Lock Nuts Grade C are same in design and purpose as the grade A but are designed to use with bolts up to grade 8.



| Part #  | Size    | Shop Pack Qty | Bulk Qty | Part #  | Size    | Shop Pack Qty | Bulk Qty |
|---------|---------|---------------|----------|---------|---------|---------------|----------|
| FLNNC04 | 1/4-20  | 100           | 3500     | FLNNC10 | 5/8-11  | 25            | 500      |
| FLNNC05 | 5/16-18 | 100           | 3000     | FLNNC12 | 3/4-10  | 25            | 400      |
| FLNNC06 | 3/8-16  | 100           | 2500     | FLNNC14 | 7/8-9   | 15            | 250      |
| FLNNC07 | 7/16-14 | 50            | 1000     | FLNNC16 | 1-8     | 10            | 175      |
| FLNNC08 | 1/2-13  | 50            | 1000     | FLNNC20 | 1 1/4-7 | 3             | 35       |
| FLNNC09 | 9/16-12 | 50            | 800      |         |         |               |          |

## GRADE C • FINE THREAD • YELLOW ZINC PLATED • IMPORTED

| Part #   | Size     | Shop Pack Qty | Bulk Qty |
|----------|----------|---------------|----------|
| FLNNCF06 | 3/8-24   | 100           | 2000     |
| FLNNCF07 | 7/16-20  | 50            | 2000     |
| FLNNCF08 | 1/2-20   | 50            | 1000     |
| FLNNCF10 | 5/8-18   | 25            | 500      |
| FLNNCF12 | 3/4-16   | 25            | 400      |
| FLNNCF14 | 7/8-14   | 25            | -        |
| FLNNCF16 | 1-14     | 10            | 175      |
| FLNNCF20 | 1 1/4-12 | 3             | 70       |



## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED



| Part #    | Size   | Shop Pack Qty | Bulk Qty | Part #   | Size    | Shop Pack Qty | Bulk Qty |
|-----------|--------|---------------|----------|----------|---------|---------------|----------|
| FSSLNN004 | #4-40  | 100           | 5000     | FSSLNN05 | 5/16-18 | 100           | 4000     |
| FSSLNN006 | #6-32  | 100           | 7500     | FSSLNN06 | 3/8-16  | 100           | 2500     |
| FSSLNN008 | #8-32  | 100           | 6250     | FSSLNN07 | 7/16-14 | 50            | 2000     |
| FSSLNN010 | #10-24 | 100           | 5000     | FSSLNN08 | 1/2-13  | 50            | 1000     |
| FSSLNN012 | #12-24 | 100           | 4000     | FSSLNN10 | 5/8-11  | 25            | 550      |
| FSSLNN04  | 1/4-20 | 100           | 5000     | FSSLNN12 | 3/4-10  | 25            | 350      |

## 18-8 STAINLESS STEEL • FINE THREAD • IMPORTED

| Part #      | Size    | Shop Pack Qty |
|-------------|---------|---------------|
| FSSLNNF010  | #10-32  | 100           |
| FSSLNNWF010 | #10-32* | 100           |
| FSSLNNF04   | 1/4-28  | 100           |
| FSSLNNF05   | 5/16-24 | 100           |
| FSSLNNF06   | 3/8-24  | 100           |
| FSSLNNF08   | 1/2-20  | 50            |



\*Waxed

## NYLON INSERT LOCK NUTS, JAM NYLON INSERT LOCK NUTS

### 18-8 STAINLESS STEEL ▪ WAXED ▪ COARSE THREAD ▪ IMPORTED

**GALLING:** Thread galling or cold welding is a problem often seen in stainless steel, especially when using a lock nut. It occurs during installation when pressure or friction causes the bolt threads to seize to the threads of a nut. **PREVENTION:** Slow down installation speed since heat is a factor in galling. Lubricate with an anti-seize or WD-40 or use waxed nylon insert lock nuts. Avoid dirty or damaged threads. If you feel a fastener beginning to bind, stop. Wait a few minutes to let heat dissipate then try backing the nut off.



| Part #     | Size    | Shop Pack Qty | Bulk Qty |
|------------|---------|---------------|----------|
| FSSLNNW008 | #8-32   | 100           | 5000     |
| FSSLNNW010 | #10-24  | 100           | 5000     |
| FSSLNNW04  | 1/4-20  | 100           | 3500     |
| FSSLNNW05  | 5/16-18 | 100           | 3000     |
| FSSLNNW06  | 3/8-16  | 100           | 2500     |
| FSSLNNW07  | 7/16-14 | 50            | 1500     |
| FSSLNNW08  | 1/2-13  | 50            | 1000     |
| FSSLNNW10  | 5/8-11  | 25            | 400      |

### JAM NYLON INSERT LOCK NUTS

#### GRADE A ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

Jam Nylon Insert Lock Nuts Grade A are same in purpose as a standard pattern nylock but are for use where there are not enough threads projecting to use the standard nylock.



| Part #   | Size    | Shop Pack Qty | Bulk Qty |
|----------|---------|---------------|----------|
| FJLNN008 | #8-32   | 100           | 5000     |
| FJLNN04  | 1/4-20  | 100           | 3500     |
| FJLNN05  | 5/16-18 | 100           | 3000     |
| FJLNN06  | 3/8-16  | 100           | 2500     |
| FJLNN07  | 7/16-14 | 100           | -        |
| FJLNN08  | 1/2-13  | 50            | 1000     |
| FJLNN10  | 5/8-11  | 50            | 500      |
| FJLNN12  | 3/4-10  | 50            | 400      |
| FJLNN14  | 7/8-9   | 15            | 250      |
| FJLNN16  | 1-8     | 10            | 175      |

## GRADE A • FINE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size    | Shop Pack Qty | Bulk Qty |
|----------|---------|---------------|----------|
| FJLNNF04 | 1/4-28  | 100           | -        |
| FJLNNF05 | 5/16-24 | 100           | 3000     |
| FJLNNF06 | 3/8-24  | 100           | 2500     |
| FJLNNF07 | 7/16-20 | 100           | -        |
| FJLNNF08 | 1/2-20  | 50            | 1000     |
| FJLNNF10 | 5/8-18  | 25            | 500      |
| FJLNNF12 | 3/4-16  | 25            | 400      |
| FJLNNF14 | 7/8-14  | 15            | -        |
| FJLNNF16 | 1-14    | 10            | -        |



## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

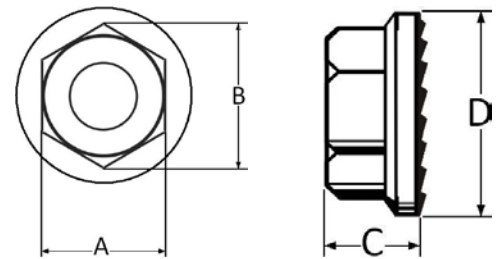
| Part #    | Size    | Shop Pack Qty | Bulk Qty |
|-----------|---------|---------------|----------|
| FSSJLNN04 | 1/4-20  | 100           | -        |
| FSSJLNN05 | 5/16-18 | 100           | 3000     |
| FSSJLNN06 | 3/8-16  | 100           | 2500     |



## SERRATED FLANGE NUTS

## TECHNICAL INFORMATION

### DIMENSIONS



| Thread Size | A     | B     | Standard |       | Large Flange |       |
|-------------|-------|-------|----------|-------|--------------|-------|
|             |       |       | C        | D     | C            | D     |
| #8          | 11/32 | 0.387 | 0.195    | 15/32 | -            | -     |
| #10         | 3/8   | 0.423 | 0.211    | 1/2   | -            | -     |
| 1/4         | 7/16  | 0.493 | 0.229    | 19/32 | 0.297        | 11/16 |
| 5/16        | 1/2   | 0.567 | 0.276    | 11/16 | 0.359        | 13/16 |
| 3/8         | 9/16  | 0.639 | 0.339    | 3/4   | 0.398        | 29/32 |
| 7/16        | 11/16 | 0.781 | 0.385    | 15/16 | -            | -     |
| 1/2         | 3/4   | 0.853 | 0.448    | 11/32 | -            | -     |
| 5/8         | 15/16 | 1.067 | 0.557    | 19/32 | -            | -     |
| 3/4         | 1 1/8 | 1.27  | 0.651    | 1 1/2 | -            | -     |

## SERRATED FLANGE NUTS

### CASE HARDENED • COARSE THREAD • ZINC PLATED • IMPORTED

Serrated Flange Nuts are a easy way to put a washer and nut on in one step. The serrations on the Flange also "bite" into the material they are tightened against to make it more difficult for them to be loosened.



| Part #  | Size    | Shop Pack Qty | Bulk Qty | Part #       | Size     | Shop Pack Qty | Bulk Qty |
|---------|---------|---------------|----------|--------------|----------|---------------|----------|
| FFNS006 | 6-32    | 100           | 5000     | FFNS07       | 7/16-14  | 50            | 1200     |
| FFNS008 | #8-32   | 100           | 5000     | FFNS07Y      | 7/16-14* | 50            |          |
| FFNS010 | #10-24  | 100           | 5000     | FFNS08       | 1/2-13   | 50            | 800      |
| FFNS012 | #12-24  | 100           | -        | FFNS10       | 5/8-11   | 25            | 400      |
| FFNS04  | 1/4-20  | 100           | 3500     | FFNS12       | 3/4-10   | 25            | 250      |
| FFNS05  | 5/16-18 | 100           | 3000     | *Yellow Zinc |          |               |          |
| FFNS06  | 3/8-16  | 100           | 2000     |              |          |               |          |

### CASE HARDENED • FINE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size    | Shop Pack Qty | Bulk Qty |
|---------|---------|---------------|----------|
| FFNSF05 | 5/16-24 | 100           | -        |
| FFNSF06 | 3/8-24  | 100           | 2000     |
| FFNSF07 | 7/16-20 | 50            | 1200     |
| FFNSF08 | 1/2-20  | 50            | 800      |



### GRADE 8 • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size   | Shop Pack Qty | Bulk Qty |
|---------|--------|---------------|----------|
| FFNS806 | 3/8-16 | 100           | 1900     |



### 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #     | Size    | Shop Pack Qty | Bulk Qty |
|------------|---------|---------------|----------|
| FSSFNS008  | #8-32   | 100           | 5000     |
| FSSFNS010  | #10-24  | 100           | 5000     |
| FSSFNSF010 | #10-32* | 100           | 8000     |
| FSSFNS04   | 1/4-20  | 100           | 3500     |
| FSSFNS05   | 5/16-18 | 100           | 3000     |
| FSSFNS06   | 3/8-16  | 100           | 3000     |
| FSSFNS08   | 1/2-13  | 50            | 1000     |

\*Fine Thread



# SERRATED FLANGE NUTS, NON SERRATED FLANGE NUTS, ALL METAL TOP LOCK NUTS

**LARGE FLANGE • CASE HARDENED • COARSE THREAD • ZINC PLATED • IMPORTED**

| Part # | Size    | Shop Pack Qty | Bulk Qty |
|--------|---------|---------------|----------|
| FFNLO4 | 1/4-20  | 100           | 3500     |
| FFNLO5 | 5/16-18 | 100           | -        |
| FFNLO6 | 3/8-16  | 100           | 1300     |



## NON SERRATED FLANGE NUTS

**GRADE 8 • COARSE THREAD • PHOS & OIL • IMPORTED**

Free Spinning Flange Nuts are an easy way to put a washer and nut on in one step. Use these with a Grade 8 Flange Bolt when you desire a non-locking Flange Nut.

| Part #  | Size    | Package Qty | Bulk Qty |
|---------|---------|-------------|----------|
| FFN04   | 1/4-20  | 100         | -        |
| FFN05   | 5/16-18 | 100         | -        |
| FFN06   | 3/8-16  | 100         | 1900     |
| FFN808  | 1/2-13  | 50          | 850      |
| FFNP08* | 1/2-13  | 50          | -        |



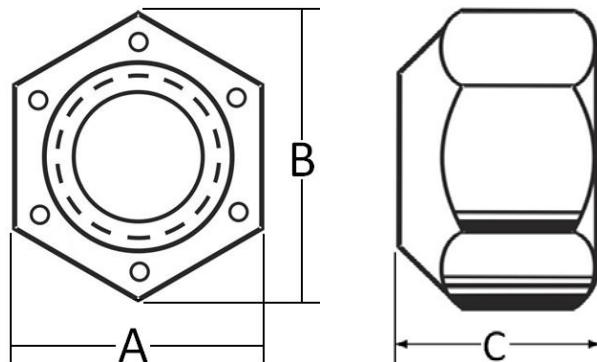
\*Plain Finish

## ALL METAL TOP LOCK NUTS

## TECHNICAL INFORMATION

### DIMENSIONS

| Thread Size | A       | B     | C      |
|-------------|---------|-------|--------|
| 1/4         | 7/16    | 0.493 | 7/32   |
| 5/16        | 1/2     | 0.567 | 17/64  |
| 3/8         | 9/16    | 0.639 | 21/64  |
| 7/16        | 11/16   | 0.781 | 3/8    |
| 1/2         | 3/4     | 0.853 | 7/16   |
| 9/16        | 7/8     | 0.986 | 31/64  |
| 5/8         | 15/16   | 1.067 | 35/64  |
| 3/4         | 1 1/8   | 1.27  | 41/64  |
| 7/8         | 1 5/16  | 1.482 | 3/4    |
| 1           | 1 1/2   | 1.693 | 55/64  |
| 1 1/8       | 1 11/16 | 1.904 | 31/32  |
| 1 1/4       | 1 7/8   | 2.116 | 1 1/16 |
| 1 1/2       | 2 1/4   | 2.539 | 1 9/32 |
| 1 3/4       | 2 5/8   | 2.962 | 1 1/2  |





## ALL METAL TOP LOCK NUTS

### GRADE C • COARSE THREAD • ZINC & WAX • IMPORTED

All Metal Top Lock Nuts Grade C are the toughest type of common lock nut. They can withstand hotter temperatures than a nylock. They are best used with a grade 5 or 8 bolt.



| Part # | Size    | Shop Pack Qty | Bulk Qty |
|--------|---------|---------------|----------|
| FLNC04 | 1/4-20  | 100           | 5000     |
| FLNC05 | 5/16-18 | 100           | 2500     |
| FLNC06 | 3/8-16  | 100           | 2500     |
| FLNC07 | 7/16-14 | 50            | 1500     |
| FLNC08 | 1/2-13  | 50            | 750      |
| FLNC09 | 9/16-12 | 25            | 1000     |
| FLNC10 | 5/8-11  | 25            | 400      |

| Part # | Size    | Shop Pack Qty | Bulk Qty |
|--------|---------|---------------|----------|
| FLNC12 | 3/4-10  | 25            | 250      |
| FLNC14 | 7/8-9   | 15            | 150      |
| FLNC16 | 1-8     | 10            | 100      |
| FLNC18 | 1 1/8-7 | 3             | 100      |
| FLNC20 | 1 1/4-7 | 3             | 60       |
| FLNC24 | 1 1/2-6 | 3             | 40       |

### GRADE C • FINE THREAD • ZINC & WAX • IMPORTED



| Part #  | Size    | Shop Pack Qty | Bulk Qty |
|---------|---------|---------------|----------|
| FLNCF04 | 1/4-28  | 100           | 7000     |
| FLNCF05 | 5/16-24 | 100           | 5000     |
| FLNCF06 | 3/8-24  | 100           | 2000     |
| FLNCF07 | 7/16-20 | 50            | 1000     |
| FLNCF08 | 1/2-20  | 50            | 1000     |
| FLNCF09 | 9/16-18 | 25            | 1000     |
| FLNCF10 | 5/8-18  | 25            | 500      |

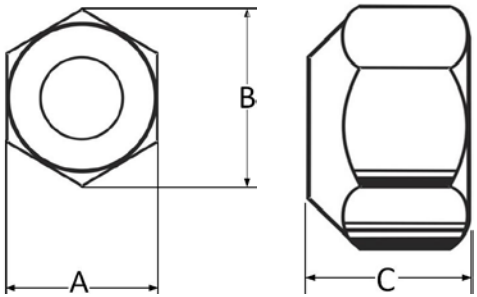
| Part #  | Size     | Shop Pack Qty | Bulk Qty |
|---------|----------|---------------|----------|
| FLNCF12 | 3/4-16   | 25            | 250      |
| FLNCF14 | 7/8-14   | 15            | 150      |
| FLNCF16 | 1-14     | 10            | 200      |
| FLNCF18 | 1 1/8-12 | 3             | 120      |
| FLNCF20 | 1 1/4-12 | 3             | -        |
| FLNCF24 | 1 1/2-12 | 3             | -        |



## COLLAR STYLE ▪ GRADE 9 ▪ COARSE THREAD ▪ CADMIUM YELLOW & WAX ▪ MADE IN USA

### DIMENSIONS

| Thread Size | A     | B     | C     |
|-------------|-------|-------|-------|
| 3/8         | 9/16  | 0.639 | 13/32 |
| 1/2         | 3/4   | 0.853 | 1/2   |
| 5/8         | 15/16 | 1.067 | 21/32 |
| 3/4         | 1 1/8 | 1.27  | 13/16 |



## COLLAR STYLE ▪ GRADE 9 ▪ COARSE THREAD ▪ CADMIUM YELLOW & WAX ▪ MADE IN USA

All Metal Top Lock Nuts Grade 9 are very similar to the Grade C but slightly thicker. They were specifically designed for use with Grade 9 hex cap screws.

| Part #  | Size    | Shop Pack Qty | Bulk Qty |
|---------|---------|---------------|----------|
| FLN9F06 | 3/8-24* | 100           | 2800     |
| FLN908  | 1/2-13  | 50            | 1100     |
| FLN910  | 5/8-11  | 25            | 600      |

\* Fine Thread



## TWO-WAY REVERSIBLE LOCK NUTS

### GRADE A ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

Two-Way Reversible Lock Nuts have the same dimensions as finished hex nuts. They can be turned onto a bolt from either side of the nut and they are all metal so they can withstand higher temperatures than a nylock. An additional advantage they have is they lock before being fully threaded onto a bolt.

| Part # | Size    | Shop Pack Qty | Bulk Qty |
|--------|---------|---------------|----------|
| FLNR04 | 1/4-20  | 100           | 5000     |
| FLNR05 | 5/16-18 | 100           | 3000     |
| FLNR06 | 3/8-16  | 100           | 2000     |
| FLNR07 | 7/16-14 | 50            | 1200     |
| FLNR08 | 1/2-13  | 50            | 800      |
| FLNR09 | 9/16-12 | 25            | 500      |
| FLNR10 | 5/8-11  | 25            | 500      |
| FLNR12 | 3/4-10  | 25            | 250      |
| FLNR14 | 7/8-9   | 15            | 200      |
| FLNR16 | 1-8     | 10            | 150      |



## TWO-WAY REVERSIBLE LOCK NUTS

### GRADE A • FINE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size    | Shop Pack Qty | Bulk Qty |
|---------|---------|---------------|----------|
| FLNRF04 | 1/4-28  | 100           | -        |
| FLNRF05 | 5/16-24 | 100           | 3000     |
| FLNRF06 | 3/8-24  | 100           | 2000     |
| FLNRF07 | 7/16-20 | 50            | -        |
| FLNRF08 | 1/2-20  | 50            | -        |
| FLNRF09 | 9/16-18 | 25            | -        |



### GRADE 8 • COARSE THREAD • YELLOW ZINC • IMPORTED

| Part #  | Size    | Shop Pack Qty |
|---------|---------|---------------|
| FLNR804 | 1/4-20  | 100           |
| FLNR805 | 5/16-18 | 100           |
| FLNR806 | 3/8-16  | 100           |
| FLNR807 | 7/16-14 | 50            |
| FLNR808 | 1/2-13  | 50            |
| FLNR810 | 5/8-11  | 25            |
| FLNR812 | 3/4-10  | 25            |
| FLNR814 | 7/8-9   | 15            |
| FLNR816 | 1-8     | 10            |



### 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #   | Size    | Shop Pack Qty | Bulk Qty |
|----------|---------|---------------|----------|
| FSSLNR04 | 1/4-20  | 100           | 5000     |
| FSSLNR05 | 5/16-18 | 100           | 3000     |
| FSSLNR06 | 3/8-16  | 100           | 2000     |



## KEPS NUTS

### GRADE A ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

Keps Nuts have their own lock washer preassembled which allows for a quicker and easier assembly. Wrench size is the same as a finished hex nut.

| Part #  | Size    | Shop Pack Qty | Bulk Qty |
|---------|---------|---------------|----------|
| FKN006  | #6-32   | 100           | 5000     |
| FKN008  | #8-32   | 100           | 5000     |
| FKN010  | #10-24  | 100           | 5000     |
| FKNF010 | #10-32* | 100           | 5000     |
| FKN012  | #12-24  | 100           | 5000     |
| FKN04   | 1/4-20  | 100           | 3500     |
| FKN05   | 5/16-18 | 100           | 3000     |
| FKNF06  | 3/8-24* | 100           | 2000     |

\*Fine Thread



### 18-8 STAINLESS STEEL ▪ COARSE THREAD ▪ IMPORTED

| Part #    | Size    | Shop Pack Qty | Bulk Qty |
|-----------|---------|---------------|----------|
| FSSKN006  | #6-32   | 100           | 5000     |
| FSSKN008  | #8-32   | 100           | 5000     |
| FSSKN010  | #10-24  | 100           | 5000     |
| FSSKNF010 | #10-32* | 100           | -        |
| FSSKN04   | 1/4-20  | 100           | 3500     |
| FSSKN05   | 5/16-18 | 100           | -        |
| FSSKN06   | 3/8-16  | 100           | -        |

\*Fine Thread



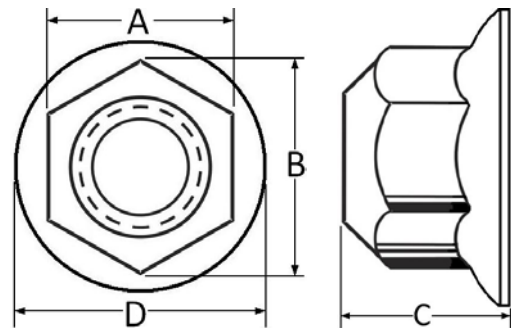
## FLANGE LOCK NUTS (FRAME NUTS)

### FLANGE LOCK NUTS (FRAME NUTS)

### TECHNICAL INFORMATION

#### DIMENSIONS

| Thread Size | A      | B     | C     | D       |
|-------------|--------|-------|-------|---------|
| 5/16        | 1/2    | 0.567 | 0.343 | 11/16   |
| 3/8         | 9/16   | 0.639 | 0.415 | 13/16   |
| 7/16        | 11/16  | 0.781 | 0.466 | 15/16   |
| 1/2         | 3/4    | 0.853 | 0.542 | 11/32   |
| 5/8         | 15/16  | 1.067 | 0.668 | 1 21/64 |
| 3/4         | 1 1/8  | 1.27  | 0.775 | 1 9/16  |
| 7/8         | 1 5/16 | 1.482 | 0.766 | 1 23/32 |



#### GRADE G • COARSE THREAD • PHOSPHATE & OIL FINISH • IMPORTED

Flange Lock Nuts Grade G are similar to all metal top lock nuts Grade C with the addition of a flange on the bottom side of the nut. They were specifically designed to be used with Grade 8 flange bolts.

| Part # | Size    | Shop Pack Qty | Bulk Qty |
|--------|---------|---------------|----------|
| FFLN2  | 1/4-20  | 100           | 3500     |
| FFLN25 | 5/16-18 | 100           | 2000     |
| FFLN3  | 3/8-16  | 100           | 2000     |
| FFLN35 | 7/16-14 | 50            | 800      |
| FFLN4  | 1/2-13  | 50            | 600      |
| FFLN4Y | 1/2-13* | 50            | -        |
| FFLN5  | 5/8-11  | 25            | 300      |
| FFLN6  | 3/4-10  | 25            | 200      |
| FFLN7  | 7/8-9   | 15            | 145      |
| FFLN8  | 1-8     | 10            | 108      |

\*Yellow Zinc



#### GRADE G • FINE THREAD • PHOSPHATE & OIL FINISH • IMPORTED

| Part #  | Size    | Shop Pack Qty | Bulk Qty |
|---------|---------|---------------|----------|
| FFLNF35 | 7/16-20 | 50            | 800      |
| FFLNF4  | 1/2-20  | 50            | 700      |
| FFLNF5  | 5/8-18  | 25            | 300      |
| FFLNF6  | 3/4-16  | 25            | 200      |



# FLANGE LOCK NUTS (FRAME NUTS), FLANGE NYLON INSERT LOCK NUTS, FLEX TYPE LOCK NUTS, USS FLAT WASHERS

## GRADE 2 • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size   | Package Qty | Bulk Qty |
|---------|--------|-------------|----------|
| FFLN23Z | 3/8-16 | 500         | 1000     |



## FLANGE NYLON INSERT LOCK NUTS

### COARSE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size    | Shop Pack Qty | Bulk Qty |
|---------|---------|---------------|----------|
| FFLNN04 | 1/4-20  | 100           | -        |
| FFLNN05 | 5/16-18 | 100           | 3200     |



## FLEX TYPE LOCK NUTS

### FINE THREAD • CADMIUM & WAXED • MADE IN USA OR IMPORTED

| Part #   | Size   | Thickness | Shop Pack Qty | Bulk Qty |
|----------|--------|-----------|---------------|----------|
| FLNFF010 | #10-32 | 0.243     | 100           | 1000     |



## USS FLAT WASHERS

## TECHNICAL INFORMATION

### DIMENSIONS

| Washer Size | ID    | OD    | Thickness |       | Washer Size | ID     | OD    | Thickness |       |
|-------------|-------|-------|-----------|-------|-------------|--------|-------|-----------|-------|
|             | Basic |       | Min       | Max   |             | Basic  |       | Min       | Max   |
| #10         | 1/4   | 9/16  | 0.036     | 0.065 | 1           | 1 1/16 | 2 1/2 | 0.136     | 0.192 |
| 1/4         | 5/16  | 3/4   | 0.051     | 0.08  | 1 1/8       | 1 1/4  | 2 3/4 | 0.136     | 0.192 |
| 5/16        | 3/8   | 7/8   | 0.064     | 0.104 | 1 1/4       | 1 3/8  | 3     | 0.153     | 0.213 |
| 3/8         | 7/16  | 1     | 0.064     | 0.104 | 1 3/8       | 1 1/2  | 3 1/4 | 0.153     | 0.213 |
| 7/16        | 1/2   | 1 1/4 | 0.064     | 0.104 | 1 1/2       | 1 5/8  | 3 1/2 | 0.153     | 0.213 |
| 1/2         | 9/16  | 1 3/8 | 0.086     | 0.132 | 1 5/8       | 1 3/4  | 3 3/4 | 0.153     | 0.213 |
| 9/16        | 5/8   | 1 1/2 | 0.086     | 0.132 | 1 3/4       | 1 7/8  | 4     | 0.153     | 0.213 |
| 5/8         | 11/16 | 1 3/4 | 0.108     | 0.16  | 2           | 2 1/8  | 4 1/2 | 0.153     | 0.213 |
| 3/4         | 13/16 | 2     | 0.122     | 0.177 | 2 1/4       | 2 3/8  | 4 3/4 | 0.193     | 0.248 |
| 7/8         | 15/16 | 2 1/4 | 0.136     | 0.192 | 2 1/2       | 2 5/8  | 5     | 0.21      | 0.28  |

## USS FLAT WASHERS

### ZINC PLATED • IMPORTED

USS Flat Washers are the most commonly used flat washer.



| Part # | Size       | Approximate Pieces per Pound | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|--------|------------|------------------------------|---------------|---------------|----------|
| FFW010 | 3/16 (#10) | 393                          | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW04  | 1/4        | 176                          | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW05  | 5/16       | 90                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW06  | 3/8        | 70                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW07  | 7/16       | 44                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW08  | 1/2        | 26                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW09  | 9/16       | 22                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW10  | 5/8        | 15                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW12  | 3/4        | 10                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW14  | 7/8        | 8                            | 1 lbs.        | 5 lbs.        | 50 lbs.  |

| Part # | Size  | Approximate Pieces per Pound | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|--------|-------|------------------------------|---------------|---------------|----------|
| FFW16  | 1     | 6                            | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW18  | 1 1/8 | 5                            | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW20  | 1 1/4 | 4.2                          | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW22  | 1 3/8 | 3.3                          | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW24  | 1 1/2 | 2.8                          | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW26  | 1 5/8 | 2.5                          | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW28  | 1 3/4 | 2                            | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW32  | 2     | 1.6                          | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW36  | 2 1/4 | 1.2                          | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFW40  | 2 1/2 | 1                            | 1 lbs.        | 5 lbs.        | 50 lbs.  |

### PLAIN FINISH • IMPORTED



| Part # | Size | Approximate Pieces per Pound | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|--------|------|------------------------------|---------------|---------------|----------|
| FFWP04 | 1/4  | 176                          | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWP05 | 5/16 | 90                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWP06 | 3/8  | 70                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWP07 | 7/16 | 44                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWP08 | 1/2  | 26                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWP10 | 5/8  | 15                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |

| Part # | Size  | Approximate Pieces per Pound | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|--------|-------|------------------------------|---------------|---------------|----------|
| FFWP12 | 3/4   | 10                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWP14 | 7/8   | 8                            | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWP16 | 1     | 6                            | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWP20 | 1 1/4 | 4.2                          | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWP24 | 1 1/2 | 2.8                          | 1 lbs.        | 5 lbs.        | 50 lbs.  |

## HOT DIP GALVANIZED • IMPORTED

| Part # | Size  | Approximate Pieces per Pound | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|--------|-------|------------------------------|---------------|---------------|----------|
| FFWG04 | 1/4   | 176                          | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWG05 | 5/16  | 90                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWG06 | 3/8   | 70                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWG08 | 1/2   | 26                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWG10 | 5/8   | 15                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWG12 | 3/4   | 10                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWG14 | 7/8   | 8                            | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWG16 | 1     | 6                            | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWG20 | 1 1/4 | 4.2                          | 1 lbs.        | 5 lbs.        | 50 lbs.  |



## GRADE 8 • YELLOW ZINC • MADE IN USA OR IMPORTED

| Part # | Size | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part # | Size  | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|--------|------|---------------|---------------|----------|--------|-------|---------------|---------------|----------|
| FFW804 | 1/4  | 20            | 100           | 6000     | FFW810 | 5/8   | 10            | 50            | 500      |
| FFW805 | 5/16 | 20            | 100           | 3500     | FFW812 | 3/4   | 10            | 50            | 350      |
| FFW806 | 3/8  | 20            | 100           | 2700     | FFW814 | 7/8   | 5             | 25            | 250      |
| FFW807 | 7/16 | 20            | 100           | 1700     | FFW816 | 1     | 5             | 25            | 200      |
| FFW808 | 1/2  | 20            | 100           | 950      | FFW818 | 1 1/8 | 5             | 25            | 180      |
| FFW809 | 9/16 | 10            | 50            | 750      |        |       |               |               |          |



## 18-8 STAINLESS STEEL • IMPORTED

| Part #   | Size | Farm Pack Qty | Package Qty | Bulk Qty |
|----------|------|---------------|-------------|----------|
| FSSFW809 | 3/16 | 20            | 100         | -        |
| FSSFW811 | 1/4  | 20            | 100         | 9000     |
| FSSFW813 | 5/16 | 20            | 100         | 3000     |
| FSSFW815 | 3/8  | 20            | 100         | 3000     |
| FSSFW817 | 7/16 | 10            | 50          | 2200     |
| FSSFW819 | 1/2  | 20            | 100         | 1310     |
| FSSFW821 | 5/8  | 10            | 50          | -        |





## EXTRA THICK USS FLAT WASHERS, THICK USS FLAT WASHERS

### EXTRA THICK USS FLAT WASHERS

#### GRADE 8 • YELLOW ZINC PLATED • MADE IN USA

Thick USS Flat Washers Grade 8 are thicker than regular USS flat washers and have a Rockwell hardness of C38-C45 for heavy duty applications.

| Part #    | Size | Min Thickness | Max Thickness | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-----------|------|---------------|---------------|---------------|---------------|----------|
| FFW8ETU04 | 1/4  | 0.090         | 0.110         | 10            | 50            | -        |
| FFW8ETU05 | 5/16 | 0.090         | 0.110         | 20            | 100           | 2500     |
| FFW8ETU06 | 3/8  | 0.110         | 0.126         | 20            | 100           | 1700     |
| FFW8ETU07 | 7/16 | 0.110         | 0.126         | 20            | 100           | 1750     |
| FFW8ETU09 | 9/16 | 0.156         | 0.188         | 10            | 50            | 500      |
| FFW8ETU14 | 7/8  | 0.235         | 0.265         | 5             | 25            | 150      |



### THICK USS FLAT WASHERS

#### GRADE 9 • YELLOW ZINC PLATED • MADE IN USA

| Part #    | Size | Min Thickness | Max Thickness | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-----------|------|---------------|---------------|---------------|---------------|----------|
| FFW9ETU06 | 3/8  | 0.079         | 0.093         | 20            | 100           | 2300     |
| FFW9ETU07 | 7/16 | 0.090         | 0.106         | 20            | 100           | 1250     |
| FFW9ETU08 | 1/2  | 0.122         | 0.146         | 20            | 100           | 770      |
| FFW9ETU10 | 5/8  | 0.136         | 0.160         | 10            | 50            | 420      |
| FFW9ETU12 | 3/4  | 0.136         | 0.160         | 10            | 50            | 320      |
| FFW9ETU16 | 1    | 0.136         | 0.160         | 5             | 25            | 210      |



## SAE FLAT WASHERS

## TECHNICAL INFORMATION

## DIMENSIONS

| Washer Size | ID     | OD     | Thickness |       |
|-------------|--------|--------|-----------|-------|
|             | Basic  |        | Min       | Max   |
| #4          | 1/8    | 5/16   | 0.025     | 0.04  |
| #6          | 5/32   | 3/8    | 0.036     | 0.065 |
| #8          | 3/16   | 7/16   | 0.036     | 0.065 |
| #10         | 7/32   | 1/2    | 0.036     | 0.065 |
| #12         | 1/4    | 9/16   | 0.051     | 0.08  |
| 1/4         | 9/32   | 5/8    | 0.051     | 0.08  |
| 5/16        | 11/32  | 11/16  | 0.051     | 0.08  |
| 3/8         | 13/32  | 13/16  | 0.051     | 0.08  |
| 7/16        | 15/32  | 59/64  | 0.051     | 0.08  |
| 1/2         | 17/32  | 1 1/16 | 0.074     | 0.121 |
| 9/16        | 19/32  | 1 3/16 | 0.074     | 0.121 |
| 5/8         | 21/32  | 1 5/16 | 0.074     | 0.121 |
| 3/4         | 13/16  | 1 1/2  | 0.108     | 0.16  |
| 7/8         | 15/16  | 1 3/4  | 0.108     | 0.16  |
| 1           | 11/16  | 2      | 0.108     | 0.16  |
| 1 1/8       | 1 3/16 | 2 1/4  | 0.108     | 0.16  |
| 1 1/4       | 1 5/16 | 2 1/2  | 0.136     | 0.192 |
| 1 3/8       | 1 7/16 | 2 3/4  | 0.136     | 0.213 |
| 1 1/2       | 1 9/16 | 3      | 0.153     | 0.213 |

## SAE FLAT WASHERS

### ZINC PLATED • IMPORTED

SAE Flat Washers have a smaller OD than USS Flat Washers and fit tighter on a bolt.



| Part #  | Size | Approximate Pieces per Pound | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part # | Size  | Approximate Pieces per Pound | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|---------|------|------------------------------|---------------|---------------|----------|--------|-------|------------------------------|---------------|---------------|----------|
| FFWS004 | #4   | -                            | 20 PC.        | 100 PC.       | -        | FFWS08 | 1/2   | 56                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWS006 | #6   | -                            | 20 PC.        | 100 PC.       | 37040    | FFWS09 | 9/16  | 45                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWS008 | #8   | -                            | 20 PC.        | 100 PC.       | 30000    | FFWS10 | 5/8   | 37                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWS010 | #10  | 455                          | 1 lbs.        | 5 lbs.        | 50 lbs.  | FFWS12 | 3/4   | 21                           | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWS012 | #12  | -                            | 20 PC.        | 100 PC.       | 13500    | FFWS14 | 7/8   | 15.5                         | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWS04  | 1/4  | 222                          | 1 lbs.        | 5 lbs.        | 50 lbs.  | FFWS16 | 1     | 11.7                         | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWS05  | 5/16 | 195                          | 1 lbs.        | 5 lbs.        | 50 lbs.  | FFWS18 | 1 1/8 | 9.2                          | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWS06  | 3/8  | 140                          | 1 lbs.        | 5 lbs.        | 50 lbs.  | FFWS20 | 1 1/4 | 4.7                          | 1 lbs.        | 5 lbs.        | 50 lbs.  |
| FFWS07  | 7/16 | 110                          | 1 lbs.        | 5 lbs.        | 50 lbs.  | FFWS24 | 1 1/2 | 4.6                          | 1 lbs.        | 5 lbs.        | 52 lbs.  |

### PLAIN FINISH • IMPORTED

| Part #  | Size  | Approximate Pieces per Pound | Shop Pack Qty | Bulk Qty |
|---------|-------|------------------------------|---------------|----------|
| FFWSP10 | 5/8   | 37                           | 2 lbs.        | 50 lbs.  |
| FFWSP12 | 3/4   | 21                           | 2 lbs.        | 50 lbs.  |
| FFWSP22 | 1 3/8 | 5                            | 2 lbs.        | 50 lbs.  |



### GRADE 8 • YELLOW ZINC PLATED • MADE IN USA OR IMPORTED



| Part #  | Size | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #  | Size  | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|---------|------|---------------|---------------|----------|---------|-------|---------------|---------------|----------|
| FFW8S04 | 1/4  | 20            | 100           | 7800     | FFW8S12 | 3/4   | 10            | 50            | 800      |
| FFW8S05 | 5/16 | 20            | 100           | 7000     | FFW8S14 | 7/8   | 5             | 25            | 500      |
| FFW8S06 | 3/8  | 20            | 100           | 5000     | FFW8S16 | 1     | 5             | 25            | 500      |
| FFW8S07 | 7/16 | 20            | 100           | 4000     | FFW8S18 | 1 1/8 | 5             | 25            | 300      |
| FFW8S08 | 1/2  | 20            | 100           | 1700     | FFW8S20 | 1 1/4 | 5             | 25            | 250      |
| FFW8S09 | 9/16 | 10            | 50            | 1500     | FFW8S24 | 1 1/2 | 5             | 25            | 180      |
| FFW8S10 | 5/8  | 10            | 50            | 920      |         |       |               |               |          |

# SAE FLAT WASHERS, THICK SAE FLAT WASHERS, EXTRA THICK SAE FLAT WASHERS

## 18-8 STAINLESS STEEL • IMPORTED

| Part #    | Size | Farm Pack Qty | Package Qty | Bulk Qty |
|-----------|------|---------------|-------------|----------|
| FSSFWS008 | #8   | 20            | 100         | 27620    |
| FSSFWS010 | #10  | 20            | 100         | 21460    |
| FSSFWS04  | 1/4  | 20            | 100         | 5000     |
| FSSFWS05  | 5/16 | 20            | 100         | 9600     |
| FSSFWS06  | 3/8  | 20            | 100         | 6900     |
| FSSFWS07  | 7/16 | 20            | 100         | -        |
| FSSFWS08  | 1/2  | 20            | 100         | 2650     |



## THICK SAE FLAT WASHERS

### GRADE 9 • YELLOW ZINC PLATED • MADE IN USA

Thick SAE Flat Washers Grade 9 are thicker than regular SAE flat washers and have a Rockwell hardness of C38-C45 for heavy duty applications

| Part #   | Size | Min Thickness | Max Thickness | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|----------|------|---------------|---------------|---------------|---------------|----------|
| FFW9ET05 | 5/16 | 0.079         | 0.093         | 20            | 100           | 5400     |
| FFW9ET06 | 3/8  | 0.079         | 0.093         | 20            | 100           | 3700     |
| FFW9ET07 | 7/16 | 0.090         | 0.106         | 20            | 100           | 2700     |
| FFW9ET08 | 1/2  | 0.122         | 0.146         | 20            | 100           | 1500     |
| FFW9ET10 | 5/8  | 0.136         | 0.160         | 10            | 50            | 900      |
| FFW9ET12 | 3/4  | 0.136         | 0.160         | 10            | 50            | 700      |
| FFW9ET14 | 7/8  | 0.136         | 0.160         | 5             | 25            | 500      |
| FFW9ET16 | 1    | 0.136         | 0.160         | 5             | 25            | 400      |



## EXTRA THICK SAE FLAT WASHERS

### GRADE 8 • YELLOW ZINC PLATED • MADE IN USA

Extra Thick SAE Flat Washers Grade 8 are the thickest flat washers we carry and are hardened to a Rockwell hardness of C38-C45 for the most heavy duty applications

| Part #   | Size | Min Thickness | Max Thickness | Farm Pack Qty | Shop Pack Qty | Part #   | Size  | Min Thickness | Max Thickness | Farm Pack Qty | Shop Pack Qty |
|----------|------|---------------|---------------|---------------|---------------|----------|-------|---------------|---------------|---------------|---------------|
| FFW8ET04 | 1/4  | 0.090         | 0.110         | 20            | 100           | FFW8ET12 | 3/4   | 0.170         | 0.195         | 10            | 50            |
| FFW8ET05 | 5/16 | 0.090         | 0.110         | 20            | 100           | FFW8ET14 | 7/8   | 0.235         | 0.265         | 5             | 25            |
| FFW8ET06 | 3/8  | 0.110         | 0.126         | 20            | 100           | FFW8ET16 | 1     | 0.235         | 0.265         | 5             | 25            |
| FFW8ET07 | 7/16 | 0.110         | 0.126         | 20            | 100           | FFW8ET18 | 1 1/8 | 0.235         | 0.265         | 5             | 25            |
| FFW8ET08 | 1/2  | 0.156         | 0.188         | 20            | 100           | FFW8ET20 | 1 1/4 | 0.235         | 0.265         | 5             | 25            |
| FFW8ET09 | 9/16 | 0.156         | 0.188         | 10            | 50            | FFW8ET24 | 1 1/2 | 0.286         | 0.340         | 2             | 10            |
| FFW8ET10 | 5/8  | 0.170         | 0.195         | 10            | 50            |          |       |               |               |               |               |



## STAINLESS STEEL FLAT WASHERS

## STAINLESS STEEL FLAT WASHERS

### DIMENSIONS

| Washer Size | ID    | OD    | Thickness |       |
|-------------|-------|-------|-----------|-------|
|             |       |       | Max       | Min   |
| #4          | 0.125 | 0.312 | 0.04      | 0.025 |
| #6          | 0.156 | 0.375 | 0.065     | 0.036 |
| #8          | 0.188 | 0.438 | 0.065     | 0.036 |
| #10         | 0.195 | 0.354 | 0.07      | 0.056 |
| #12         | 0.25  | 0.562 | 0.057     | 0.043 |
| 1/4         | 0.281 | 0.625 | 0.057     | 0.043 |
| 5/16        | 0.343 | 0.75  | 0.057     | 0.043 |
| 3/8         | 0.406 | 0.875 | 0.057     | 0.043 |
| 7/16        | 0.5   | 1.125 | 0.069     | 0.055 |
| 1/2         | 0.531 | 1.25  | 0.069     | 0.055 |
| 5/8         | 0.687 | 1.5   | 0.085     | 0.071 |
| 3/4         | 0.812 | 1.875 | 0.116     | 0.102 |
| 7/8         | 0.937 | 2     | 0.116     | 0.102 |
| 1           | 1.062 | 2     | 0.132     | 0.118 |

### 18-8 STAINLESS STEEL • IMPORTED

These flat washers are the standard flat washer in stainless steel.



| Part #   | Size | Farm Pack Qty | Package Qty | Bulk Qty | Part #  | Size | Farm Pack Qty | Package Qty | Bulk Qty |
|----------|------|---------------|-------------|----------|---------|------|---------------|-------------|----------|
| FSSFW004 | #4   | 20            | 100         | 20000    | FSSFW06 | 3/8  | 20            | 100         | 4000     |
| FSSFW006 | #6   | 20            | 100         | -        | FSSFW07 | 7/16 | 20            | 100         | 2200     |
| FSSFW008 | #8   | 20            | 100         | -        | FSSFW08 | 1/2  | 20            | 100         | 1300     |
| FSSFW010 | #10  | 20            | 100         | -        | FSSFW09 | 9/16 | 10            | 50          | 1000     |
| FSSFW012 | #12  | 20            | 100         | -        | FSSFW10 | 5/8  | 10            | 50          | 750      |
| FSSFW04  | 1/4  | 20            | 100         | 9000     | FSSFW12 | 3/4  | 10            | 50          | 500      |
| FSSFW05  | 5/16 | 20            | 100         | 4500     | FSSFW16 | 1    | 5             | 25          | -        |

## EXTRA THICK STAINLESS STEEL FLAT WASHERS

## SMALL OD • 300 SERIES STAINLESS STEEL • MADE IN USA

## DIMENSIONS

| Washer Size | ID    | OD    | Thickness |
|-------------|-------|-------|-----------|
| 1/4         | 9/32  | 1/2   | 5/64      |
| 5/16        | 11/32 | 5/8   | 3/32      |
| 3/8         | 13/32 | 13/16 | 1/8       |

## SMALL OD • 300 SERIES STAINLESS STEEL • MADE IN USA

| Part #    | Size | ID    | OD    | Thickness | Farm Pack Qty | Package Qty |
|-----------|------|-------|-------|-----------|---------------|-------------|
| FSSFWET04 | 1/4  | 9/32  | 1/2   | 5/64      | 20            | 100         |
| FSSFWET05 | 5/16 | 11/32 | 5/8   | 3/32      | 20            | 100         |
| FSSFWET06 | 3/8  | 13/32 | 13/16 | 1/8       | 20            | 100         |
| FSSFWET07 | 7/16 | 0.469 | 0.922 | 1/8       | 20            | 100         |
| FSSFWET08 | 1/2  | 0.561 | 1.062 | 0.188     | 10            | 50          |



## LARGE OD • 300 SERIES STAINLESS STEEL • MADE IN USA

## DIMENSIONS

| Washer Size | ID    | OD  | Thickness |
|-------------|-------|-----|-----------|
| 1/4         | 9/32  | 5/8 | 1/8       |
| 5/16        | 11/32 | 3/4 | 1/8       |
| 3/8         | 13/32 | 1   | 1/8       |

## LARGE OD • 300 SERIES STAINLESS STEEL • MADE IN USA

| Part #     | Size | ID    | OD  | Thickness | Farm Pack Qty | Package Qty |
|------------|------|-------|-----|-----------|---------------|-------------|
| FSSFWETU05 | 5/16 | 11/32 | 3/4 | 1/8       | 20            | 100         |
| FSSFWETU06 | 3/8  | 13/32 | 1   | 1/8       | 20            | 100         |



# CONICAL WASHER PERIPHERY TOOTHED, REGULAR SPLIT LOCK WASHERS

## CONICAL WASHER PERIPHERY TOOTHED

| Part #  | Size | Finish      | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|---------|------|-------------|---------------|---------------|----------|
| FCWT06  | 3/8  | Yellow Zinc | 20            | 100           | 2000     |
| FCWT08  | 1/2  | Yellow Zinc | 20            | 100           | 860      |
| FCWTB08 | 1/2  | Black Zinc  | 20            | 100           | 860      |
| FCWT09  | 9/16 | Phos & Oil  | 10            | 50            | 550      |
| FCWTZ09 | 9/16 | Clear Zinc  | 10            | 50            | 550      |



## REGULAR SPLIT LOCK WASHERS

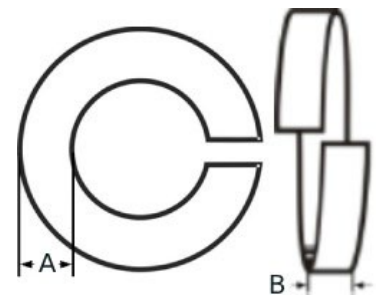
### TECHNICAL INFORMATION

#### DIMENSIONS

| Washer Size | A     | B     | Washer Size | A     | B     | Washer Size | A     | B     | Washer Size | A     | B     |
|-------------|-------|-------|-------------|-------|-------|-------------|-------|-------|-------------|-------|-------|
| #8          | 0.04  | 0.055 | 3/8         | 0.141 | 0.094 | 3/4         | 0.234 | 0.188 | 1 3/8       | 0.344 | 0.391 |
| #10         | 0.047 | 0.062 | 7/16        | 0.156 | 0.109 | 7/8         | 0.266 | 0.219 | 1 1/2       | 0.375 | 0.422 |
| #12         | 0.056 | 0.07  | 1/2         | 0.171 | 0.125 | 1           | 0.297 | 0.25  | 1 3/4       | 0.389 | 0.424 |
| 1/4         | 0.109 | 0.062 | 9/16        | 0.188 | 0.141 | 1 1/8       | 0.281 | 0.328 |             |       |       |
| 5/16        | 0.125 | 0.078 | 5/8         | 0.203 | 0.156 | 1 1/4       | 0.312 | 0.359 |             |       |       |

#### ZINC PLATED • MADE IN USA OR IMPORTED

Regular Split Lock Washers lock a regular hex nut onto a bolt with the spring action they provide.



| Part # | Size | Farm Pack Qty | Package Qty | Bulk Qty | Part # | Size  | Farm Pack Qty | Package Qty | Bulk Qty |
|--------|------|---------------|-------------|----------|--------|-------|---------------|-------------|----------|
| FLW006 | #6   | 20            | 100         | 50000    | FLW10  | 5/8   | 20            | 100         | 1500     |
| FLW008 | #8   | 20            | 100         | 50000    | FLW12  | 3/4   | 10            | 50          | 900      |
| FLW010 | #10  | 20            | 100         | 75000    | FLW14  | 7/8   | 5             | 25          | 600      |
| FLW012 | #12  | 20            | 100         | 45000    | FLW16  | 1     | 5             | 25          | 400      |
| FLW04  | 1/4  | 20            | 100         | 15000    | FLW18  | 1 1/8 | 5             | 25          | 350      |
| FLW05  | 5/16 | 20            | 100         | 10000    | FLW20  | 1 1/4 | 2             | 10          | 250      |
| FLW06  | 3/8  | 20            | 100         | 5000     | FLW22  | 1 3/8 | -             | 3           | 200      |
| FLW07  | 7/16 | 20            | 100         | 3600     | FLW24  | 1 1/2 | -             | 3           | 125      |
| FLW08  | 1/2  | 20            | 100         | 2800     | FLW28  | 1 3/4 | -             | 3           | -        |
| FLW09  | 9/16 | 20            | 100         | 2000     | FLW32  | 2     | -             | -           | 100      |

## HOT DIP GALVANIZED • IMPORTED

| Part # | Size | Farm Pack Qty | Package Qty | Bulk Qty |
|--------|------|---------------|-------------|----------|
| FLWG05 | 5/16 | 20            | 100         | 12500    |
| FLWG06 | 3/8  | 20            | 100         | 7500     |
| FLWG08 | 1/2  | 20            | 100         | 3500     |
| FLWG10 | 5/8  | 10            | 50          | 1800     |
| FLWG12 | 3/4  | 10            | 50          | 1200     |
| FLWG16 | 1    | 5             | 25          | 500      |



## ALLOY • YELLOW ZINC PLATED • IMPORTED

| Part # | Size | Farm Pack Qty | Package Qty | Bulk Qty | Part # | Size  | Farm Pack Qty | Package Qty | Bulk Qty |
|--------|------|---------------|-------------|----------|--------|-------|---------------|-------------|----------|
| FLW804 | 1/4  | 20            | 100         | 16000    | FLW810 | 5/8   | 20            | 100         | 1500     |
| FLW805 | 5/16 | 20            | 100         | 9500     | FLW812 | 3/4   | 10            | 50          | 900      |
| FLW806 | 3/8  | 20            | 100         | 6000     | FLW814 | 7/8   | 5             | 25          | 750      |
| FLW807 | 7/16 | 20            | 100         | 3600     | FLW816 | 1     | 5             | 25          | 400      |
| FLW808 | 1/2  | 20            | 100         | 2700     | FLW824 | 1 1/2 | -             | -           | 138      |
| FLW809 | 9/16 | 20            | 100         | 2000     |        |       |               |             |          |



## 18-8 STAINLESS STEEL • IMPORTED

| Part #   | Size | Farm Pack Qty | Package Qty | Bulk Qty | Part #  | Size | Farm Pack Qty | Package Qty | Bulk Qty |
|----------|------|---------------|-------------|----------|---------|------|---------------|-------------|----------|
| FSSLW004 | #4   | 20            | 100         | 50000    | FSSLW05 | 5/16 | 20            | 100         | 12500    |
| FSSLW006 | #6   | 20            | 100         | 50000    | FSSLW06 | 3/8  | 20            | 100         | 8000     |
| FSSLW008 | #8   | 20            | 100         | 10000    | FSSLW07 | 7/16 | 20            | 100         | 5500     |
| FSSLW010 | #10  | 20            | 100         | 10000    | FSSLW08 | 1/2  | 20            | 100         | 3750     |
| FSSLW012 | #12  | 20            | 100         | 45000    | FSSLW10 | 5/8  | 10            | 50          | 2000     |
| FSSLW04  | 1/4  | 20            | 100         | 15000    | FSSLW12 | 3/4  | 10            | 50          | 1250     |





# HI COLLAR SPLIT LOCK WASHERS, EXTERNAL TOOTH LOCK WASHERS

## HI COLLAR SPLIT LOCK WASHERS

THRU HARDENED • PLAIN FINISH

| Part #   | Size | Farm Pack Qty | Package Qty | Bulk Qty |
|----------|------|---------------|-------------|----------|
| FLWHC008 | #8   | 20            | 100         | 10000    |
| FLWHC010 | #10  | 20            | 100         | 75000    |
| FLWHC04  | 1/4  | 20            | 100         | 27500    |
| FLWHC06  | 3/8  | 20            | 100         | 10000    |
| FLWHC08  | 1/2  | 10            | 50          | 4500     |



## EXTERNAL TOOTH LOCK WASHERS

### TECHNICAL INFORMATION

#### DIMENSIONS

| Washer Size | ID    | OD    | Thickness |       | Washer Size | ID    | OD    | Thickness |       |
|-------------|-------|-------|-----------|-------|-------------|-------|-------|-----------|-------|
|             | Basic |       | Max       | Min   |             | Basic |       | Max       | Min   |
| #6          | 0.155 | 0.305 | 0.022     | 0.016 | 3/8         | 0.405 | 0.703 | 0.04      | 0.032 |
| #8          | 0.18  | 0.348 | 0.023     | 0.018 | 7/16        | 0.472 | 0.814 | 0.04      | 0.032 |
| #10         | 0.209 | 0.389 | 0.024     | 0.018 | 1/2         | 0.539 | 0.917 | 0.045     | 0.037 |
| #12         | 0.236 | 0.418 | 0.027     | 0.020 | 9/16        | 0.606 | 0.999 | 0.045     | 0.037 |
| 1/4         | 0.273 | 0.487 | 0.028     | 0.023 | 5/8         | 0.675 | 1.084 | 0.05      | 0.042 |
| 5/16        | 0.338 | 0.618 | 0.034     | 0.028 | 3/4         | 0.808 | 1.258 | 0.055     | 0.047 |

#### ZINC PLATED • IMPORTED

External Tooth Lock Washers provide the best lock of all tooth lock washers.

| Part #   | Size | Farm Pack Qty | Package Qty | Bulk Qty |
|----------|------|---------------|-------------|----------|
| FLWEX006 | #6   | 20            | 100         | 50000    |
| FLWEX008 | #8   | 20            | 100         | 50000    |
| FLWEX010 | #10  | 20            | 100         | 50000    |
| FLWEX012 | #12  | 20            | 100         | 10000    |
| FLWEX04  | 1/4  | 20            | 100         | 50000    |
| FLWEX05  | 5/16 | 20            | 100         | 25000    |
| FLWEX06  | 3/8  | 20            | 100         | 20000    |
| FLWEX08  | 1/2  | 20            | 100         | 10000    |
| FLWEX10  | 5/8  | 10            | 50          | 5000     |
| FLWEX12  | 3/4  | 10            | 50          | 5000     |



## 400 SERIES ▪ STAINLESS STEEL ▪ IMPORTED

| Part #     | Size | Farm Pack Qty | Package Qty | Bulk Qty |
|------------|------|---------------|-------------|----------|
| FSSLWEX010 | #10  | 40            | 200         | 50000    |
| FSSLWEX04  | 1/4  | 20            | 100         | 50000    |
| FSSLWEX05  | 5/16 | 20            | 100         | 25000    |



## INTERNAL TOOTH LOCK WASHERS

## ZINC PLATED ▪ IMPORTED

Internal Tooth Lock Washers are used where a finished appearance is desired or when a smaller headed fastener is used

| Part #   | Size | Farm Pack Qty | Package Qty | Bulk Qty |
|----------|------|---------------|-------------|----------|
| FLWIN006 | #6   | 20            | 100         | 50000    |
| FLWIN008 | #8   | 20            | 100         | 50000    |
| FLWIN010 | #10  | 20            | 100         | 50000    |
| FLWIN012 | #12  | 20            | 100         | -        |
| FLWIN04  | 1/4  | 20            | 100         | 50000    |
| FLWIN05  | 5/16 | 20            | 100         | 25000    |
| FLWIN06  | 3/8  | 20            | 100         | 20000    |



## STAINLESS STEEL ▪ IMPORTED

| Part #     | Size | Farm Pack Qty | Package Qty | Bulk Qty |
|------------|------|---------------|-------------|----------|
| FSSLWIN010 | #10  | 100           | 500         | 50000    |



## STRUCTURAL WASHERS

### STRUCTURAL WASHERS

### TECHNICAL INFORMATION

#### DIMENSIONS

| Washer Size | ID     | OD      | Thickness   |
|-------------|--------|---------|-------------|
| 1/2         | 17/32  | 1 1/16  | 0.097/0.177 |
| 5/8         | 11/16  | 1 5/16  | 0.122/0.177 |
| 3/4         | 13/16  | 1 15/32 | 0.122/0.177 |
| 7/8         | 15/16  | 1 3/4   | 0.136/0.177 |
| 1           | 1 1/16 | 2       | 0.136/0.177 |
| 1 1/8       | 1 3/16 | 2 1/4   | 0.136/0.177 |
| 1 1/4       | 1 3/8  | 2 1/2   | 0.136/0.177 |

#### F436 • PLAIN FINISH • MADE IN USA OR IMPORTED

Structural Washers are manufactured to ASTM F436 specs and are designed especially for use with A325 and A490 structural bolts.

| Part #    | Size | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-----------|------|---------------|---------------|----------|
| FFWA32508 | 1/2  | 20            | 100           | 2100     |
| FFWA32510 | 5/8  | 10            | 50            | 1100     |
| FFWA32512 | 3/4  | 10            | 50            | 920      |
| FFWA32514 | 7/8  | 5             | 25            | 700      |
| FFWA32516 | 1    | 5             | 25            | 450      |



#### F436 • HOT DIP GALVANIZED • MADE IN USA OR IMPORTED

| Part #     | Size | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|------------|------|---------------|---------------|----------|
| FFWA325G08 | 1/2  | 20            | 100           | 1700     |
| FFWA325G10 | 5/8  | 10            | 50            | 900      |
| FFWA325G12 | 3/4  | 10            | 50            | 850      |
| FFWA325G16 | 1    | 5             | 25            | 350      |



## BEVELED WASHERS

## TECHNICAL INFORMATION

## DIMENSIONS

| Washer Size | ID     | OD      | Thickness   |
|-------------|--------|---------|-------------|
| 1/2         | 17/32  | 1 1/16  | 0.097/0.177 |
| 5/8         | 1 1/16 | 1 5/16  | 0.122/0.177 |
| 3/4         | 1 3/16 | 1 15/32 | 0.122/0.177 |
| 7/8         | 1 5/16 | 1 3/4   | 0.136/0.177 |
| 1           | 1 1/16 | 2       | 0.136/0.177 |
| 1 1/8       | 1 3/16 | 2 1/4   | 0.136/0.177 |
| 1 1/4       | 1 3/8  | 2 1/2   | 0.136/0.177 |

## PLAIN FINISH • IMPORTED

Beveled Washers are used to fasten bolts to the Flanges of I-beams.

| Part # | Size | Package Qty | Bulk Qty |
|--------|------|-------------|----------|
| FBW08  | 1/2  | 50          | 600      |
| FBW10  | 5/8  | 25          | 300      |
| FBW12  | 3/4  | 25          | 300      |



## FENDER WASHERS

## ZINC PLATED • IMPORTED

Fender Washers are used anywhere where a washer with extra surface area is needed. Size is measured ID X OD. The ID is 1/32" oversized and the thickness is approximately 1/16"



| Part #   | Size         | Package Qty | Bulk Qty | Part #   | Size         | Package Qty | Bulk Qty |
|----------|--------------|-------------|----------|----------|--------------|-------------|----------|
| FFEW0410 | 1/8 x 5/8    | 100         | -        | FFEW0824 | 1/4 x 1 1/2  | 100         | 1600     |
| FFEW0412 | 1/8 x 3/4    | 100         | 5810     | FFEW0832 | 1/4 x 2      | 100         | 880      |
| FFEW0512 | 5/32 x 3/4   | 100         | -        | FFEW1020 | 5/16 x 1 1/4 | 100         | 2400     |
| FFEW0612 | 3/16 x 3/4   | 100         | 6800     | FFEW1024 | 5/16 x 1 1/2 | 100         | 1620     |
| FFEW0616 | 3/16 x 1     | 100         | 3630     | FFEW1032 | 5/16 x 2     | 100         | 890      |
| FFEW0620 | 3/16 x 1 1/4 | 100         | 2200     | FFEW1220 | 3/8 x 1 1/4  | 100         | 2480     |
| FFEW0624 | 3/16 x 1 1/2 | 100         | 1580     | FFEW1224 | 3/8 x 1 1/2  | 100         | 1650     |
| FFEW0814 | 1/4 x 7/8    | 100         | 3700     | FFEW1226 | 3/8 x 1 5/8  | 100         | 1100     |
| FFEW0816 | 1/4 x 1      | 100         | 3700     | FFEW1232 | 3/8 x 2      | 100         | 925      |
| FFEW0820 | 1/4 x 1 1/4  | 100         | 2300     | FFEW1632 | 1/2 x 2      | 100         | 925      |

## FENDER WASHERS, MACHINERY BUSHINGS

### 1/8" THICK • ZINC PLATED • MADE IN USA OR IMPORTED

| Part #    | Size         | Package Qty | Bulk Qty |
|-----------|--------------|-------------|----------|
| FFEW08162 | 1/4 x 1      | 100         | 1700     |
| FFEW08242 | 1/4 x 1 1/2  | 100         | 600      |
| FFEW10202 | 5/16 x 1 1/4 | 100         | 1250     |
| FFEW10242 | 5/16 x 1 1/2 | 100         | 650      |
| FFEW12202 | 3/8 x 1 1/4  | 100         | 1100     |
| FFEW12242 | 3/8 x 1 1/2  | 100         | 650      |
| FFEW16322 | 1/2 x 2      | 50          | 350      |



### 18-8 STAINLESS STEEL • IMPORTED



| Part #      | Size        | Package Qty | Bulk Qty | Part #     | Size         | Package Qty | Bulk Qty |
|-------------|-------------|-------------|----------|------------|--------------|-------------|----------|
| FSSFEW00806 | 8 x 3/4     | 100         | 6000     | FSSFEW0510 | 5/16 x 1 1/4 | 100         | 2500     |
| FSSFEW01006 | 10 x 3/4    | 100         | 6500     | FSSFEW0512 | 5/16 x 1 1/2 | 100         | 1620     |
| FSSFEW01008 | 10 x 1      | 100         | 3630     | FSSFEW0610 | 3/8 x 1 1/4  | 100         | 2480     |
| FSSFEW0408  | 1/4 x 1     | 100         | 3700     | FSSFEW0612 | 3/8 x 1 1/2  | 100         | 1650     |
| FSSFEW0410  | 1/4 x 1 1/4 | 100         | 2000     | FSSFEW0616 | 3/8 x 2      | 100         | -        |
| FSSFEW0412  | 1/4 x 1 1/2 | 100         | 1600     | FSSFEW0816 | 1/2 x 2      | 100         | 925      |

## MACHINERY BUSHINGS

### NARROW RIM • 18 GAUGE • PLAIN FINISH • MADE IN USA OR IMPORTED

Machinery Bushings reduce wear between moving parts, prevent marring of finishes, and can be used as spacers. They are manufactured from low carbon steel. Size is given here as ID X OD.



| Part #  | Size      | Farm Pack Qty | Package Qty | Bulk Qty | Part #  | Size        | Farm Pack Qty | Package Qty | Bulk Qty |
|---------|-----------|---------------|-------------|----------|---------|-------------|---------------|-------------|----------|
| FMBN808 | 1/2 x 7/8 | 5             | 25          | -        | FMBN812 | 3/4 x 1 1/4 | 5             | 25          | -        |
| FMBN809 | 9/16 x 1  | 5             | 25          | -        | FMBN814 | 7/8 x 1 3/8 | 5             | 25          | 4000     |
| FMBN810 | 5/8 x 1   | 5             | 25          | -        | FMBN816 | 1 x 1 1/2   | 5             | 25          | -        |

## NARROW RIM • 18 GAUGE • PLAIN FINISH • MADE IN USA OR IMPORTED

| Part #  | Size          | Farm Pack Qty | Package Qty | Bulk Qty |
|---------|---------------|---------------|-------------|----------|
| FMBN818 | 1 1/8 x 1 3/4 | 5             | 25          | -        |
| FMBN820 | 1 1/4 x 1 7/8 | 5             | 25          | -        |
| FMBN822 | 1 3/8 x 2 1/8 | 5             | 25          | -        |
| FMBN824 | 1 1/2 x 2 1/4 | 5             | 25          | -        |
| FMBN826 | 1 5/8 x 2 3/8 | 5             | 25          | -        |

| Part #  | Size          | Farm Pack Qty | Package Qty | Bulk Qty |
|---------|---------------|---------------|-------------|----------|
| FMBN828 | 1 3/4 x 2 1/2 | 5             | 25          | -        |
| FMBN832 | 2 x 3         | 2             | 10          | -        |
| FMBN834 | 2 1/8 x 3 1/8 | 2             | 10          | -        |
| FMBN836 | 2 1/4 x 3 1/4 | 2             | 10          | -        |

## NARROW RIM • 14 GAUGE • PLAIN FINISH • MADE IN USA OR IMPORTED



| Part #  | Size          | Farm Pack Qty | Package Qty | Bulk Qty |
|---------|---------------|---------------|-------------|----------|
| FMBN408 | 1/2 x 7/8     | 5             | 25          | 2500     |
| FMBN409 | 9/16 x 1      | 5             | 25          | -        |
| FMBN410 | 5/8 x 1       | 5             | 25          | 2500     |
| FMBN412 | 3/4 x 1 1/4   | 5             | 25          | 2500     |
| FMBN414 | 7/8 x 1 3/8   | 5             | 25          | 2500     |
| FMBN416 | 1 x 1 1/2     | 5             | 25          | 2500     |
| FMBN418 | 1 1/8 x 1 3/4 | 5             | 25          | 1000     |
| FMBN420 | 1 1/4 x 1 7/8 | 5             | 25          | 1000     |
| FMBN422 | 1 3/8 x 2 1/8 | 5             | 25          | 1000     |

| Part #  | Size          | Farm Pack Qty | Package Qty | Bulk Qty |
|---------|---------------|---------------|-------------|----------|
| FMBN424 | 1 1/2 x 2 1/4 | 5             | 25          | 1000     |
| FMBN426 | 1 5/8 x 2 3/8 | 5             | 25          | 250      |
| FMBN428 | 1 3/4 x 2 1/2 | 5             | 25          | 500      |
| FMBN430 | 1 7/8 x 2 7/8 | 5             | 25          | 250      |
| FMBN432 | 2 x 3         | 2             | 10          | 250      |
| FMBN434 | 2 1/8 x 3 1/8 | 2             | 10          | -        |
| FMBN436 | 2 1/4 x 3 1/4 | 2             | 10          | -        |
| FMBN438 | 2 3/8 x 3 3/8 | 2             | 10          | -        |
| FMBN440 | 2 1/2 x 3 1/2 | 2             | 10          | -        |

## NARROW RIM • 10 GAUGE • PLAIN FINISH • MADE IN USA OR IMPORTED



| Part #  | Size          | Farm Pack Qty | Package Qty |
|---------|---------------|---------------|-------------|
| FMBN010 | 5/8 x 1       | 5             | 25          |
| FMBN012 | 3/4 x 1 1/4   | 5             | 25          |
| FMBN014 | 7/8 x 1 3/8   | 5             | 25          |
| FMBN016 | 1 x 1 1/2     | 5             | 25          |
| FMBN018 | 1 1/8 x 1 3/4 | 5             | 25          |
| FMBN020 | 1 1/4 x 1 7/8 | 5             | 25          |
| FMBN022 | 1 3/8 x 2 1/8 | 5             | 25          |

| Part #  | Size          | Farm Pack Qty | Package Qty |
|---------|---------------|---------------|-------------|
| FMBN024 | 1 1/2 x 2 1/4 | 5             | 25          |
| FMBN026 | 1 5/8 x 2 3/8 | 5             | 25          |
| FMBN028 | 1 3/4 x 2 1/2 | 5             | 25          |
| FMBN030 | 1 7/8 x 2 7/8 | 5             | 25          |
| FMBN032 | 2 x 3         | 2             | 10          |
| FMBN034 | 2 1/8 x 3 1/8 | 2             | 10          |

## MACHINERY BUSHINGS, ALUMINUM SPACERS

WIDE RIM • 14 GAUGE • PLAIN FINISH • MADE IN USA OR IMPORTED



| Part #  | Size          | Farm Pack Qty | Package Qty | Part #  | Size          | Farm Pack Qty | Package Qty |
|---------|---------------|---------------|-------------|---------|---------------|---------------|-------------|
| FMBW410 | 5/8 x 1 1/4   | 5             | 25          | FMBW424 | 1 1/2 x 3     | 5             | 25          |
| FMBW412 | 3/4 x 1 1/2   | 5             | 25          | FMBW428 | 1 3/4 x 3 1/4 | 5             | 25          |
| FMBW414 | 7/8 x 1 3/4   | 5             | 25          | FMBW432 | 2 x 3 1/2     | 2             | 10          |
| FMBW416 | 1 x 2         | 5             | 25          | FMBW434 | 2 1/8 x 3 5/8 | 2             | 10          |
| FMBW418 | 1 1/8 x 2 1/8 | 5             | 25          | FMBW436 | 2 1/4 x 2 1/4 | 2             | 10          |
| FMBW420 | 1 1/4 x 2 1/4 | 5             | 25          | FMBW444 | 2 3/4 x 4     | 2             | 10          |
| FMBW422 | 1 3/8 x 2 1/2 | 5             | 25          |         |               |               |             |

WIDE RIM • 10 GAUGE • PLAIN FINISH • MADE IN USA OR IMPORTED

| Part #  | Size          | Farm Pack Qty | Package Qty |
|---------|---------------|---------------|-------------|
| FMBW010 | 5/8 x 1 1/4   | 5             | 25          |
| FMBW012 | 3/4 x 1 1/2   | 5             | 25          |
| FMBW016 | 1 x 2         | 5             | 25          |
| FMBW020 | 1 1/4 x 2 1/4 | 5             | 25          |
| FMBW024 | 1 1/2 x 3     | 5             | 25          |
| FMBW028 | 1 3/4 x 3 1/4 | 5             | 25          |
| FMBW032 | 2 x 3 1/2     | 2             | 10          |



## ALUMINUM SPACERS



| Part #    | Size                        | Farm Pack Qty | Package Qty | Bulk Qty |
|-----------|-----------------------------|---------------|-------------|----------|
| FSA061212 | 3/4 OD x 3/8 ID x 3/4 THICK | 20            | 100         | 6000     |

## NYLON FLAT WASHERS

### MADE IN USA

Nylon Flat Washers are strong yet light weight, can be used indoors or outdoors and are an excellent way to protect a finish.



| Part #            | Size                              | Color | Farm Pack Qty | Package Qty | Bulk Qty |
|-------------------|-----------------------------------|-------|---------------|-------------|----------|
| FNFW050002570062  | 0.500 OD x 0.257 ID x 0.062 THICK | White | 20            | 100         | 5000     |
| FNFW050003170062  | 0.500 OD x 0.317 ID x 0.062 THICK | White | 20            | 100         | 5000     |
| FNFW062001870062  | 0.620 OD x 0.187 ID x 0.062 THICK | White | 20            | 100         | 5000     |
| FNFW062502570062  | 0.625 OD x 0.257 ID x 0.062 THICK | White | 20            | 100         | 5000     |
| FNFW062503120062  | 0.625 OD x 0.312 ID x 0.062 THICK | White | 20            | 100         | -        |
| FNFW062503800032  | 0.625 OD x 0.380 ID x 0.032 THICK | White | 20            | 100         | 5000     |
| FNFW062503800093  | 0.625 OD x 0.380 ID x 0.093 THICK | White | 20            | 100         | -        |
| FNFW070903350039  | 0.709 OD x 0.335 ID x 0.039 THICK | White | 20            | 100         | 5000     |
| FNFW075003800062  | 0.750 OD x 0.380 ID x 0.062 THICK | White | 20            | 100         | -        |
| FNFW075004430032  | 0.750 OD x 0.443 ID x 0.032 THICK | White | 20            | 100         | 5000     |
| FNFW075004430062  | 0.750 OD x 0.443 ID x 0.062 THICK | White | 20            | 100         | 5000     |
| FNFW075503920123  | 0.755 OD x 0.392 ID x 0.123 THICK | White | 20            | 100         | 5000     |
| FNFW087503150062  | 0.875 OD x 0.315 ID x 0.062 THICK | White | 20            | 100         | 5000     |
| FNFW094403310098  | 0.944 OD x 0.331 ID x 0.098 THICK | White | 20            | 100         | 5000     |
| FNFW098404060125  | 0.984 OD x 0.406 ID x 0.125 THICK | White | 20            | 100         | 5000     |
| FNFW100004110062  | 1.000 OD x 0.411 ID x 0.062 THICK | White | 20            | 100         | 5000     |
| FNFW100005180080  | 1.000 OD x 0.518 ID x 0.080 THICK | White | 20            | 100         | 5000     |
| FNFW100006320076  | 1.000 OD x 0.632 ID x 0.076 THICK | White | 20            | 100         | 5000     |
| FNFW125005000062  | 1.250 OD x 0.500 ID x 0.062 THICK | White | 20            | 100         | 5000     |
| FNFW125005620060  | 1.250 OD x 0.562 ID x 0.060 THICK | White | 20            | 100         | 5000     |
| FNFW125007650080  | 1.250 OD x 0.765 ID x 0.080 THICK | White | 20            | 100         | 5000     |
| FNFW200006300125  | 2.000 OD x 0.630 ID x 0.125 THICK | White | 20            | 100         | 5000     |
| FNFWB050002570062 | 0.500 OD x 0.257 ID x 0.062 THICK | Black | 20            | 100         | 5000     |
| FNFWB062501870042 | 0.625 OD x 0.187 ID x 0.042 THICK | Black | 20            | 100         | -        |
| FNFWB062502570062 | 0.625 OD x 0.257 ID x 0.062 THICK | Black | 20            | 100         | -        |
| FNFWB200703150197 | 2.007 OD x 0.315 ID x 0.197 THICK | Black | 20            | 100         | 2500     |

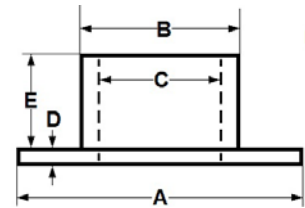


## NYLON SHOULDER WASHERS, NYLON SPACERS

### NYLON SHOULDER WASHERS

#### TECHNICAL INFORMATION

#### DIMENSIONS



| Part Number      | A    | B     | C     | D     | E     |
|------------------|------|-------|-------|-------|-------|
| FNSW075002660188 | 0.75 | 0.35  | 0.266 | 0.062 | 0.188 |
| FNSW075004700174 | 0.75 | 0.625 | 0.47  | 0.066 | 0.174 |
| FNSW125004370375 | 1.25 | 0.65  | 0.437 | 0.125 | 0.375 |

#### NATURAL NYLON • MADE IN USA

Nylon Shoulder Washers are an excellent way to protect a surface. They are light weight and will not corrode.



| Part #            | Size                                 | Farm Pack Qty | Package Qty | Bulk Qty |
|-------------------|--------------------------------------|---------------|-------------|----------|
| FNSWB038507500060 | 0.750 OD x 0.385 ID x 0.060 SHOULDER | 20            | 100         | -        |
| FNSWB056202600060 | 0.562 OD x 0.260 ID x 0.060 SHOULDER | 20            | 100         | -        |
| FNSW125004370375  | 1.250 OD x 0.437 ID x 0.375 SHOULDER | 20            | 100         | 10000    |

### NYLON SPACERS

#### MADE IN USA

Nylon Spacers are lightweight and strong. They will not corrode and can be used outdoors and indoors.



| Part #            | Size                              | Color | Farm Pack Qty | Package Qty | Bulk Qty |
|-------------------|-----------------------------------|-------|---------------|-------------|----------|
| FNSP050002570125  | 0.500 OD x 0.257 ID x 0.125 THICK | White | 20            | 100         | 5000     |
| FNSP056203880304  | 0.562 OD x 0.388 ID x 0.304 THICK | White | 20            | 100         | -        |
| FNSP075002660187  | 0.750 OD x 0.266 ID x 0.187 THICK | White | 20            | 100         | 5000     |
| FNSP100005050250  | 1.000 OD x 0.505 ID x 0.250 THICK | White | 20            | 100         | 2500     |
| FNSPB075003120390 | 0.750 OD x 0.312 ID x 0.390 THICK | Black | 20            | 100         | 5000     |
| FNSPB100003750250 | 1.000 OD x 0.375 ID x 0.250 THICK | Black | 20            | 100         | 5000     |
| FNSPB100003750500 | 1.000 OD x 0.375 ID x 0.500 THICK | Black | 20            | 100         | 5000     |
| FNSPB100005050250 | 1.000 OD x 0.505 ID x 0.250 THICK | Black | 20            | 100         | 5000     |
| FNSPB100005050500 | 1.000 OD x 0.505 ID x 0.500 THICK | Black | 20            | 100         | 5000     |

# RUBBER FLAT WASHERS, RIVET WASHER, COUNTERSUNK FINISHING WASHERS

## RUBBER FLAT WASHERS



| Part #            | Size                               | Package Qty | Package Qty | Bulk Qty |
|-------------------|------------------------------------|-------------|-------------|----------|
| FRFW1062505000125 | 1.0625 OD x 0.257 ID x 0.125 THICK | 20          | 100         | 2000     |
| FRFW2500031250125 | 2.500 OD x 0.257 ID x 0.125 THICK  | 20          | 100         | -        |

## RIVET WASHER

### ZINC PLATED ▪ MADE IN USA OR IMPORTED

Rivet Washers are used to compensate for soft materials or oversized holes when using blind rivets. Size is ID X OD

| Part # | Size         | Material | Package Qty | Bulk Qty |
|--------|--------------|----------|-------------|----------|
| FRW02  | 1/8 x 3/8    | Steel    | 100         | 10000    |
| FRW03  | 3/16 x 15/32 | Steel    | 100         | 10000    |
| FRWA03 | 3/16 x 1/2*  | Aluminum | 100         | 10000    |

\*Aluminum



## COUNTERSUNK FINISHING WASHERS

## TECHNICAL INFORMATION

### DIMENSIONS

| Washer Size | ID    | OD    | Height |
|-------------|-------|-------|--------|
| #6          | 0.18  | 0.447 | 0.091  |
| #8          | 0.2   | 0.531 | 0.099  |
| #10         | 0.257 | 0.594 | 0.115  |

### NICKEL PLATED ▪ IMPORTED

Countersunk Finishing Washers are designed to use with oval head or countersunk flat head screws. They give additional bearing surface and a neat finished appearance.

| Part #  | Diameter | Package Qty | Bulk Qty |
|---------|----------|-------------|----------|
| FFIW006 | #6       | 100         | 10000    |
| FFIW008 | #8       | 100         | 10000    |
| FFIW010 | #10      | 100         | 10000    |



# COUNTERSUNK FINISHING WASHERS, NEOPRENE BONDED SEALING WASHERS, QUICK REPAIR WASHERS

## 18-8 STAINLESS STEEL • IMPORTED

| Part #    | Diameter | Package Qty | Bulk Qty |
|-----------|----------|-------------|----------|
| FSSFIW006 | #6       | 100         | 10000    |
| FSSFIW008 | #8       | 100         | 10000    |



## NEOPRENE BONDED SEALING WASHERS

### GALVANIZED • MADE IN USA

Neoprene Bonded Washers provide a weather tight seal. They are commonly used in applications such as grain bins or fastening sheet metal to a building.

| Part #  | Size         | Farm Pack Qty | Package Qty | Bulk Qty |
|---------|--------------|---------------|-------------|----------|
| FWCMS04 | 1/4 x 5/8    | 20            | 100         | 7000     |
| FWCMS05 | 5/16 x 23/32 | 20            | 100         | 6000     |
| FWCMS06 | 3/8 x 23/32  | 20            | 100         | 6000     |



## QUICK REPAIR WASHERS

### ZINC PLATED • IMPORTED

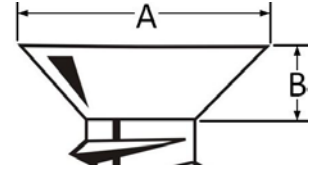
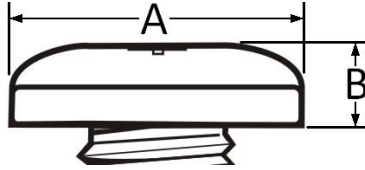
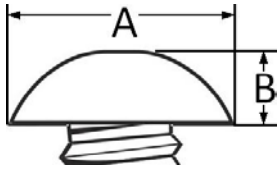
Quick Repair Washers are an economical way to get a washer or spacer into a spot that would require a lot of disassembly otherwise. Size is given as ID X OD and they are 1/8" thick.

| Part # | Size          |
|--------|---------------|
| FQRW12 | 3/4 x 1 3/4   |
| FQRW14 | 7/8 x 1 7/8   |
| FQRW16 | 1 x 2         |
| FQRW18 | 1 1/8 x 2 1/8 |
| FQRW20 | 1 1/4 x 2 1/4 |
| FQRW22 | 1 3/8 x 2 3/8 |
| FQRW24 | 1 1/2 x 2 1/2 |
| FQRW28 | 1 3/4 x 2 3/4 |
| FQRW32 | 2 x 3         |

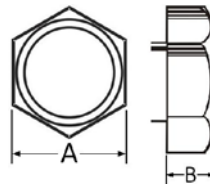
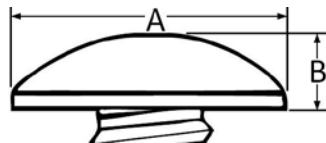


## TECHNICAL INFORMATION

## HEAD DIMENSIONS

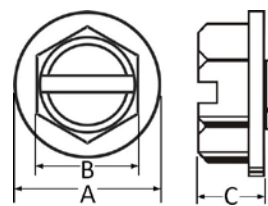
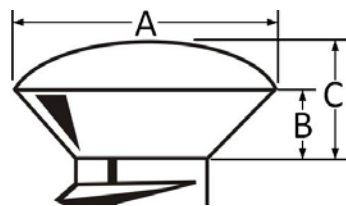


| Size | Round  |       |            |       | Pan    |       |            |       | Flat   |       |            |       |
|------|--------|-------|------------|-------|--------|-------|------------|-------|--------|-------|------------|-------|
|      | A (OD) |       | B (Height) |       | A (OD) |       | B (Height) |       | A (OD) |       | B (Height) |       |
|      | MAX    | MIN   | MAX        | MIN   | MAX    | MIN   | MAX        | MIN   | MAX    | MIN   | MAX        | MIN   |
| #4   | 0.211  | 0.193 | 0.086      | 0.075 | 0.219  | 0.205 | 0.08       | 0.07  | 0.212  | 0.191 | 0.067      | 0.055 |
| #5   | 0.236  | 0.217 | 0.095      | 0.083 | 0.245  | 0.231 | 0.089      | 0.079 | 0.237  | 0.215 | 0.075      | 0.062 |
| #6   | 0.26   | 0.24  | 0.103      | 0.091 | 0.27   | 0.256 | 0.097      | 0.087 | 0.262  | 0.238 | 0.083      | 0.069 |
| #7   | -      | -     | -          | -     | 0.296  | 0.281 | 0.106      | 0.096 | 0.287  | 0.262 | 0.091      | 0.076 |
| #8   | 0.309  | 0.287 | 0.12       | 0.107 | 0.322  | 0.306 | 0.115      | 0.105 | 0.312  | 0.285 | 0.1        | 0.084 |
| #9   | -      | -     | -          | -     | -      | -     | -          | -     | 0.358  | 0.316 | 0.108      | 0.091 |
| #10  | 0.359  | 0.334 | 0.137      | 0.123 | 0.373  | 0.357 | 0.133      | 0.122 | 0.362  | 0.333 | 0.116      | 0.098 |
| #12  | 0.408  | 0.382 | 0.153      | 0.139 | 0.425  | 0.407 | 0.151      | 0.139 | 0.412  | 0.38  | 0.132      | 0.112 |
| #14  | 0.472  | 0.443 | 0.175      | 0.16  | 0.476  | 0.457 | 0.169      | 0.156 | 0.462  | 0.427 | 0.148      | 0.126 |
| 5/16 | 0.59   | 0.557 | 0.216      | 0.198 | 0.615  | 0.594 | 0.218      | 0.203 | 0.597  | 0.556 | 0.191      | 0.165 |
| 3/8  | 0.708  | 0.67  | 0.256      | 0.237 | 0.74   | 0.716 | 0.261      | 0.244 | 0.717  | 0.67  | 0.23       | 0.2   |

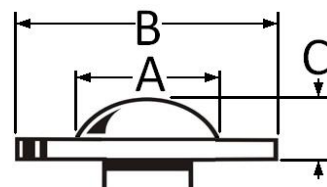
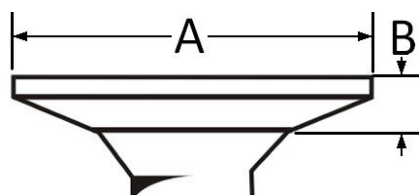


| Size | Truss  |       |            |       | Hex Head           |            |       | Bugle |       |
|------|--------|-------|------------|-------|--------------------|------------|-------|-------|-------|
|      | A (OD) |       | B (Height) |       | A                  | B (Height) |       | OD    |       |
|      | MAX    | MIN   | MAX        | MIN   | WIDTH ACROSS FLATS | MAX        | MIN   | MAX   | MIN   |
| #4   | 0.257  | 0.241 | 0.069      | 0.059 | 3/16               | 0.06       | 0.049 | -     | -     |
| #6   | 0.321  | 0.303 | 0.086      | 0.074 | 1/4                | 0.093      | 0.08  | 0.347 | 0.315 |
| #8   | 0.384  | 0.364 | 0.102      | 0.088 | 1/4                | 0.11       | 0.096 | 0.363 | 0.315 |
| #10  | 0.448  | 0.425 | 0.118      | 0.103 | 5/16               | 0.12       | 0.105 | 0.363 | 0.334 |
| #12  | 0.511  | 0.487 | 0.134      | 0.118 | 5/16               | 0.155      | 0.139 | 0.415 | 0.39  |
| #14  | 0.573  | 0.546 | 0.15       | 0.133 | 7/16               | 0.23       | 0.208 | 0.472 | 0.45  |
| 5/16 | 0.698  | 0.666 | 0.183      | 0.162 | 1/2                | 0.23       | 0.208 | -     | -     |
| 3/8  | 0.823  | 0.787 | 0.215      | 0.191 | 9/16               | 0.295      | 0.27  | -     | -     |

# SCREWS TECHNICAL INFORMATION



| Size | Oval Head |       |                    |                | Hex Washer Head |       |                  |            |       |
|------|-----------|-------|--------------------|----------------|-----------------|-------|------------------|------------|-------|
|      | A (OD)    |       | B                  | C              | A (Washer OD)   |       | B                | C (Height) |       |
|      | MAX       | MIN   | COUNTERSUNK HEIGHT | OVERALL HEIGHT | MAX             | MIN   | ACROSS THE FLATS | MAX        | MIN   |
| #4   | 0.212     | 0.191 | 0.067              | 0.104          | 0.243           | 0.225 | 3/16             | 0.079      | 0.06  |
| #6   | 0.262     | 0.238 | 0.083              | 0.14           | 0.328           | 0.302 | 1/4              | 0.118      | 0.095 |
| #8   | 0.312     | 0.285 | 0.1                | 0.152          | 0.348           | 0.322 | 1/4              | 0.141      | 0.115 |
| #10  | 0.362     | 0.333 | 0.116              | 0.176          | 0.414           | 0.384 | 5/16             | 0.151      | 0.124 |
| #12  | 0.412     | 0.38  | 0.132              | 0.2            | 0.432           | 0.398 | 5/16             | 0.194      | 0.161 |
| #14  | 0.462     | 0.427 | 0.148              | 0.224          | 0.52            | 0.48  | 3/8              | 0.24       | 0.202 |
| 5/16 | 0.597     | 0.556 | 0.191              | 0.29           | 0.59            | 0.551 | 7/16             | 0.293      | 0.245 |
| 3/8  | 0.717     | 0.67  | 0.23               | 0.347          | 0.78            | 0.72  | 9/16             | 0.358      | 0.307 |



| Size | Wafer Head |       |                 |       | Round Washer Head |           |           |       |
|------|------------|-------|-----------------|-------|-------------------|-----------|-----------|-------|
|      | OD         |       | Wafer Thickness |       | Crown Diameter    | Washer OD | Thickness |       |
|      | MAX        | MIN   | MAX             | MIN   | BASIC             |           | MAX       | MIN   |
| #8   | 0.38       | 0.359 | 0.035           | 0.025 | 0.259             | 3/8       | 0.113     | 0.101 |
| #10  | 0.516      | 0.441 | 0.04            | 0.031 | 0.3               | 7/16      | 0.13      | 0.118 |
| #12  | 0.552      | 0.511 | 0.268           | 0.254 | -                 | -         | -         | -     |
| #14  | 0.62       | 0.58  | 0.282           | 0.267 | 0.396             | 9/16      | 0.17      | 0.157 |

## CONCRETE SCREW DIMENSIONS

| Size | Hex Washer Head        |             |           |                        | Phillips Flat Head |             |                        |
|------|------------------------|-------------|-----------|------------------------|--------------------|-------------|------------------------|
|      | Width Across the Flats | Head Height | Washer OD | Fixture Clearance Hole | Head Diameter      | Head Height | Fixture Clearance Hole |
| 3/16 | 1/4                    | 9/64        | 11/32     | 1/4                    | 3/8                | 9/64        | 1/4                    |
| 1/4  | 5/16                   | 11/64       | 13/32     | 5/16                   | 1/2                | 3/16        | 5/16                   |

## DRILL POINT DIMENSIONS

| Size | Drill Point Length |       |           |
|------|--------------------|-------|-----------|
|      | #2                 | #3    | #4 Winged |
| 6    | 0.19               | 0.22  | -         |
| 8    | 0.211              | 0.251 | -         |
| 10   | 0.235              | 0.3   | -         |
| 12   | 0.283              | 0.353 | 0.571     |
| 1/4  | 0.318              | 0.393 | -         |
| 5/16 | -                  | 0.391 | -         |
| 3/8  | -                  | 0.334 | -         |

## TYPE A AND AB INFORMATION

| Size | Type A | Type B |
|------|--------|--------|
| 4    | -      | 24     |
| 5    | -      | 20     |
| 6    | 18     | 20     |
| 7    | 16     | 19     |
| 8    | 15     | 18     |
| 10   | 12     | 16     |
| 12   | 11     | 14     |
| 14   | 10     | 14     |
| 5/16 | 9      | 12     |

## SCREW DIAMETER TABLE

| Screw Size | Decimal Size | Fractional Size |
|------------|--------------|-----------------|
| #24        | 0.372        | 3/8             |
| #20        | 0.32         | 5/16            |
| #14        | 0.242        | 1/4             |
| #12        | 0.216        | 7/32            |
| #10        | 0.19         | 3/16            |
| #9         | 0.177        | 11/64           |
| #8         | 0.164        | 5/32            |
| #7         | 0.151        | 5/32            |
| #6         | 0.138        | 9/64            |
| #5         | 0.125        | 1/8             |
| #4         | 0.112        | 7/64            |
| #3         | 0.099        | 7/64            |
| #2         | 0.086        | 3/32            |
| #1         | 0.073        | 5/64            |
| #0         | 0.06         | 1/16            |

## DRILL SIZE FOR TYPE F SELF THREADING SCREWS

| Screw Size | Drill Size |
|------------|------------|
| 6-32       | #31        |
| 8-32       | #26        |
| 10-24      | #17        |
| 10-32      | #16        |
| 12-24      | #8         |
| 1/4-20     | #1         |
| 5/16-18    | L          |
| 3/8-16     | T          |
| 1/2-13     | 29/64      |

# SLOTTED FLAT HEAD MACHINE SCREWS, SLOTTED ROUND HEAD MACHINE SCREWS

## SLOTTED FLAT HEAD MACHINE SCREWS

### COARSE THREAD • ZINC PLATED • IMPORTED

Machine Screws are manufactured from low carbon steel and are not hardened. A wide variety of head styles are available .



| Part #   | Size            | Package Qty | Bulk Qty | Part #  | Size           | Package Qty | Bulk Qty |
|----------|-----------------|-------------|----------|---------|----------------|-------------|----------|
| FSSF1016 | #10-24 x 2      | 100         | -        | FSSF614 | 3/8-16 x 1 3/4 | 100         | 750      |
| FSSF406  | 1/4-20 x 3/4    | 100         | 3000     | FSSF616 | 3/8-16 x 2     | 100         | 700      |
| FSSF410  | 1/4-20 x 1 1/4  | 100         | 2000     | FSSF620 | 3/8-16 x 2 1/2 | 50          | 600      |
| FSSF428  | 1/4-20 x 3 1/2  | 100         | 800      | FSSF622 | 3/8-16 x 2 3/4 | 50          | 300      |
| FSSF506  | 5/16-18 x 3/4   | 100         | 1600     | FSSF624 | 3/8-16 x 3     | 50          | 500      |
| FSSF510  | 5/16-18 x 1 1/4 | 100         | 1200     | FSSF632 | 3/8-16 x 4     | 50          | 400      |
| FSSF516  | 5/16-18 x 2     | 100         | -        | FSSF636 | 3/8-16 x 4 1/2 | 50          | 350      |

## SLOTTED ROUND HEAD MACHINE SCREWS

### COARSE THREAD • ZINC PLATED • IMPORTED

| Part #    | Size           | Package Qty | Bulk Qty |
|-----------|----------------|-------------|----------|
| FSSRM0803 | #8-32 x 3/8    | 100         | -        |
| FSSRM1012 | #10-24 x 1 1/2 | 100         | -        |
| FSSRM1016 | #10-24 x 2     | 100         | 2500     |
| FSSRM402  | 1/4-20 x 1/4   | 100         | -        |
| FSSRM403  | 1/4-20 x 3/8   | 100         | -        |
| FSSRM404  | 1/4-20 x 1/2   | 100         | 4000     |
| FSSRM406  | 1/4-20 x 3/4   | 100         | -        |
| FSSRM416  | 1/4-20 x 2     | 100         | -        |
| FSSRM504  | 5/16-18 x 1/2  | 100         | 2000     |
| FSSRM608  | 3/8-16 x 1     | 100         | 1000     |



## SLOTTED TRUSS HEAD MACHINE SCREWS

COARSE THREAD • ZINC PLATED • IMPORTED

| Part #    | Size            | Package Qty | Bulk Qty |
|-----------|-----------------|-------------|----------|
| FSSTM1016 | #10-24 x 2      | 100         | -        |
| FSSTM504  | 5/16-18 x 1/2   | 100         | 1500     |
| FSSTM506  | 5/16-18 x 3/4   | 100         | 1600     |
| FSSTM508  | 5/16-18 x 1     | 100         | 1400     |
| FSSTM512  | 5/16-18 x 1 1/2 | 100         | -        |
| FSSTM606  | 3/8-16 x 3/4    | 50          | 1200     |
| FSSTM608  | 3/8-16 x 1      | 100         | 1000     |
| FSSTM612  | 3/8-16 x 1 1/2  | 50          | -        |



18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #    | Size          | Package Qty | Bulk Qty |
|-----------|---------------|-------------|----------|
| FSSSTM406 | 1/4-20 x 3/4  | 100         | 3000     |
| FSSSTM408 | 1/4-20 x 1    | 100         | 3000     |
| FSSSTM506 | 5/16-18 x 3/4 | 100         | -        |



## PHILLIPS FLAT HEAD MACHINE SCREWS

COARSE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size          | Package Qty | Bulk Qty | Part #   | Size          | Package Qty | Bulk Qty |
|----------|---------------|-------------|----------|----------|---------------|-------------|----------|
| FSPF0404 | #4-40 x 1/2   | 100         | 25000    | FSPF0608 | #6-32 x 1     | 100         | 12000    |
| FSPF0406 | #4-40 x 3/4   | 100         | 6500     | FSPF0803 | #8-32 x 3/8   | 100         | 14000    |
| FSPF0410 | #4-40 x 1 1/4 | 100         | 6000     | FSPF0804 | #8-32 x 1/2   | 100         | 12000    |
| FSPF0602 | #6-32 x 1/4   | 100         | 25000    | FSPF0805 | #8-32 x 5/8   | 100         | 10000    |
| FSPF0603 | #6-32 x 3/8   | 100         | 20000    | FSPF0806 | #8-32 x 3/4   | 100         | 8000     |
| FSPF0604 | #6-32 x 1/2   | 100         | 15000    | FSPF0808 | #8-32 x 1     | 100         | 7000     |
| FSPF0605 | #6-32 x 5/8   | 100         | 15000    | FSPF0810 | #8-32 x 1 1/4 | 100         | 6000     |
| FSPF0606 | #6-32 x 3/4   | 100         | 12000    |          |               |             |          |

\*Fine Thread





# PHILLIPS FLAT HEAD MACHINE SCREWS

## COARSE THREAD • ZINC PLATED • IMPORTED

| Part #    | Size           | Package Qty | Bulk Qty |
|-----------|----------------|-------------|----------|
| FSPF1004  | #10-24 x 1/2   | 100         | 9000     |
| FSPF1005  | #10-24 x 5/8   | 100         | 7500     |
| FSPF1006  | #10-24 x 3/4   | 100         | 7000     |
| FSPF1008  | #10-24 x 1     | 100         | 5000     |
| FSPF1010  | #10-24 x 1 1/4 | 100         | 5000     |
| FSPF1012  | #10-24 x 1 1/2 | 100         | 4000     |
| FSPF1014  | #10-24 x 1 3/4 | 100         | 3000     |
| FSPF1016  | #10-24 x 2     | 100         | 2500     |
| FSPF1020  | #10-24 x 2 1/2 | 100         | 2000     |
| FSPF1024  | #10-24 x 3     | 100         | 1600     |
| FSPF1028  | #10-24 x 3 1/2 | 100         | 1500     |
| FSPF1032  | #10-24 x 4     | 100         | 1200     |
| FSPFF1004 | #10-32 x 1/2*  | 100         | 8000     |
| FSPFF1005 | #10-32 x 5/8*  | 100         | 7500     |
| FSPF404   | 1/4-20 x 1/2   | 100         | 4000     |
| FSPF405   | 1/4-20 x 5/8   | 100         | 3500     |
| FSPF406   | 1/4-20 x 3/4   | 100         | 3000     |

| Part #  | Size            | Package Qty | Bulk Qty |
|---------|-----------------|-------------|----------|
| FSPF408 | 1/4-20 x 1      | 100         | 2500     |
| FSPF410 | 1/4-20 x 1 1/4  | 100         | 2000     |
| FSPF412 | 1/4-20 x 1 1/2  | 100         | 2000     |
| FSPF414 | 1/4-20 x 1 3/4  | 100         | 1800     |
| FSPF416 | 1/4-20 x 2      | 100         | 1600     |
| FSPF418 | 1/4-20 x 2 1/4  | 100         | 1400     |
| FSPF420 | 1/4-20 x 2 1/2  | 100         | 1200     |
| FSPF508 | 5/16-18 x 1     | 100         | 1400     |
| FSPF512 | 5/16-18 x 1 1/2 | 100         | 1400     |
| FSPF516 | 5/16-18 x 2     | 100         | -        |
| FSPF520 | 5/16-18 x 2 1/2 | 100         | 800      |
| FSPF608 | 3/8-16 x 1      | 100         | 1200     |
| FSPF610 | 3/8-16 x 1 1/4  | 100         | 1000     |
| FSPF612 | 3/8-16 x 1 1/2  | 100         | 900      |
| FSPF618 | 3/8-16 x 2 1/4  | 50          | 400      |

\*Fine Thread

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED



| Part #     | Size          | Package Qty | Bulk Qty |
|------------|---------------|-------------|----------|
| FSSSPF0403 | #4-40 x 3/8   | 100         | -        |
| FSSSPF0604 | #6-32 x 1/2   | 100         | 15000    |
| FSSSPF0606 | #6-32 x 3/4   | 100         | -        |
| FSSSPF0803 | #8-32 x 3/8   | 100         | 14000    |
| FSSSPF0804 | #8-32 x 1/2   | 100         | -        |
| FSSSPF0805 | #8-32 x 5/8   | 100         | -        |
| FSSSPF0806 | #8-32 x 3/4   | 100         | 8000     |
| FSSSPF0812 | #8-32 x 1 1/2 | 100         | 4000     |
| FSSSPF0814 | #8-32 x 1 3/4 | 100         | 2000     |
| FSSSPF1004 | #10-24 x 1/2  | 100         | 9000     |
| FSSSPF1005 | #10-24 x 5/8  | 100         | 7500     |
| FSSSPF1008 | #10-24 x 1    | 100         | 5000     |
| FSSSPF1016 | #10-24 x 2    | 100         | 1000     |

| Part #     | Size            | Package Qty | Bulk Qty |
|------------|-----------------|-------------|----------|
| FSSSPF1020 | #10-24 x 2 1/2  | 100         | 2000     |
| FSSSPF403  | 1/4-20 x 3/8    | 100         | -        |
| FSSSPF406  | 1/4-20 x 3/4    | 100         | 3000     |
| FSSSPF408  | 1/4-20 x 1      | 100         | 1000     |
| FSSSPF410  | 1/4-20 x 1 1/4  | 100         | -        |
| FSSSPF412  | 1/4-20 x 1 1/2  | 100         | 2000     |
| FSSSPF416  | 1/4-20 x 2      | 100         | 1600     |
| FSSSPF420  | 1/4-20 x 2 1/2  | 100         | 500      |
| FSSSPF424  | 1/4-20 x 3      | 100         | -        |
| FSSSPF428  | 1/4-20 x 3 1/2  | 100         | 800      |
| FSSSPF510  | 5/16-18 x 1 1/4 | 100         | 1200     |
| FSSSPF512  | 5/16-18 x 1 1/2 | 100         | 1400     |

# PHILLIPS FLAT HEAD MACHINE SCREWS, PHILLIPS ROUND HEAD MACHINE SCREWS, PHILLIPS PAN HEAD MACHINE SCREWS

## 18-8 STAINLESS STEEL • FINE THREAD • IMPORTED

| Part #      | Size           | Package Qty | Bulk Qty |
|-------------|----------------|-------------|----------|
| FSSSPFF1004 | #10-32 x 1/2   | 100         | 8000     |
| FSSSPFF1005 | #10-32 x 5/8   | 100         | -        |
| FSSSPFF1006 | #10-32 x 3/4   | 100         | 6000     |
| FSSSPFF1012 | #10-32 x 1 1/2 | 100         | -        |



## PHILLIPS ROUND HEAD MACHINE SCREWS

### COARSE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size           | Package Qty | Bulk Qty |
|----------|----------------|-------------|----------|
| FSPRM608 | 3/8-16 x 1     | 100         | 600      |
| FSPRM612 | 3/8-16 x 1 1/2 | 100         | 500      |



## PHILLIPS PAN HEAD MACHINE SCREWS

### COARSE THREAD • ZINC PLATED • IMPORTED

| Part #     | Size         | Package Qty | Bulk Qty | Part #     | Size          | Package Qty | Bulk Qty |
|------------|--------------|-------------|----------|------------|---------------|-------------|----------|
| FSPPM0204  | #2-56 x 1/2  | 100         | -        | FSPPM0606  | #6-32 x 3/4   | 100         | 12000    |
| FSPPM04015 | #4-40 x 3/16 | 100         | -        | FSPPM0608  | #6-32 x 1     | 100         | 10000    |
| FSPPM0402  | #4-40 x 1/4  | 100         | 40000    | FSPPM0610  | #6-32 x 1 1/4 | 100         | 9000     |
| FSPPM0403  | #4-40 x 3/8  | 100         | 25000    | FSPPM0612  | #6-32 x 1 1/2 | 100         | 7000     |
| FSPPM0404  | #4-40 x 1/2  | 100         | 25000    | FSPPM0616  | #6-32 x 2     | 100         | 5000     |
| FSPPM0405  | #4-40 x 5/8  | 100         | 20000    | FSPPM0802  | #8-32 x 1/4   | 100         | 15000    |
| FSPPM0406  | #4-40 x 3/4  | 100         | 20000    | FSPPM08025 | #8-32 x 5/16  | 100         | 12000    |
| FSPPM0602  | #6-32 x 1/4  | 100         | 25000    | FSPPM0803  | #8-32 x 3/8   | 100         | 12000    |
| FSPPM0603  | #6-32 x 3/8  | 100         | 20000    | FSPPM0804  | #8-32 x 1/2   | 100         | 10000    |
| FSPPM0604  | #6-32 x 1/2  | 100         | 15000    | FSPPM0805  | #8-32 x 5/8   | 100         | 11000    |
| FSPPM0605  | #6-32 x 5/8  | 100         | 15000    |            |               |             |          |

\*Black Zinc



# PHILLIPS PAN HEAD MACHINE SCREWS

## COARSE THREAD • ZINC PLATED • IMPORTED

| Part #    | Size           | Package Qty | Bulk Qty | Part #      | Size            | Package Qty | Bulk Qty |
|-----------|----------------|-------------|----------|-------------|-----------------|-------------|----------|
| FSPPM0806 | #8-32 x 3/4    | 100         | 8000     | FSPPM1206   | #12-24 x 3/4    | 100         | 4000     |
| FSPPM0808 | #8-32 x 1      | 100         | 7000     | FSPPM1208   | #12-24 x 1      | 100         | 2000     |
| FSPPM0810 | #8-32 x 1 1/4  | 100         | 6000     | FSPPM1210   | #12-24 x 1 1/4  | 100         | 2000     |
| FSPPM0812 | #8-32 x 1 1/2  | 100         | 5000     | FSPPM1216   | #12-24 x 2      | 100         | 1250     |
| FSPPM0814 | #8-32 x 1 3/4  | 100         | 4000     | FSPPM403    | 1/4-20 x 3/8    | 100         | 4000     |
| FSPPM0816 | #8-32 x 2      | 100         | 2000     | FSPPM404    | 1/4-20 x 1/2    | 100         | 3500     |
| FSPPM0820 | #8-32 x 2 1/2  | 100         | 1250     | FSPPM405    | 1/4-20 x 5/8    | 100         | 3500     |
| FSPPM0824 | #8-32 x 3      | 100         | 2500     | FSPPM406    | 1/4-20 x 3/4    | 100         | 3000     |
| FSPPM0832 | #8-32 x 4      | 100         | -        | FSPPM408    | 1/4-20 x 1      | 100         | 2500     |
| FSPPM1002 | #10-24 x 1/4   | 100         | -        | FSPPMB408   | 1/4-20 x 1*     | 100         | 2000     |
| FSPPM1003 | #10-24 x 3/8   | 100         | 9000     | FSPPM410    | 1/4-20 x 1 1/4  | 100         | 2000     |
| FSPPM1004 | #10-24 x 1/2   | 100         | 8000     | FSPPM412    | 1/4-20 x 1 1/2  | 100         | 2000     |
| FSPPM1005 | #10-24 x 5/8   | 100         | 7000     | FSPPM414    | 1/4-20 x 1 3/4  | 100         | 1800     |
| FSPPM1006 | #10-24 x 3/4   | 100         | 6000     | FSPPM416    | 1/4-20 x 2      | 100         | 1600     |
| FSPPM1008 | #10-24 x 1     | 100         | 5500     | FSPPM420    | 1/4-20 x 2 1/2  | 100         | 1200     |
| FSPPM1010 | #10-24 x 1 1/4 | 100         | 4000     | FSPPM424    | 1/4-20 x 3      | 100         | 1000     |
| FSPPM1012 | #10-24 x 1 1/2 | 100         | 4000     | FSPPM432    | 1/4-20 x 4      | 100         | 500      |
| FSPPM1014 | #10-24 x 1 3/4 | 100         | 3000     | FSPPM506    | 5/16-18 x 3/4   | 100         | 1600     |
| FSPPM1016 | #10-24 x 2     | 100         | 2500     | FSPPM508    | 5/16-18 x 1     | 100         | -        |
| FSPPM1020 | #10-24 x 2 1/2 | 100         | 2000     | FSPPM510    | 5/16-18 x 1 1/4 | 100         | 1000     |
| FSPPM1024 | #10-24 x 3     | 100         | -        | FSPPM512    | 5/16-18 x 1 1/2 | 100         | 1000     |
| FSPPM1204 | #12-24 x 1/2   | 100         | 6000     | *Black Zinc |                 |             |          |

## FINE THREAD • ZINC PLATED • IMPORTED



| Part #     | Size         | Package Qty | Bulk Qty | Part #     | Size           | Package Qty | Bulk Qty |
|------------|--------------|-------------|----------|------------|----------------|-------------|----------|
| FSPPMF1002 | #10-32 x 1/4 | 100         | -        | FSPPMF1010 | #10-32 x 1 1/4 | 100         | 4000     |
| FSPPMF1003 | #10-32 x 3/8 | 100         | 8000     | FSPPMF1012 | #10-32 x 1 1/2 | 100         | 3500     |
| FSPPMF1004 | #10-32 x 1/2 | 100         | 7000     | FSPPMF1016 | #10-32 x 2     | 100         | 2500     |
| FSPPMF1005 | #10-32 x 5/8 | 100         | 6000     | FSPPMF1024 | #10-32 x 3     | 100         | -        |
| FSPPMF1006 | #10-32 x 3/4 | 100         | 6000     | FSPPMF1032 | #10-32 x 4     | 100         | 1500     |
| FSPPMF1008 | #10-32 x 1   | 100         | 5000     |            |                |             |          |

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED



| Part #      | Size          | Package Qty | Bulk Qty | Part #      | Size           | Package Qty | Bulk Qty |
|-------------|---------------|-------------|----------|-------------|----------------|-------------|----------|
| FSSSPPM0403 | #4-40 x 3/8   | 100         | -        | FSSSPPM1005 | #10-24 x 5/8   | 100         | 8000     |
| FSSSPPM0404 | #4-40 x 1/2   | 100         | 8500     | FSSSPPM1006 | #10-24 x 3/4   | 100         | 7000     |
| FSSSPPM0406 | #4-40 x 3/4   | 100         | 6500     | FSSSPPM1008 | #10-24 x 1     | 100         | 5500     |
| FSSSPPM0603 | #6-32 x 3/8   | 100         | 10000    | FSSSPPM1010 | #10-24 x 1 1/4 | 100         | 2000     |
| FSSSPPM0604 | #6-32 x 1/2   | 100         | 10000    | FSSSPPM1012 | #10-24 x 1 1/2 | 100         | 3500     |
| FSSSPPM0605 | #6-32 x 5/8   | 100         | 10000    | FSSSPPM1014 | #10-24 x 1 3/4 | 100         | -        |
| FSSSPPM0606 | #6-32 x 3/4   | 100         | 10000    | FSSSPPM1016 | #10-24 x 2     | 100         | 2000     |
| FSSSPPM0608 | #6-32 x 1     | 100         | 10000    | FSSSPPM1020 | #10-24 x 2 1/2 | 100         | 1800     |
| FSSSPPM0612 | #6-32 x 1 1/2 | 100         | 7000     | FSSSPPM1024 | #10-24 x 3     | 100         | 1500     |
| FSSSPPM0616 | #6-32 x 2     | 100         | 4000     | FSSSPPM1028 | #10-24 x 3 1/2 | 100         | 1000     |
| FSSSPPM0802 | #8-32 x 1/4   | 100         | 15000    | FSSSPPM1208 | #12-24 x 1     | 100         | 4000     |
| FSSSPPM0803 | #8-32 x 3/8   | 100         | 10000    | FSSSPPM1212 | #12-24 x 1 1/2 | 100         | -        |
| FSSSPPM0804 | #8-32 x 1/2   | 100         | 10000    | FSSSPPM404  | 1/4-20 x 1/2   | 100         | 5000     |
| FSSSPPM0805 | #8-32 x 5/8   | 100         | 10000    | FSSSPPM405  | 1/4-20 x 5/8   | 100         | 4500     |
| FSSSPPM0806 | #8-32 x 3/4   | 100         | 9500     | FSSSPPM406  | 1/4-20 x 3/4   | 100         | 4000     |
| FSSSPPM0808 | #8-32 x 1     | 100         | 7000     | FSSSPPM408  | 1/4-20 x 1     | 100         | 3200     |
| FSSSPPM0809 | #8-32 x 1 1/8 | 100         | 5000     | FSSSPPM412  | 1/4-20 x 1 1/2 | 100         | 2100     |
| FSSSPPM0810 | #8-32 x 1 1/4 | 100         | 5000     | FSSSPPM416  | 1/4-20 x 2     | 100         | 1500     |
| FSSSPPM0812 | #8-32 x 1 1/2 | 100         | 5000     | FSSSPPM420  | 1/4-20 x 2 1/2 | 100         | 1200     |
| FSSSPPM0816 | #8-32 x 2     | 100         | 4000     | FSSSPPM424  | 1/4-20 x 3     | 100         | 1000     |
| FSSSPPM1003 | #10-24 x 3/8  | 100         | 10000    | FSSSPPM508  | 5/16-18 x 1    | 100         | 1400     |
| FSSSPPM1004 | #10-24 x 1/2  | 100         | 10000    | FSSSPPM624  | 3/8-16 x 3     | 50          | -        |

# PHILLIPS PAN HEAD MACHINE SCREWS, PHILLIPS TRUSS HEAD MACHINE SCREWS

## 18-8 STAINLESS STEEL • FINE THREAD • IMPORTED

| Part #        | Size           | Package Qty | Bulk Qty |
|---------------|----------------|-------------|----------|
| FSSSPPMF1003  | #10-32 x 3/8   | 100         | 4000     |
| FSSSPPMF10035 | #10-32 x 7/16  | 100         | 8000     |
| FSSSPPMF1004  | #10-32 x 1/2   | 100         | 7000     |
| FSSSPPMF1005  | #10-32 x 5/8   | 100         | 6000     |
| FSSSPPMF1006  | #10-32 x 3/4   | 100         | -        |
| FSSSPPMF1008  | #10-32 x 1     | 100         | 5000     |
| FSSSPPMF1012  | #10-32 x 1 1/2 | 100         | -        |
| FSSSPPMF1016  | #10-32 x 2     | 100         | -        |



## PHILLIPS TRUSS HEAD MACHINE SCREWS

### COARSE THREAD • ZINC PLATED • IMPORTED



| Part #    | Size          | Package Qty | Bulk Qty | Part #    | Size           | Package Qty | Bulk Qty |
|-----------|---------------|-------------|----------|-----------|----------------|-------------|----------|
| FSPTM0803 | #8-32 x 3/8   | 100         | -        | FSPTM1006 | #10-24 x 3/4   | 50          | 6000     |
| FSPTM0804 | #8-32 x 1/2   | 100         | 10000    | FSPTM1008 | #10-24 x 1     | 100         | 5000     |
| FSPTM0805 | #8-32 x 5/8   | 100         | 9000     | FSPTM1010 | #10-24 x 1 1/4 | 100         | 2150     |
| FSPTM0806 | #8-32 x 3/4   | 100         | 8000     | FSPTM1012 | #10-24 x 1 1/2 | 100         | 3500     |
| FSPTM0808 | #8-32 x 1     | 100         | -        | FSPTM1204 | #12-24 x 1/2   | 100         | -        |
| FSPTM0814 | #8-32 x 1 3/4 | 100         | -        | FSPTM406  | 1/4-20 x 3/4   | 100         | 3000     |
| FSPTM1003 | #10-24 x 3/8  | 100         | 9000     | FSPTM424  | 1/4-20 x 3     | 50          | -        |
| FSPTM1004 | #10-24 x 1/2  | 100         | 7000     | FSPTM506  | 5/16-18 x 3/4  | 100         | 1600     |
| FSPTM1005 | #10-24 x 5/8  | 100         | 7000     |           |                |             |          |

### FINE THREAD • ZINC PLATED • IMPORTED

| Part #     | Size         | Package Qty | Bulk Qty |
|------------|--------------|-------------|----------|
| FSPTMF1004 | #10-32 x 1/2 | 50          | 7000     |
| FSPTMF1005 | #10-32 x 5/8 | 50          | -        |



# PHILLIPS TRUSS HEAD, SLOT/PHIL COMBO ROUND HEAD, SQUARE DRIVE FLAT HEAD MACHINE SCREWS, SQUARE DRIVE PAN HEAD MACHINE SCREWS

## 18-8 STAINLESS STEEL ▪ COARSE THREAD ▪ IMPORTED

| Part #      | Size         | Package Qty | Bulk Qty |
|-------------|--------------|-------------|----------|
| FSSSPTM0802 | #8-32 x 1/4  | 100         | -        |
| FSSSPTM0804 | #8-32 x 1/2  | 100         | -        |
| FSSSPTM1004 | #10-24 x 1/2 | 100         | 7000     |
| FSSSPTM1005 | #10-24 x 5/8 | 100         | 7000     |
| FSSSPTM404  | 1/4-20 x 1/2 | 100         | 4000     |
| FSSSPTM406  | 1/4-20 x 3/4 | 100         | 3000     |
| FSSSPTM408  | 1/4-20 x 1   | 100         | 2500     |



## SLOT/PHIL COMBO ROUND HEAD MACHINE SCREWS

### COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

| Part #    | Size         | Package Qty | Bulk Qty |
|-----------|--------------|-------------|----------|
| FSCRM1008 | #10-24 x 1   | 100         | 5000     |
| FSCRM404  | 1/4-20 x 1/2 | 100         | 4000     |
| FSCRM406  | 1/4-20 x 3/4 | 100         | 3000     |
| FSCRM408  | 1/4-20 x 1   | 100         | 2500     |
| FSCRM416  | 1/4-20 x 2   | 100         | -        |



## SQUARE DRIVE FLAT HEAD MACHINE SCREWS

### 18-8 STAINLESS STEEL ▪ COARSE THREAD ▪ IMPORTED

| Part #     | Size       | Package Qty |
|------------|------------|-------------|
| FSSSFM0606 | 6-32 x 3/4 | 100         |



## SQUARE DRIVE PAN HEAD MACHINE SCREWS

### 18-8 STAINLESS STEEL ▪ COARSE THREAD ▪ IMPORTED

| Part #      | Size          | Package Qty |
|-------------|---------------|-------------|
| FSSSSPM0604 | 6-32 x 1/2    | 100         |
| FSSSSPM0606 | 6-32 x 3/4    | 100         |
| FSSSSPM0806 | 8-32 x 3/4    | 100         |
| FSSSSPM0812 | 8-32 x 1 1/2  | 100         |
| FSSSSPM1006 | 10-24 x 3/4   | 100         |
| FSSSSPM1010 | 10-24 x 1 1/4 | 100         |
| FSSSSPM1016 | 10-24 x 2     | 100         |



TORX PAN HEAD MACHINE SCREWS, TORX TRUSS HEAD MACHINE SCREWS, INDENTED HEX HEAD MACHINE SCREWS (NO WASHER)

TORX PAN HEAD MACHINE SCREWS

18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #     | Size            | Package Qty |
|------------|-----------------|-------------|
| FSSSTPM510 | 5/16-18 x 1 1/4 | 100         |



TORX TRUSS HEAD MACHINE SCREWS

18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #      | Size        | Package Qty | Bulk Qty |
|-------------|-------------|-------------|----------|
| FSSSTTM0803 | #8-32 x 3/8 | 100         | 10000    |



INDENTED HEX HEAD MACHINE SCREWS (NO WASHER)

COARSE THREAD • ZINC PLATED • IMPORTED



| Part #   | Size          | Package Qty | Bulk Qty |
|----------|---------------|-------------|----------|
| FSHM0604 | #6-32 X 1/2   | 100         | 25000    |
| FSHM0805 | #8-32 X 5/8   | 100         | 12000    |
| FSHM0806 | #8-32 X 3/4   | 100         | 11000    |
| FSHM0808 | #8-32 X 1     | 100         | 8000     |
| FSHM0812 | #8-32 X 1 1/2 | 100         | -        |
| FSHM0814 | #8-32 X 1 3/4 | 100         | -        |
| FSHM1004 | #10-24 X 1/2  | 100         | 8000     |

| Part #   | Size           | Package Qty | Bulk Qty |
|----------|----------------|-------------|----------|
| FSHM1005 | #10-24 X 5/8   | 100         | -        |
| FSHM1006 | #10-24 X 3/4   | 100         | 6000     |
| FSHM1008 | #10-24 X 1     | 100         | 5000     |
| FSHM1010 | #10-24 X 1 1/4 | 100         | 4000     |
| FSHM1012 | #10-24 X 1 1/2 | 100         | 3500     |
| FSHM1204 | #12-24 X 1/2   | 100         | 9000     |
| FSHM1205 | #12-24 X 5/8   | 100         | -        |

# INDENTED HEX HEAD MACHINE SCREWS (NO WASHER), INDENTED HEX WASHER HEAD MACHINE SCREWS

## FINE THREAD • ZINC PLATED • IMPORTED

| Part #    | Size         | Package Qty | Bulk Qty |
|-----------|--------------|-------------|----------|
| FSHMF1006 | #10-32 X 3/4 | 100         | -        |
| FSHMF1008 | #10-32 X 1   | 100         | 2500     |



## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #     | Size       | Package Qty | Bulk Qty |
|------------|------------|-------------|----------|
| FSSSHM1008 | #10-24 X 1 | 100         | 5000     |



## INDENTED HEX WASHER HEAD MACHINE SCREWS

### COARSE THREAD • ZINC PLATED • IMPORTED

| Part #    | Size          | Package Qty | Bulk Qty |
|-----------|---------------|-------------|----------|
| FSHWM0803 | #8-32 X 3/8   | 100         | -        |
| FSHWM0812 | #8-32 X 1 1/2 | 100         | -        |
| FSHWM608  | 3/8-16 X 1    | 100         | 500      |



### 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #      | Size           | Package Qty | Bulk Qty |
|-------------|----------------|-------------|----------|
| FSSSHWM1012 | #10-24 X 1 1/2 | 100         | 1500     |





# PHILLIPS FLAT HEAD SHEET METAL SCREWS

## PHILLIPS FLAT HEAD SHEET METAL SCREWS

### TYPE A OR AB • ZINC PLATED • IMPORTED

Sheet Metal Screws are designed especially for fastening sheet metal to a variety of materials. They are hardened and are designed for self starting in metal 0.050" or less.



| Part #     | Size       | Package Qty | Bulk Qty | Part #     | Size        | Package Qty | Bulk Qty |
|------------|------------|-------------|----------|------------|-------------|-------------|----------|
| FSPFSM0403 | #4 x 3/8   | 100         | -        | FSPFSM0814 | #8 x 1 3/4  | 100         | 2700     |
| FSPFSM0404 | #4 x 1/2   | 100         | 9000     | FSPFSM0816 | #8 x 2      | 100         | 2400     |
| FSPFSM0406 | #4 x 3/4   | 100         | 6500     | FSPFSM0820 | #8 x 2 1/2  | 100         | -        |
| FSPFSM0408 | #4 x 1     | 100         | 20000    | FSPFSM0824 | #8 x 3      | 100         | -        |
| FSPFSM0412 | #4 x 1 1/2 | 100         | -        | FSPFSM1004 | #10 x 1/2   | 100         | 8700     |
| FSPFSM0604 | #6 x 1/2   | 100         | 25000    | FSPFSM1006 | #10 x 3/4   | 100         | 6000     |
| FSPFSM0606 | #6 x 3/4   | 100         | 12000    | FSPFSM1008 | #10 x 1     | 100         | -        |
| FSPFSM0608 | #6 x 1     | 100         | 13000    | FSPFSM1010 | #10 x 1 1/4 | 100         | 3300     |
| FSPFSM0610 | #6 x 1 1/4 | 100         | 9500     | FSPFSM1012 | #10 x 1 1/2 | 100         | 2700     |
| FSPFSM0612 | #6 x 1 1/2 | 100         | 5000     | FSPFSM1016 | #10 x 2     | 100         | -        |
| FSPFSM0616 | #6 x 2     | 100         | -        | FSPFSM1020 | #10 x 2 1/2 | 100         | -        |
| FSPFSM0804 | #8 x 1/2   | 100         | 12000    | FSPFSM1204 | #12 x 1/2   | 100         | 6700     |
| FSPFSM0805 | #8 x 5/8   | 100         | -        | FSPFSM1208 | #12 x 1     | 100         | 3700     |
| FSPFSM0806 | #8 x 3/4   | 100         | 8000     | FSPFSM1212 | #12 x 1 1/2 | 100         | 3400     |
| FSPFSM0807 | #8 x 7/8   | 100         | 6700     | FSPFSM1216 | #12 x 2     | 100         | 2500     |
| FSPFSM0808 | #8 x 1     | 100         | 6000     | FSPFSM1408 | 1/4 x 1     | 100         | -        |
| FSPFSM0810 | #8 x 1 1/4 | 100         | 4300     | FSPFSM1410 | 1/4 x 1 1/4 | -           | 2000     |
| FSPFSM0812 | #8 x 1 1/2 | 100         | 5000     | FSPFSM1416 | 1/4 x 2     | 100         | 1700     |

### 18-8 STAINLESS STEEL • TYPE A • IMPORTED



| Part #       | Size     | Package Qty | Bulk Qty | Part #       | Size     | Package Qty | Bulk Qty |
|--------------|----------|-------------|----------|--------------|----------|-------------|----------|
| FSSSPFSM0404 | #4 x 1/2 | 100         | 9000     | FSSSPFSM0604 | #6 x 1/2 | 100         | 10000    |
| FSSSPFSM0406 | #4 x 3/4 | 100         | 6500     | FSSSPFSM0605 | #6 x 5/8 | 100         | 10000    |
| FSSSPFSM0408 | #4 x 1   | 100         | 6000     | FSSSPFSM0606 | #6 x 3/4 | 100         | 10000    |
| FSSSPFSM0506 | #5 x 3/4 | 100         | 10000    | FSSSPFSM0608 | #6 x 1   | 100         | 10000    |

# PHILLIPS FLAT HEAD SHEET METAL SCREWS, PHILLIPS PAN HEAD SHEET METAL SCREWS

## 18-8 STAINLESS STEEL • TYPE A • IMPORTED

| Part #       | Size       | Package Qty | Bulk Qty | Part #       | Size        | Package Qty | Bulk Qty |
|--------------|------------|-------------|----------|--------------|-------------|-------------|----------|
| FSSSPFSM0610 | #6 x 1 1/4 | 100         | 9500     | FSSSPFSM0816 | #8 x 2      | 100         | 3600     |
| FSSSPFSM0804 | #8 x 1/2   | 100         | 10000    | FSSSPFSM1006 | #10 x 3/4   | 100         | 8000     |
| FSSSPFSM0806 | #8 x 3/4   | 100         | 10000    | FSSSPFSM1008 | #10 x 1     | 100         | 6500     |
| FSSSPFSM0807 | #8 x 7/8   | 100         | 9000     | FSSSPFSM1010 | #10 x 1 1/4 | 100         | 5000     |
| FSSSPFSM0808 | #8 x 1     | 100         | 9000     | FSSSPFSM1012 | #10 x 1 1/2 | 100         | 4000     |
| FSSSPFSM0810 | #8 x 1 1/4 | 100         | 6500     | FSSSPFSM1016 | #10 x 2     | 100         | 2800     |
| FSSSPFSM0812 | #8 x 1 1/2 | 100         | 5000     | FSSSPFSM1412 | 1/4 x 1 1/2 | 100         | 1700     |
| FSSSPFSM0814 | #8 x 1 3/4 | 100         | 4000     | FSSSPFSM1416 | 1/4 x 2     | 100         | 1700     |

## PHILLIPS PAN HEAD SHEET METAL SCREWS

### TYPE A OR AB • ZINC PLATED • IMPORTED



| Part #     | Size       | Package Qty | Bulk Qty | Part #     | Size        | Package Qty | Bulk Qty |
|------------|------------|-------------|----------|------------|-------------|-------------|----------|
| FSPPSM0204 | #2 x 1/2   | -           | 10000    | FSPPSM0810 | #8 x 1 1/4  | 100         | 3700     |
| FSPPSM0402 | #4 x 1/4   | 100         | 33300    | FSPPSM0812 | #8 x 1 1/2  | 100         | -        |
| FSPPSM0403 | #4 x 3/8   | 100         | 20000    | FSPPSM0816 | #8 x 2      | 100         | 3200     |
| FSPPSM0404 | #4 x 1/2   | 100         | 22700    | FSPPSM0824 | #8 x 3      | 100         | 1200     |
| FSPPSM0406 | #4 x 3/4   | 100         | 20000    | FSPPSM1004 | #10 x 1/2   | 100         | 6700     |
| FSPPSM0408 | #4 x 1     | 100         | 10000    | FSPPSM1005 | #10 x 5/8   | 100         | -        |
| FSPPSM0602 | #6 x 1/4   | 100         | -        | FSPPSM1008 | #10 x 1     | 100         | 5500     |
| FSPPSM0603 | #6 x 3/8   | 100         | 20000    | FSPPSM1010 | #10 x 1 1/4 | 100         | -        |
| FSPPSM0604 | #6 x 1/2   | 100         | 20000    | FSPPSM1012 | #10 x 1 1/2 | 100         | 2300     |
| FSPPSM0605 | #6 x 5/8   | 100         | 11300    | FSPPSM1016 | #10 x 2     | 100         | -        |
| FSPPSM0606 | #6 x 3/4   | 100         | 9300     | FSPPSM1205 | #12 x 5/8   | 100         | 4000     |
| FSPPSM0608 | #6 x 1     | 100         | 6700     | FSPPSM1207 | #12 x 7/8   | 100         | 3200     |
| FSPPSM0610 | #6 x 1 1/4 | 100         | 5300     | FSPPSM1208 | #12 x 1     | 100         | 4300     |
| FSPPSM0612 | #6 x 1 1/2 | 100         | 6000     | FSPPSM1210 | #12 x 1 1/4 | 100         | 3500     |
| FSPPSM0620 | #6 x 2 1/2 | 100         | -        | FSPPSM1212 | #12 x 1 1/2 | 100         | 2000     |
| FSPPSM0704 | #7 x 1/2   | 100         | 10700    | FSPPSM1404 | 1/4 x 1/2   | 100         | -        |
| FSPPSM0802 | #8 x 1/4   | 100         | 14700    | FSPPSM1406 | 1/4 x 3/4   | 100         | 2700     |
| FSPPSM0803 | #8 x 3/8   | 100         | 11300    | FSPPSM1408 | 1/4 x 1     | 100         | 2100     |
| FSPPSM0804 | #8 x 1/2   | 100         | 9300     | FSPPSM1410 | 1/4 x 1 1/4 | 100         | 2500     |
| FSPPSM0805 | #8 x 5/8   | 100         | 7300     | FSPPSM1412 | 1/4 x 1 1/2 | 100         | 1300     |
| FSPPSM0808 | #8 x 1     | 100         | 4700     | FSPPSM1416 | 1/4 x 2     | 100         | 1000     |

# PHILLIPS PAN HEAD SHEET METAL SCREWS

## BLACK OXIDE • IMPORTED

| Part #  | Size     | Package Qty |
|---------|----------|-------------|
| AV11917 | #6 x 1/2 | 100         |
| AV11918 | #6 x 3/4 | 100         |



## 18-8 STAINLESS STEEL • TYPE A • IMPORTED



| Part #       | Size       | Package Qty | Bulk Qty |
|--------------|------------|-------------|----------|
| FSSSPPSM0403 | #4 x 3/8   | 100         | -        |
| FSSSPPSM0404 | #4 x 1/2   | 100         | -        |
| FSSSPPSM0405 | #4 x 5/8   | 100         | 10000    |
| FSSSPPSM0406 | #4 x 3/4   | 100         | -        |
| FSSSPPSM0604 | #6 x 1/2   | 100         | 10000    |
| FSSSPPSM0605 | #6 x 5/8   | 100         | 5000     |
| FSSSPPSM0606 | #6 x 3/4   | 100         | 10000    |
| FSSSPPSM0608 | #6 x 1     | 100         | 10000    |
| FSSSPPSM0610 | #6 x 1 1/4 | 100         | 8000     |
| FSSSPPSM0612 | #6 x 1 1/2 | 100         | 6000     |
| FSSSPPSM0802 | #8 x 1/4   | 100         | 10000    |
| FSSSPPSM0803 | #8 x 3/8   | 100         | 10000    |
| FSSSPPSM0804 | #8 x 1/2   | 100         | 5000     |
| FSSSPPSM0805 | #8 x 5/8   | 100         | 10000    |
| FSSSPPSM0806 | #8 x 3/4   | 100         | 8000     |
| FSSSPPSM0808 | #8 x 1     | 100         | 7000     |
| FSSSPPSM0810 | #8 x 1 1/4 | 100         | 5500     |
| FSSSPPSM0812 | #8 x 1 1/2 | 100         | 4500     |
| FSSSPPSM0814 | #8 x 1 3/4 | 100         | 3800     |

| Part #       | Size        | Package Qty | Bulk Qty |
|--------------|-------------|-------------|----------|
| FSSSPPSM0816 | #8 x 2      | 100         | 3200     |
| FSSSPPSM1004 | #10 x 1/2   | 100         | 10000    |
| FSSSPPSM1005 | #10 x 5/8   | 100         | 8000     |
| FSSSPPSM1006 | #10 x 3/4   | 100         | 7000     |
| FSSSPPSM1008 | #10 x 1     | 100         | 2000     |
| FSSSPPSM1010 | #10 x 1 1/4 | 100         | 4300     |
| FSSSPPSM1012 | #10 x 1 1/2 | 100         | 3500     |
| FSSSPPSM1016 | #10 x 2     | 100         | 1000     |
| FSSSPPSM1018 | #10 x 2 1/4 | 100         | 2000     |
| FSSSPPSM1024 | #10 x 3     | 100         | 1500     |
| FSSSPPSM1206 | #12 x 3/4   | 100         | 5500     |
| FSSSPPSM1208 | #12 x 1     | 100         | 4300     |
| FSSSPPSM1212 | #12 x 1 1/2 | 100         | 3000     |
| FSSSPPSM1216 | #12 x 2     | 100         | 2000     |
| FSSSPPSM1406 | 1/4 x 3/4   | 100         | 4000     |
| FSSSPPSM1408 | 1/4 x 1     | 100         | 3200     |
| FSSSPPSM1410 | 1/4 x 1 1/4 | 100         | 2500     |
| FSSSPPSM1412 | 1/4 x 1 1/2 | 100         | 2000     |
| FSSSPPSM1416 | 1/4 x 2     | 100         | 1500     |

## PHILLIPS TRUSS HEAD SHEET METAL SCREWS

TYPE A OR AB • ZINC PLATED • IMPORTED

| Part #     | Size       | Package Qty | Bulk Qty |
|------------|------------|-------------|----------|
| FSPTSM0812 | #8 x 1 1/2 | 100         | 3000     |
| FSPTSM1004 | #10 x 1/2  | 100         | 6700     |



18-8 STAINLESS STEEL • TYPE A • IMPORTED

| Part #      | Size      | Package Qty | Bulk Qty |
|-------------|-----------|-------------|----------|
| FSSPTSM0804 | #8 x 1/2  | 100         | 9300     |
| FSSPTSM0805 | #8 x 5/8  | 100         | 5000     |
| FSSPTSM0808 | #8 x 1    | 100         | 3500     |
| FSSPTSM1406 | 1/4 x 3/4 | 100         | 4700     |



## PHILLIPS OVAL HEAD SHEET METAL SCREWS

TYPE A OR AB • ZINC PLATED • IMPORTED

| Part #     | Size     | Package Qty | Bulk Qty |
|------------|----------|-------------|----------|
| FSPOSM0603 | #6 x 3/8 | 100         | 17300    |
| FSPOSM0806 | #8 x 3/4 | 100         | 6300     |
| FSPOSM0808 | #8 x 1   | 100         | 3000     |



18-8 STAINLESS STEEL • TYPE A • IMPORTED

| Part #      | Size        | Package Qty | Bulk Qty |
|-------------|-------------|-------------|----------|
| FSSPOSM0610 | #6 x 1 1/4  | 100         | 4750     |
| FSSPOSM0806 | #8 x 3/4    | 100         | 5000     |
| FSSPOSM0808 | #8 x 1      | 100         | 4500     |
| FSSPOSM0812 | #8 x 1 1/2  | 100         | 2500     |
| FSSPOSM1008 | #10 x 1     | 100         | 5000     |
| FSSPOSM1012 | #10 x 1 1/2 | 100         | 4000     |



# QUAD DRIVE FLAT HEAD SHEET METAL SCREWS, SQUARE DRIVE FLAT HEAD SHEET METAL SCREWS

## QUAD DRIVE FLAT HEAD SHEET METAL SCREWS

ZINC PLATED • IMPORTED

| Part #     | Size       | Package Qty | Bulk Qty |
|------------|------------|-------------|----------|
| FSQFSM0808 | #8 x 1     | 100         | 4500     |
| FSQFSM0810 | #8 x 1 1/4 | 100         | 3250     |



## SQUARE DRIVE FLAT HEAD SHEET METAL SCREWS

TYPE A OR AB • ZINC PLATED • IMPORTED



| Part #     | Size       | Package Qty | Bulk Qty | Part #     | Size        | Package Qty | Bulk Qty |
|------------|------------|-------------|----------|------------|-------------|-------------|----------|
| FSSFSM0604 | #6 x 1/2   | 100         | 6500     | FSSFSM0808 | #8 x 1      | 100         | 4500     |
| FSSFSM0605 | #6 x 5/8   | 100         | 5500     | FSSFSM0810 | #8 x 1 1/4  | 100         | 3250     |
| FSSFSM0606 | #6 x 3/4   | 100         | 5000     | FSSFSM0812 | #8 x 1 1/2  | 100         | 2500     |
| FSSFSM0608 | #6 x 1     | 100         | 4250     | FSSFSM0814 | #8 x 1 3/4  | 100         | 2000     |
| FSSFSM0610 | #6 x 1 1/4 | 100         | 4000     | FSSFSM0816 | #8 x 2      | 100         | 1800     |
| FSSFSM0804 | #8 x 1/2   | 100         | 14000    | FSSFSM1006 | #10 x 3/4   | 100         | 8000     |
| FSSFSM0805 | #8 x 5/8   | 100         | 5000     | FSSFSM1008 | #10 x 1     | 100         | 3250     |
| FSSFSM0806 | #8 x 3/4   | 100         | 5000     | FSSFSM1012 | #10 x 1 1/2 | 100         | -        |

TYPE A OR AB • 18/8 STAINLESS STEEL • IMPORTED

| Part #      | Size        | Package Qty | Bulk Qty |
|-------------|-------------|-------------|----------|
| FSSSFSM0406 | #4 x 3/4    | 100         | -        |
| FSSSFSM0604 | #6 x 1/2    | 100         | 15000    |
| FSSSFSM0606 | #6 x 3/4    | 100         | 15000    |
| FSSSFSM0608 | #6 x 1      | 100         | 15000    |
| FSSSFSM0804 | #8 x 1/2    | 100         | -        |
| FSSSFSM0806 | #8 x 3/4    | 100         | 12000    |
| FSSSFSM0808 | #8 x 1      | 100         | 4500     |
| FSSSFSM1420 | 1/4 x 2 1/2 | 100         | 1000     |



## SQUARE DRIVE PAN HEAD SHEET METAL SCREWS

TYPE A OR AB • ZINC PLATED • IMPORTED



| Part #     | Size       | Package Qty | Bulk Qty | Part #     | Size        | Package Qty | Bulk Qty |
|------------|------------|-------------|----------|------------|-------------|-------------|----------|
| FSSPSM0604 | #6 x 1/2   | 100         | 7000     | FSSPSM0810 | #8 x 1 1/4  | 100         | 2750     |
| FSSPSM0606 | #6 x 3/4   | 100         | 5000     | FSSPSM0812 | #8 x 1 1/2  | 100         | 2250     |
| FSSPSM0608 | #6 x 1     | 100         | 5000     | FSSPSM0816 | #8 x 2      | 100         | 1700     |
| FSSPSM0610 | #6 x 1 1/4 | 100         | 4000     | FSSPSM1006 | #10 x 3/4   | 100         | 3000     |
| FSSPSM0612 | #6 x 1 1/2 | 100         | 3000     | FSSPSM1008 | #10 x 1     | 100         | 2750     |
| FSSPSM0805 | #8 x 5/8   | 100         | 5500     | FSSPSM1010 | #10 x 1 1/4 | 100         | 2000     |
| FSSPSM0806 | #8 x 3/4   | 100         | 5500     | FSSPSM1012 | #10 x 1 1/2 | 100         | 1750     |
| FSSPSM0808 | #8 x 1     | 100         | 3000     |            |             |             |          |

18-8 STAINLESS STEEL • TYPE A • IMPORTED

| Part #      | Size        | Package Qty | Bulk Qty |
|-------------|-------------|-------------|----------|
| FSSSPSM0604 | #6 x 1/2    | 100         | -        |
| FSSSPSM0606 | #6 x 3/4    | 100         | 5000     |
| FSSSPSM0608 | #6 x 1      | 100         | 5000     |
| FSSSPSM0806 | #8 x 3/4    | 100         | 5000     |
| FSSSPSM0808 | #8 x 1      | 100         | 3500     |
| FSSSPSM0812 | #8 x 1 1/2  | 100         | 2250     |
| FSSSPSM1006 | #10 x 3/4   | 100         | 3500     |
| FSSSPSM1012 | #10 x 1 1/2 | 100         | 1750     |



## HEX WASHER HEAD SHEET METAL SCREWS

### HEX WASHER HEAD SHEET METAL SCREWS



TYPE A OR AB • ZINC PLATED • IMPORTED

| Part #     | Size        | Package Qty | Bulk Qty | Part #     | Size        | Package Qty | Bulk Qty |
|------------|-------------|-------------|----------|------------|-------------|-------------|----------|
| FSHWSM0804 | #8 x 1/2    | 100         | 14000    | FSHWSM1212 | #12 x 1 1/2 | 100         | 3000     |
| FSHWSM0806 | #8 x 3/4    | 100         | 6300     | FSHWSM1404 | 1/4 x 1/2   | 100         | -        |
| FSHWSM0808 | #8 x 1      | 100         | 7000     | FSHWSM1406 | 1/4 x 3/4   | 100         | 2700     |
| FSHWSM0816 | #8 x 2      | 100         | 4000     | FSHWSM1408 | 1/4 x 1     | 100         | 2100     |
| FSHWSM1004 | #10 x 1/2   | 100         | 6700     | FSHWSM1410 | 1/4 x 1 1/4 | 100         | 1700     |
| FSHWSM1006 | #10 x 3/4   | 100         | 4700     | FSHWSM1412 | 1/4 x 1 1/2 | 100         | 1300     |
| FSHWSM1008 | #10 x 1     | 100         | 5500     | FSHWSM1416 | 1/4 x 2     | 100         | 1000     |
| FSHWSM1010 | #10 x 1 1/4 | 100         | 2500     | FSHWSM1420 | 1/4 x 2 1/2 | 100         | 800      |
| FSHWSM1012 | #10 x 1 1/2 | 100         | 4000     | FSHWSM1424 | 1/4 x 3     | 100         | 700      |
| FSHWSM1016 | #10 x 2     | 100         | 1700     | FSHWSM1432 | 1/4 x 4     | 100         | 700      |
| FSHWSM1206 | #12 x 3/4   | 100         | 3000     | FSHWSM506  | 5/16 x 3/4  | 100         | -        |
| FSHWSM1208 | #12 x 1     | 100         | 4300     | FSHWSM516  | 5/16 x 2    | 100         | 1000     |

### 18-8 STAINLESS STEEL • TYPE A • IMPORTED

| Part #       | Size        | Package Qty | Bulk Qty |
|--------------|-------------|-------------|----------|
| FSSSHWSM1004 | #10 x 1/2   | 100         | 6700     |
| FSSSHWSM1006 | #10 x 3/4   | 100         | 4700     |
| FSSSHWSM1008 | #10 x 1     | 100         | 5500     |
| FSSSHWSM1010 | #10 x 1 1/4 | 100         | -        |
| FSSSHWSM1012 | #10 x 1 1/2 | 100         | -        |
| FSSSHWSM1208 | #12 x 1     | 100         | 4300     |
| FSSSHWSM1212 | #12 x 1 1/2 | 100         | 3000     |
| FSSSHWSM1406 | 1/4 x 3/4   | 100         | 2700     |
| FSSSHWSM1412 | 1/4 x 1 1/2 | 100         | 1300     |
| FSSSHWSM1424 | 1/4 x 3     | 100         | 700      |



## HEX WASHER HEAD SELF DRILLING SCREWS (TEK SCREWS)

### ZINC PLATED • IMPORTED

Self Drilling Screws are hardened and are designed to drill their own way through metal removing the step of pre-drilling holes. Wood to Metal self drilling screws have wings which enlarge the hole in the wood then break off when they reach the metal so the wood will draw tight to the metal.



| Part #  | Size        | Package Qty | Bulk Qty | Part #   | Size         | Package Qty | Bulk Qty |
|---------|-------------|-------------|----------|----------|--------------|-------------|----------|
| FTS0604 | #6 x 1/2    | 100         | 15000    | FTS1210  | #12 x 1 1/4  | 100         | 3000     |
| FTS0606 | #6 x 3/4    | 100         | 10000    | FTS1212  | #12 x 1 1/2  | 100         | 3000     |
| FTS0608 | #6 x 1      | 100         | 6700     | FTS1214  | #12 x 1 3/4  | 100         | 1300     |
| FTS0610 | #6 x 1 1/4  | 100         | 5300     | FTS1216  | #12 x 2      | 100         | 2000     |
| FTS0612 | #6 x 1 1/2  | 100         | 8000     | FTS1220  | #12 x 2 1/2  | 100         | 1500     |
| FTS0804 | #8 x 1/2    | 100         | 10000    | FTS1406  | #14 x 3/4    | 100         | 4000     |
| FTS0805 | #8 x 5/8    | 100         | 10000    | FTS1408  | 1/4 x 1      | 100         | 3000     |
| FTS0806 | #8 x 3/4    | 100         | 10000    | FTS1410  | 1/4 x 1 1/4  | 100         | 2000     |
| FTS0808 | #8 x 1      | 100         | 8000     | FTS1412  | 1/4 x 1 1/2  | 100         | 2000     |
| FTS0810 | #8 x 1 1/4  | 100         | 5000     | FTS1414  | 1/4 x 1 3/4  | 100         | 1500     |
| FTS0812 | #8 x 1 1/2  | 100         | 5000     | FTS1416  | 1/4 x 2      | 100         | 1500     |
| FTS0814 | #8 x 1 3/4  | 100         | 2000     | FTS1420  | 1/4 x 2 1/2  | 100         | 1000     |
| FTS0816 | #8 x 2      | 100         | 3000     | FTS1424  | 1/4 x 3      | 100         | 1000     |
| FTS1004 | #10 x 1/2   | 100         | 8000     | FTS1432  | 1/4 x 4      | 100         | 500      |
| FTS1005 | #10 x 5/8   | 100         | 8000     | FTS1448  | 1/4 x 6      | 100         | 500      |
| FTS1006 | #10 x 3/4   | 100         | 8000     | FTS508   | 5/16 x 1     | 100         | 1500     |
| FTS1008 | #10 x 1     | 100         | 5000     | FTS512   | 5/16 x 1 1/2 | 100         | 2000     |
| FTS1010 | #10 x 1 1/4 | 100         | 4000     | FTS516   | 5/16 x 2     | 100         | 700      |
| FTS1012 | #10 x 1 1/2 | 100         | 3000     | FTSS7516 | 5/16 x 2*    | 100         | 1000     |
| FTS1014 | #10 x 1 3/4 | 100         | -        | FTS524   | 5/16 x 3     | 100         | 500      |
| FTS1016 | #10 x 2     | 100         | 2000     | FTS608   | 3/8 x 1      | 100         | 700      |
| FTS1020 | #10 x 2 1/2 | 100         | 1000     | FTS612   | 3/8 x 1 1/2  | 100         | 600      |
| FTS1206 | #12 x 3/4   | 100         | 4000     |          |              |             |          |
| FTS1208 | #12 x 1     | 100         | 4000     |          |              |             |          |

\*7/16 AF #3 Tip Serrated



# HEX WASHER HEAD SELF DRILLING SCREWS (TEK SCREWS), HEX WASHER HEAD SELF DRILLING SCREWS WITH NEOPRENE WASHERS(TEK SCREWS)

## PROCORR COATED ▪ MADE IN USA OR IMPORTED

| Part #    | Size           | Package Qty | Bulk Qty |
|-----------|----------------|-------------|----------|
| FTSC1006  | #10 x 3/4      | 100         | 6000     |
| FTSC1206  | #12 x 3/4      | 100         | 5000     |
| FTSC1208  | #12 x 1        | 100         | 4000     |
| FTSCF1210 | #12-24 x 1 1/4 | 100         | 3500     |
| FTSC1408  | 1/4 x 1        | 100         | 2500     |
| FTSC1410  | 1/4 x 1 1/4    | 100         | 2000     |
| FTSC1416  | 1/4 x 2        | 100         | 1500     |
| FTSC1424  | 1/4 x 3        | 100         | 800      |



## 410 STAINLESS STEEL ▪ IMPORTED

| Part #    | Size        | Package Qty | Bulk Qty |
|-----------|-------------|-------------|----------|
| FSSTS0804 | #8 x 1/2    | 100         | -        |
| FSSTS0806 | #8 x 3/4    | 100         | -        |
| FSSTS0808 | #8 x 1      | 100         | -        |
| FSSTS1004 | #10 x 1/2   | 100         | -        |
| FSSTS1006 | #10 x 3/4   | 100         | 3500     |
| FSSTS1008 | #10 x 1     | 100         | -        |
| FSSTS1010 | #10 x 1 1/4 | 100         | -        |
| FSSTS1012 | #10 x 1 1/2 | 100         | -        |
| FSSTS1016 | #10 x 2     | 100         | -        |

| Part #    | Size        | Package Qty | Bulk Qty |
|-----------|-------------|-------------|----------|
| FSSTS1206 | #12 x 3/4   | 100         | -        |
| FSSTS1208 | #12 x 1     | 100         | -        |
| FSSTS1212 | #12 x 1 1/2 | 100         | -        |
| FSSTS1406 | 1/4 x 3/4   | 100         | -        |
| FSSTS1408 | 1/4 x 1     | 100         | -        |
| FSSTS1410 | 1/4 x 1 1/4 | 100         | -        |
| FSSTS1412 | 1/4 x 1 1/2 | 100         | -        |
| FSSTS1416 | 1/4 x 2     | 100         | -        |



# HEX WASHER HEAD SELF DRILLING SCREWS WITH NEOPRENE WASHERS(TEK SCREWS)

## ZINC PLATED ▪ IMPORTED

| Part #   | Size        | Package Qty | Bulk Qty |
|----------|-------------|-------------|----------|
| FTSN1408 | 1/4 x 1     | 100         | 2500     |
| FTSN1412 | 1/4 x 1 1/2 | 100         | 1500     |



## PHILLIPS FLAT HEAD SELF DRILLING SCREWS

### ZINC PLATED • IMPORTED



| Part #     | Size          | Package Qty | Bulk Qty | Part #     | Size        | Package Qty | Bulk Qty |
|------------|---------------|-------------|----------|------------|-------------|-------------|----------|
| FSPFSD0606 | #6 x 3/4      | 100         | 6700     | FSPFSD1212 | #12 x 1 1/2 | 100         | 2000     |
| FSPFSD0808 | #8 x 1        | 100         | 5000     | FSPFSD1408 | 14 x 1      | 100         | 3000     |
| FSPFSD0812 | #8-18 x 1 1/2 | 100         | 4500     | FSPFSD1410 | #14 x 1 1/4 | 100         | 2000     |
| FSPFSD1006 | #10 x 3/4     | 100         | 5000     | FSPFSD1412 | #14 x 1 1/2 | 100         | 2000     |
| FSPFSD1008 | #10 x 1       | 100         | 5500     | FSPFSD1416 | #14 x 2     | 50          | 1500     |
| FSPFSD1010 | #10 x 1 1/4   | 100         | 4000     | FSPFSD1424 | 14 x 3      | 50          | 1000     |
| FSPFSD1012 | #10 x 1 1/2   | 100         | 3000     |            |             |             |          |

### 410 STAINLESS STEEL • IMPORTED

| Part #      | Size     | Package Qty |
|-------------|----------|-------------|
| FSSPFSD0804 | #8 x 1/2 | 100         |



### WINGED • WOOD TO METAL • ZINC PLATED • IMPORTED

| Part #      | Size           | Package Qty | Bulk Qty |
|-------------|----------------|-------------|----------|
| FSPFSDW1216 | #12-24 x 2     | 100         | 2000     |
| FSPFSDW1220 | #12-24 x 2 1/2 | 100         | 1000     |
| FSPFSDW1422 | 1/4-20 x 2 3/4 | 100         | 1000     |
| FSPFSDW1424 | 1/4-20 x 3     | 100         | 1000     |



### WINGED • WOOD TO METAL • WAR COATED • IMPORTED

| Part #       | Size           | Package Qty | Bulk Qty |
|--------------|----------------|-------------|----------|
| FSPFSDWW1216 | #12-24 x 2     | 100         | 2000     |
| FSPFSDWW1422 | 1/4-20 x 2 3/4 | 100         | 1000     |
| FSPFSDWW1430 | 1/4-20 x 3 3/4 | 50          | 500      |



# PHILLIPS WAFER HEAD SELF DRILLING SCREWS, PHILLIPS PAN HEAD SELF DRILLING SCREWS

## PHILLIPS WAFER HEAD SELF DRILLING SCREWS

### ZINC PLATED • IMPORTED

| Part #     | Size           | Package Qty | Bulk Qty |
|------------|----------------|-------------|----------|
| FSPWSD0806 | #8 x 3/4       | 100         | 10000    |
| FSPWSD0808 | #8 x 1         | 100         | -        |
| FSPWSD1006 | #10 x 3/4      | 100         | -        |
| FSPWSD1008 | #10-24 x 1     | 100         | 3000     |
| FSPWSD1010 | #10-24 x 1 1/4 | 100         | 3000     |
| FSPWSD1012 | #10 x 1 1/2    | 100         | 2500     |
| FSPWSD1422 | #14 x 2 3/4    | 100         | 1000     |



### WINGED • WOOD TO METAL • ZINC PLATED • IMPORTED

| Part #      | Size            | Package Qty | Bulk Qty |
|-------------|-----------------|-------------|----------|
| FSPWSDW1011 | #10-24 x 1 7/16 | 100         | 4000     |



## PHILLIPS PAN HEAD SELF DRILLING SCREWS

### ZINC PLATED • IMPORTED



| Part #       | Size       | Package Qty | Bulk Qty | Part #     | Size        | Package Qty | Bulk Qty |
|--------------|------------|-------------|----------|------------|-------------|-------------|----------|
| FSPPSD0604   | #6 x 1/2   | 100         | 10000    | FSPPSD1006 | #10 x 3/4   | 100         | 5000     |
| FSPPSD0606   | #6 x 3/4   | 100         | 6700     | FSPPSD1008 | #10 x 1     | 100         | 3300     |
| FSPPSD0608   | #6 x 1     | 100         | -        | FSPPSD1010 | #10 x 1 1/4 | 100         | -        |
| FSPPSD0804   | #8 x 1/2   | 100         | 6700     | FSPPSD1012 | #10 x 1 1/2 | 100         | 3000     |
| FSPPSD0806   | #8 x 3/4   | 100         | 6700     | FSPPSD1016 | #10 x 2     | 100         | 2000     |
| FSPPSDBZ0806 | #8 x 3/4*  | 100         | 9000     | FSPPSD1206 | #12 x 3/4   | 100         | -        |
| FSPPSD0808   | #8 x 1     | 100         | 5000     | FSPPSD1208 | #12 x 1     | 100         | 3300     |
| FSPPSD0810   | #8 x 1 1/4 | 100         | -        | FSPPSD1408 | 1/4 x 1     | 100         | 2000     |
| FSPPSD0812   | #8 x 1 1/2 | 100         | 3300     | FSPPSD1412 | 1/4 x 1 1/2 | 100         | 1500     |
| FSPPSD1004   | #10 x 1/2  | 100         | 6700     |            |             |             |          |

\*Black Zinc

# PHILLIPS PAN HEAD SELF DRILLING SCREWS, PHILLIPS MODIFIED TRUSS HEAD SELF DRILLING SCREWS, SQUARE DRIVE FLAT HEAD SELF DRILLING SCREWS

## 410 STAINLESS STEEL • IMPORTED

| Part #       | Size        | Package Qty | Bulk Qty |
|--------------|-------------|-------------|----------|
| FSSSPPSD0603 | #6 x 3/8    | 100         | 10000    |
| FSSSPPSD0804 | #8 x 1/2    | 100         | 5000     |
| FSSSPPSD0806 | #8 x 3/4    | 100         | 10000    |
| FSSSPPSD0808 | #8 x 1      | 100         | 8000     |
| FSSSPPSD1006 | #10 x 3/4   | 100         | -        |
| FSSSPPSD1008 | #10 x 1     | 100         | 5000     |
| FSSSPPSD1208 | #12 x 1     | 100         | -        |
| FSSSPPSD1212 | #12 x 1 1/2 | 100         | -        |
| FSSSPPSD1408 | 1/4 x 1     | 100         | 1700     |



## PHILLIPS MODIFIED TRUSS HEAD SELF DRILLING SCREWS

### ZINC PLATED • IMPORTED

| Part #      | Size      | Package Qty | Bulk Qty |
|-------------|-----------|-------------|----------|
| FSPMTSD1006 | #10 x 3/4 | 100         | 7000     |



## SQUARE DRIVE FLAT HEAD SELF DRILLING SCREWS

### 410 STAINLESS STEEL • IMPORTED

| Part #      | Size        | Package Qty | Bulk Qty |
|-------------|-------------|-------------|----------|
| FSSSFSD1008 | #10 x 1     | 100         | -        |
| FSSSFSD1010 | #10 x 1 1/4 | 100         | -        |
| FSSSFSD1012 | #10 x 1 1/2 | 100         | 3000     |



# SQUARE DRIVE PAN HEAD, SQUARE DRIVE PANCAKE HEAD SELF DRILLING SCREWS, DOUBLE SQUARE CARGO-TEC SELF DRILLING SCREWS

## SQUARE DRIVE PAN HEAD SELF DRILLING SCREWS

ZINC PLATED • IMPORTED

| Part #     | Size        | Package Qty | Bulk Qty |
|------------|-------------|-------------|----------|
| FSSPSD0804 | #8 x 1/2    | 100         | 7000     |
| FSSPSD0806 | #8 x 3/4    | 100         | 5000     |
| FSSPSD0808 | #8 x 1      | 100         | 4000     |
| FSSPSD1006 | #10 x 3/4   | 100         | 4000     |
| FSSPSD1008 | #10 x 1     | 100         | 3000     |
| FSSPSD1012 | #10 x 1 1/2 | 100         | 3000     |



410 STAINLESS STEEL • IMPORTED

| Part #      | Size        | Package Qty | Bulk Qty |
|-------------|-------------|-------------|----------|
| FSSSPSD0806 | #8 x 3/4    | 100         | 10000    |
| FSSSPSD0808 | #8 x 1      | 100         | -        |
| FSSSPSD1006 | #10 x 3/4   | 100         | 4000     |
| FSSSPSD1008 | #10 x 1     | 100         | 5000     |
| FSSSPSD1005 | #10 x 5/8   | 100         | 5000     |
| FSSSPSD1020 | #10 x 2 1/2 | 100         | -        |



## SQUARE DRIVE PANCAKE HEAD SELF DRILLING SCREWS

SQUARE #2 • ZINC PLATED

| Part #      | Size       | Package Qty | Bulk Qty |
|-------------|------------|-------------|----------|
| FSSPCSD1008 | #10-16 x 1 | 100         | 5000     |



## DOUBLE SQUARE CARGO-TEC SELF DRILLING SCREWS

ZINC PLATED • IMPORTED

| Part #      | Size    | Package Qty | Bulk Qty |
|-------------|---------|-------------|----------|
| FSDSTSD1108 | #10 x 1 | 100         | 5000     |



# TORX FLOORING SCREWS, 6-LOBE PAN HEAD THREAD CUTTING SCREWS, PHILLIPS PAN HEAD THREAD CUTTING SCREWS

## TORX FLOORING SCREWS

### TYPE F • BLACK PHOSPHATE & OIL • IMPORTED

Thread Cutting Screws are designed to thread their own way into a predrilled hole. They have a surface Rockwell hardness of C45 or more. They should be used with a material whose Rockwell hardness is at least 10 points lower.



| Part #   | Size           | Torx Size | Package Qty | Bulk Qty | Part #   | Size            | Torx Size | Package Qty | Bulk Qty |
|----------|----------------|-----------|-------------|----------|----------|-----------------|-----------|-------------|----------|
| FTFS0404 | 1/4-20 X 1     | T30       | 100         | 2500     | FTFS0504 | 5/16-18 X 1     | T40       | 100         | 1600     |
| FTFS0405 | 1/4-20 X 1 1/4 | T30       | 100         | 2500     | FTFS0506 | 5/16-18 X 1 1/2 | T40       | 100         | 1400     |
| FTFS0406 | 1/4-20 X 1 1/2 | T30       | 100         | 2200     | FTFS0508 | 5/16-18 X 2     | T40       | 100         | 900      |
| FTFS0408 | 1/4-20 X 2     | T30       | 100         | 1700     | FTFS0509 | 5/16-18 X 2 1/4 | T40       | 100         | 800      |
| FTFS0409 | 1/4-20 X 2 1/4 | T30       | 100         | 1600     | FTFS0510 | 5/16-18 X 2 1/2 | T40       | 100         | 700      |
| FTFS0410 | 1/4-20 X 2 1/2 | T30       | 100         | 1400     | FTFS0512 | 5/16-18 X 3     | T40       | 100         | 600      |
| FTFS0412 | 1/4-20 X 3     | T30       | 100         | 1200     | FTFS0608 | 3/8-16 X 2      | T40       | 50          | 600      |

## 6-LOBE PAN HEAD THREAD CUTTING SCREWS

### TYPE F • ZINC PLATED • IMPORTED

| Part #    | Size            | Torx Size | Package Qty | Bulk Qty |
|-----------|-----------------|-----------|-------------|----------|
| FSTPST508 | 5/16-18 X 1     | T40       | 100         | 1300     |
| FSTPST512 | 5/16-18 X 1 1/2 | T40       | 100         | -        |
| FSTPST516 | 5/16-18 X 2     | T40       | 100         | 700      |
| FSTPST608 | 3/8-16 X 1      | T40       | 100         | 800      |



## PHILLIPS PAN HEAD THREAD CUTTING SCREWS

### TYPE F • ZINC PLATED • IMPORTED

| Part #     | Size          | Phillips Size | Package Qty | Bulk Qty | Part #     | Size         | Phillips Size | Package Qty | Bulk Qty |
|------------|---------------|---------------|-------------|----------|------------|--------------|---------------|-------------|----------|
| FSPST0603  | #6-32 X 3/8   | #2            | 100         | 20000    | FSPST403   | 1/4-20 X 3/8 | #3            | 100         | 4000     |
| FSPST0803  | #8-32 X 3/8   | #2            | 100         | 12000    | FSPST404   | 1/4-20 X 1/2 | #3            | 50          | 3500     |
| FSPST0804  | #8-32 X 1/2   | #2            | 100         | 10000    | FSPST405   | 1/4-20 X 5/8 | #3            | 100         | 3000     |
| FSPST0805  | #8-32 X 5/8   | #2            | 100         | 9000     | FSPST406   | 1/4-20 X 3/4 | #3            | 100         | 3000     |
| FSPST0806  | #8-32 X 3/4   | #2            | 100         | 8000     | FSPSTF1006 | #10-32 X 3/4 | #2            | 100         | 5000     |
| FSPST10025 | #10-24 X 5/16 | #2            | 100         | -        |            |              |               |             |          |



# PHILLIPS PAN HEAD THREAD CUTTING SCREWS, HEX WASHER HEAD THREAD CUTTING SCREWS

## TYPE F • 18/8 STAINLESS STEEL • IMPORTED

| Part #         | Size         | Phillips Size | Package Qty | Bulk Qty |
|----------------|--------------|---------------|-------------|----------|
| FSS188SPPST406 | 1/4-20 X 3/4 | #3            | 100         | 1000     |



## TYPE F • 410 STAINLESS STEEL • IMPORTED

| Part #      | Size         | Phillips Size | Package Qty |
|-------------|--------------|---------------|-------------|
| FSSSPPST404 | 1/4-20 X 1/2 | #3            | 100         |



# HEX WASHER HEAD THREAD CUTTING SCREWS

## TYPE F • ZINC PLATED • IMPORTED



| Part #      | Size         | Package Qty | Bulk Qty | Part #    | Size            | Package Qty | Bulk Qty |
|-------------|--------------|-------------|----------|-----------|-----------------|-------------|----------|
| FSHWST0603  | #6-32 X 3/8  | 100         | -        | FSHWST412 | 1/4-20 X 1 1/2  | 100         | 1500     |
| FSHWST0803  | #8-32 X 3/8  | 100         | 10000    | FSHWST506 | 5/16-18 X 3/4   | 100         | 1250     |
| FSHWSTF1006 | #10-32 X 3/4 | 100         | -        | FSHWST508 | 5/16-18 X 1     | 100         | 1250     |
| FSHWST1004  | #10-24 X 1/2 | 100         | 5500     | FSHWST510 | 5/16-18 X 1 1/4 | 100         | 1000     |
| FSHWST404   | 1/4-20 X 1/2 | 100         | 2500     | FSHWST512 | 5/16-18 X 1 1/2 | 100         | 1000     |
| FSHWST405   | 1/4-20 X 5/8 | 100         | -        | FSHWST606 | 3/8-16 X 3/4    | 100         | 800      |
| FSHWST406   | 1/4-20 X 3/4 | 100         | 2000     | FSHWST608 | 3/8-16 X 1      | 100         | 1000     |
| FSHWST408   | 1/4-20 X 1   | 100         | 2000     | FSHWST612 | 3/8-16 X 1 1/2  | 100         | 900      |

# HEX WASHER HEAD CONCRETE SCREWS, PHILLIPS FLAT HEAD CONCRETE SCREWS

## HEX WASHER HEAD CONCRETE SCREWS

### BLUE RUSPERT FINISH • IMPORTED

Concrete Screws cut their own threads in a predrilled hole in concrete, block, or brick.



| Part #    | Size         | Drill Size | Hex Size | Package Qty | Bulk Qty | Part #    | Size        | Drill Size | Hex Size | Package Qty | Bulk Qty |
|-----------|--------------|------------|----------|-------------|----------|-----------|-------------|------------|----------|-------------|----------|
| FSHRC0310 | 3/16 x 1-1/4 | 5/32       | 1/4      | 100         | 5000     | FSHRC0414 | 1/4 x 1-3/4 | 3/16       | 5/16     | 100         | 2250     |
| FSHRC0314 | 3/16 x 1-3/4 | 5/32       | 1/4      | 100         | 3300     | FSHRC0418 | 1/4 x 2-1/4 | 3/16       | 5/16     | 100         | 1800     |
| FSHRC0318 | 3/16 x 2-1/4 | 5/32       | 1/4      | 100         | 2400     | FSHRC0422 | 1/4 x 2-3/4 | 3/16       | 5/16     | 100         | 1000     |
| FSHRC0322 | 3/16 x 2-3/4 | 5/32       | 1/4      | 100         | 1800     | FSHRC0426 | 1/4 x 3-1/4 | 3/16       | 5/16     | 100         | 1000     |
| FSHRC0326 | 3/16 x 3-1/4 | 5/32       | 1/4      | 100         | 1200     | FSHRC0432 | 1/4 x 4     | 3/16       | 5/16     | 100         | 800      |
| FSHRC0410 | 1/4 x 1-1/4  | 3/16       | 5/16     | 100         | 2800     | FSHRC0440 | 1/4 x 5     | 3/16       | 5/16     | 100         | 600      |

### 410 STAINLESS STEEL • IMPORTED

| Part #      | Size        | Drill Size | Package Qty |
|-------------|-------------|------------|-------------|
| FSSSHRC0410 | 1/4 x 1-1/4 | 3/16       | 100         |
| FSSSHRC0414 | 1/4 x 1-3/4 | 3/16       | 100         |



## PHILLIPS FLAT HEAD CONCRETE SCREWS

### BLUE RUSPERT FINISH • IMPORTED

| Part #     | Size         | Drill Size | Phillips Size | Package Qty | Bulk Qty |
|------------|--------------|------------|---------------|-------------|----------|
| FSPFRC0310 | 3/16 x 1-1/4 | 5/32       | #2            | 100         | 5000     |
| FSPFRC0314 | 3/16 x 1-3/4 | 5/32       | #2            | 100         | 3300     |
| FSPFRC0318 | 3/16 x 2-1/4 | 5/32       | #2            | 100         | 2500     |
| FSPFRC0322 | 3/16 x 2-3/4 | 5/32       | #2            | 100         | 2500     |
| FSPFRC0410 | 1/4 x 1-1/4  | 3/16       | #3            | 100         | -        |
| FSPFRC0414 | 1/4 x 1-3/4  | 3/16       | #3            | 100         | 2250     |
| FSPFRC0418 | 1/4 x 2-1/4  | 3/16       | #3            | 100         | 1500     |
| FSPFRC0422 | 1/4 x 2-3/4  | 3/16       | #3            | 100         | 1000     |
| FSPFRC0426 | 1/4 x 3-1/4  | 3/16       | #3            | 100         | 1000     |
| FSPFRC0432 | 1/4 x 4      | 3/16       | #3            | 100         | 1000     |





# SQUARE DRIVE FLAT HEAD WOOD SCREWS

## SQUARE DRIVE FLAT HEAD WOOD SCREWS

### NIBS UNDER HEAD • TYPE 17 TIP • ZINC PLATED • IMPORTED

Flat Head Wood Screws come in zinc for general use, black oxide to match color on dark applications, and in exterior coating for use outside and with treated lumber. They typically come with a Phillips/square combo drive.



| Part #    | Size       | Package Qty | Bulk Qty | Part #    | Size        | Package Qty | Bulk Qty |
|-----------|------------|-------------|----------|-----------|-------------|-------------|----------|
| FSSFK0604 | #6 x 1/2   | 100         | 25000    | FSSFK0818 | #8 x 2 1/4  | 100         | 3000     |
| FSSFK0605 | #6 x 5/8   | 100         | 25000    | FSSFK0820 | #8 x 2 1/2  | 100         | 2500     |
| FSSFK0606 | #6 x 3/4   | 100         | 20000    | FSSFK0824 | #8 x 3      | 100         | 2000     |
| FSSFK0608 | #6 x 1     | 100         | 10000    | FSSFK0828 | #8 x 3 1/2  | 100         | 1500     |
| FSSFK0610 | #6 x 1 1/4 | 100         | 10000    | FSSFK1012 | #10 x 1 1/2 | 100         | 4000     |
| FSSFK0612 | #6 x 1 1/2 | 100         | 8000     | FSSFK1014 | #10 x 1 3/4 | 100         | 4000     |
| FSSFK0806 | #8 x 3/4   | 100         | 10000    | FSSFK1016 | #10 x 2     | 100         | 3000     |
| FSSFK0808 | #8 x 1     | 100         | 10000    | FSSFK1020 | #10 x 2 1/2 | 100         | 2000     |
| FSSFK0810 | #8 x 1 1/4 | 100         | 8000     | FSSFK1024 | #10 x 3     | 100         | 1500     |
| FSSFK0812 | #8 x 1 1/2 | 100         | 6000     | FSSFK1028 | #10 x 3 1/2 | 100         | 1000     |
| FSSFK0814 | #8 x 1 3/4 | 100         | 4000     | FSSFK1032 | #10 x 4     | 100         | 1000     |
| FSSFK0816 | #8 x 2     | 100         | 3500     | FSSFK1040 | #10 x 5     | 100         | 1000     |

### NIBS UNDER HEAD • TYPE 17 TIP • BLACK OXIDE • IMPORTED

| Part #      | Size       | Package Qty | Bulk Qty |
|-------------|------------|-------------|----------|
| FSSFKB00606 | #6 x 3/4   | 100         | 20000    |
| FSSFKB00808 | #8 x 1     | 100         | 10000    |
| FSSFKB00810 | #8 x 1 1/4 | 100         | 8000     |



### NIBS UNDER HEAD • TYPE 17 TIP • EXTERIOR COATED • IMPORTED

| Part #     | Size        | Package Qty | Bulk Qty |
|------------|-------------|-------------|----------|
| FSSFKW0809 | #8 x 1 1/8  | 100         | 10000    |
| FSSFKW0814 | #8 x 1 3/4  | 100         | 5000     |
| FSSFKW0816 | #8 x 2      | 100         | 4000     |
| FSSFKW0820 | #8 x 2 1/2  | 100         | 2500     |
| FSSFKW0824 | #8 x 3      | 100         | 2500     |
| FSSFKW1020 | #10 x 2 1/2 | 100         | 2000     |
| FSSFKW1024 | #10 x 3     | 100         | 1500     |
| FSSFKW1028 | #10 x 3 1/2 | 100         | 1000     |



# STAR DRIVE FLAT HEAD WOOD SCREWS, SQUARE BUGLE HEAD DECK SCREWS, SQUARE DRIVE ROUND WASHER HEAD WOOD SCREWS

## SQUARE DRIVE ROUND WASHER HEAD WOOD SCREWS

GRAY PHOSPHATE • IMPORTED

| Part #      | Size        | Package Qty | Bulk Qty |
|-------------|-------------|-------------|----------|
| FSSRWWB0806 | #8 x 3/4    | 100         | 10000    |
| FSSRWWB0808 | #8 x 1      | 100         | 10000    |
| FSSRWWB0812 | #8 x 1 1/2  | 100         | 5000     |
| FSSRWWB0816 | #8 x 2      | 100         | 4000     |
| FSSRWWB0820 | #8 x 2 1/2  | 100         | 3000     |
| FSSRWWB0824 | #8 x 3      | 100         | 2000     |
| FSSRWWB0828 | #8 x 3 1/2  | 100         | 1500     |
| FSSRWWB1006 | #10 x 3/4   | 100         | 8000     |
| FSSRWWB1010 | #10 x 1 1/4 | 100         | 5000     |
| FSSRWWB1016 | #10 x 2     | 100         | 3000     |



## STAR DRIVE FLAT HEAD WOOD SCREWS

NIBS UNDER HEAD • TYPE 17 TIP • EXTERIOR COATED • IMPORTED

| Part #   | Size        | Package Qty | Bulk Qty |
|----------|-------------|-------------|----------|
| FSTD0813 | #8 x 1 5/8  | 100         | 5000     |
| FSTD0816 | #8 x 2      | 100         | 3500     |
| FSTD0920 | #9 x 2 1/2  | 100         | 2500     |
| FSTD0924 | #9 x 3      | 100         | 2000     |
| FSTD1028 | #10 x 3 1/2 | 100         | 1000     |
| FSTD1032 | #10 x 4     | 100         | 800      |



## SQUARE BUGLE HEAD DECK SCREWS

18-8 STAINLESS STEEL • TYPE 17 TIP • IMPORTED

| Part #      | Size       | Package Qty | Bulk Qty |
|-------------|------------|-------------|----------|
| FSSSSBD0808 | #8 x 1     | 100         | 10000    |
| FSSSSBD0810 | #8 x 1 1/4 | 100         | 8000     |
| FSSSSBD0812 | #8 x 1 1/2 | 100         | 5000     |
| FSSSSBD0813 | #8 x 1 5/8 | 100         | 5000     |
| FSSSSBD0816 | #8 x 2     | 100         | 3500     |
| FSSSSBD0818 | #8 x 2 1/4 | 100         | 3000     |
| FSSSSBD0820 | #8 x 2 1/2 | 100         | 3000     |
| FSSSSBD0824 | #8 x 3     | 100         | 2000     |
| FSSSSBD1024 | #10 x 3    | 100         | 1500     |



# COMBO DRIVE ROUND WASHER HEAD WOOD SCREWS, PHILLIPS BUGLE HEAD DRYWALL SCREWS

## COMBO DRIVE ROUND WASHER HEAD WOOD SCREWS

### TYPE 17 TIP • ZINC PLATED • IMPORTED

Round Washer Head Wood Screws have a larger bearing surface for more holding power. They typically come in square/Phillips combo drive.



| Part #     | Size       | Package Qty | Bulk Qty | Part #     | Size        | Package Qty | Bulk Qty |
|------------|------------|-------------|----------|------------|-------------|-------------|----------|
| FSSRWW0804 | #8 x 1/2   | 100         | 14000    | FSSRWW0820 | #8 x 2 1/2  | 100         | 2000     |
| FSSRWW0805 | #8 x 5/8   | 100         | 12000    | FSSRWW0824 | #8 x 3      | 100         | 1500     |
| FSSRWW0806 | #8 x 3/4   | 100         | 10000    | FSSRWW0828 | #8 x 3 1/2  | 100         | 1500     |
| FSSRWW0808 | #8 x 1     | 100         | 8000     | FSSRWW1016 | #10 x 2     | 100         | 1000     |
| FSSRWW0810 | #8 x 1 1/4 | 100         | 6000     | FSSRWW1020 | #10 x 2 1/2 | 100         | 1500     |
| FSSRWW0812 | #8 x 1 1/2 | 100         | 5000     | FSSRWW1024 | #10 x 3     | 100         | 1500     |
| FSSRWW0814 | #8 x 1 3/4 | 100         | 5000     | FSSRWW1028 | #10 x 3 1/2 | 100         | 1000     |
| FSSRWW0816 | #8 x 2     | 100         | 3000     | FSSRWW1032 | #10 x 4     | 100         | 1000     |

### 18-8 STAINLESS STEEL • TYPE 17 TIP • IMPORTED

| Part #      | Size       | Package Qty | Bulk Qty |
|-------------|------------|-------------|----------|
| FSSSRWW0812 | #8 x 1 1/2 | 100         | 5000     |
| FSSSRWW0814 | #8 x 1 3/4 | 100         | 5000     |



## PHILLIPS BUGLE HEAD DRYWALL SCREWS

### BLACK PHOSPHATE • IMPORTED

| Part # | Size       | Package Qty | Bulk Qty |
|--------|------------|-------------|----------|
| FSD606 | #6 x 3/4   | 100         | 12000    |
| FSD608 | #6 x 1     | 100         | 10000    |
| FSD610 | #6 x 1 1/4 | 100         | 8000     |
| FSD613 | #6 x 1 5/8 | 100         | 5000     |



## U2 CAP SCREWS

### STAR DRIVE • OUTDOOR COATING

The U2 Cap Screw is an ideal light duty interior and exterior self tapping screw. This screw makes all your small projects easier with the drawdown strength of the head and a clean finish.

| Part #   | Size       | Drive Size | Package Qty | Bulk Qty |
|----------|------------|------------|-------------|----------|
| FSUC0812 | #8 x 1 1/2 | T15        | 100         | 3000     |
| FSUC0816 | #8 x 2     | T15        | 100         | 2000     |
| FSUC0820 | #8 x 2 1/2 | T15        | 100         | 1500     |
| FSUC0825 | #8 x 3 1/8 | T15        | 100         | 1000     |



## U2 UNIVERSAL SCREWS

### STAR DRIVE • OUTDOOR COATING

| Part #    | Size        | Drive Size | Package Qty | Bulk Qty |
|-----------|-------------|------------|-------------|----------|
| FSUU08012 | #8 x 1-1/2  | T15        | 100         | 6500     |
| FSUU08016 | #8 x 2      | T15        | 100         | 4500     |
| FSUU09020 | #9 x 2-1/2  | T25        | 100         | 2600     |
| FSUU09025 | #9 x 3-1/8  | T25        | 100         | 1500     |
| FSUU10028 | #10 x 3-1/2 | T25        | 100         | 1200     |
| FSUU10032 | #10 x 4     | T25        | 100         | 1000     |
| FSUU12048 | #12 x 6     | T25        | 50          | 500      |
| FSUU12064 | #12 x 8     | T25        | 50          | 300      |



## U2 CONSTRUCTION LAGS

### STAR DRIVE • OUTDOOR COATING

The U2 Construction Screw™ is a heavy duty structural fastener. Its design has the finished appearance of a conventional round head, and is created to provide an extra-large bearing surface under the head.



| Part #     | Size         | Drive Size | Package Qty | Bulk Qty | Part #   | Size         | Drive Size | Package Qty | Bulk Qty |
|------------|--------------|------------|-------------|----------|----------|--------------|------------|-------------|----------|
| FUTCL01012 | #10 x 1-1/2  | T25        | 100         | 2300     | FUTCL525 | 5/16 x 3-1/8 | T30        | 100         | 500      |
| FUTCL01016 | #10 x 2      | T25        | 100         | 1600     | FUTCL532 | 5/16 x 4     | T30        | 50          | 400      |
| FUTCL01020 | #10 x 2-1/2  | T25        | 100         | 1000     | FUTCL540 | 5/16 x 5     | T30        | 100         | 300      |
| FUTCL01025 | #10 x 3-1/8  | T25        | 50          | 800      | FUTCL548 | 5/16 x 6     | T30        | 50          | 300      |
| FUTCL412   | 1/4 x 1-1/2  | T25        | 50          | 1000     | FUTCL625 | 3/8 x 3-1/8  | T40        | 50          | 300      |
| FUTCL416   | 1/4 x 2      | T25        | 50          | 800      | FUTCL627 | 3/8 x 3-3/8  | T40        | 50          | 300      |
| FUTCL420   | 1/4 x 2-1/2  | T25        | 50          | 700      | FUTCL632 | 3/8 x 4      | T40        | 50          | 300      |
| FUTCL425   | 1/4 x 3-1/8  | T25        | 50          | 700      | FUTCL648 | 3/8 x 6      | T40        | 50          | 300      |
| FUTCL427   | 1/4 x 3-3/8  | T25        | 50          | 400      | FUTCL672 | 3/8 x 10     | T40        | 50          | 300      |
| FUTCL520   | 5/16 x 2-1/2 | T30        | 100         | 600      |          |              |            |             |          |

## U2 CONSTRUCTION LAGS, U2 FINE TRIM HEAD FINISHING SCREWS

### STAR DRIVE • OUTDOOR COATING (Sold by package quantity)



| Part #      | Size        | Drive Size | Package Qty | Part #    | Size         | Drive Size | Package Qty |
|-------------|-------------|------------|-------------|-----------|--------------|------------|-------------|
| FUTCL01012B | #10 x 1-1/2 | T25        | 282         | FUTCL420B | 1/4 x 2-1/2  | T25        | 166         |
| FUTCL01016B | #10 x 2     | T25        | 258         | FUTCL422B | 1/4 x 2-3/4  | T25        | 144         |
| FUTCL01020B | #10 x 2-1/2 | T25        | 240         | FUTCL425B | 1/4 x 3-1/8  | T25        | 131         |
| FUTCL01022B | #10 x 2-3/4 | T25        | 207         | FUTCL427B | 1/4 x 3-3/8  | T25        | 107         |
| FUTCL01025B | #10 x 3-1/8 | T25        | 180         | FUTCL520B | 5/16 x 2-1/2 | T30        | 100         |
| FUTCL412B   | 1/4 x 1-1/2 | T25        | 225         | FUTCL525B | 5/16 x 3-1/8 | T30        | 100         |
| FUTCL416B   | 1/4 x 2     | T25        | 179         | FUTCL532B | 5/16 x 4     | T30        | 100         |

## U2 FINE TRIM HEAD FINISHING SCREWS

### STAR DRIVE • OUTDOOR COATING

The U2 Fine Trim Head Finishing Screw is a self tapping fastener for fine woodworking. Can be used for siding or any delicate project like crown molding, baseboards, railings, PVC, and more.

| Part #     | Size       | Drive Size | Package Qty | Bulk Qty |
|------------|------------|------------|-------------|----------|
| FUSTTF0810 | #8 x 1-1/4 | T10        | 100         | 10000    |
| FUSTTF0812 | #8 x 1-1/2 | T10        | 100         | 6500     |
| FUSTTF0816 | #8 x 2     | T10        | 100         | 4500     |
| FUSTTF0820 | #8 x 2-1/2 | T10        | 100         | 3500     |
| FUSTTF0825 | #8 x 3-1/8 | T10        | 100         | 2000     |
| FUSTTF0940 | #9 x 5     | T10        | 100         | 800      |



### STAR DRIVE • WHITE

| Part #      | Size       | Drive Size | Package Qty | Bulk Qty |
|-------------|------------|------------|-------------|----------|
| FUSTTFW0816 | #8 x 2     | T10        | 100         | 4500     |
| FUSTTFW0820 | #8 x 2-1/2 | T10        | 100         | 3500     |



## THREADED ROD

### GRADE A • COARSE THREAD • ZINC PLATED • IMPORTED

Grade A Threaded Rod is manufactured to ASTM A307 Grade A specs. Tensile strength is a minimum of 60,000 psi.



| Part #   | Size          | Bulk Qty | Part #   | Size         | Bulk Qty |
|----------|---------------|----------|----------|--------------|----------|
| FTR20103 | #10-24 X 3'   | -        | FTR2086  | 1/2-13 X 6'  | 12       |
| FTR20106 | #10-24 X 6'   | 100      | FTR20810 | 1/2-13 X 10' | 12       |
| FTR2043  | 1/4-20 X 3'   | 50       | FTR2093  | 9/16-12 X 3' | 10       |
| FTR2046  | 1/4-20 X 6'   | 50       | FTR2096  | 9/16-12 X 6' | 10       |
| FTR20410 | 1/4-20 X 10'  | 50       | FTR2103  | 5/8-11 X 3'  | 8        |
| FTR20412 | 1/4-20 X 12'  | 50       | FTR2106  | 5/8-11 X 6'  | 8        |
| FTR2053  | 5/16-18 X 3'  | 35       | FTR21012 | 5/8-11 X 12' | 8        |
| FTR2056  | 5/16-18 X 6'  | 35       | FTR2123  | 3/4-10 X 3'  | 5        |
| FTR20510 | 5/16-18 X 10' | 35       | FTR2126  | 3/4-10 X 6'  | 5        |
| FTR2063  | 3/8-16 X 3'   | 25       | FTR21212 | 3/4-10 X 12' | 5        |
| FTR2066  | 3/8-16 X 6'   | 25       | FTR2143  | 7/8-9 X 3'   | 4        |
| FTR20610 | 3/8-16 X 10'  | 25       | FTR2146  | 7/8-9 X 6'   | 4        |
| FTR20612 | 3/8-16 X 12'  | 25       | FTR2163  | 1-8 X 3'     | 3        |
| FTR2073  | 7/16-14 X 3'  | 17       | FTR2166  | 1-8 X 6'     | 3        |
| FTR2076  | 7/16-14 X 6'  | 17       | FTR21610 | 1-8 X 10'    | 3        |
| FTR2083  | 1/2-13 X 3'   | 12       | FTR2186  | 1 1/8-7 X 6' | 2        |

### GRADE A • COARSE THREAD • PLAIN FINISH • IMPORTED

| Part #   | Size        | Bulk Qty |
|----------|-------------|----------|
| FTR2P066 | 3/8-16 X 6' | 25       |
| FTR2P086 | 1/2-13 X 6' | 12       |
| FTR2P106 | 5/8-11 X 6' | 8        |
| FTR2P126 | 3/4-10 X 6' | 5        |
| FTR2P146 | 7/8-9 X 6'  | 4        |
| FTR2P166 | 1-8 X 6'    | 3        |



## THREADED ROD

### GRADE A • FINE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size         | Bulk Qty |
|----------|--------------|----------|
| FTR2F043 | 1/4-28 X 3'  | 50       |
| FTR2F053 | 5/16-24 X 3' | 35       |
| FTR2F063 | 3/8-24 X 3'  | 25       |
| FTR2F073 | 7/16-20 X 3' | 17       |
| FTR2F083 | 1/2-20 X 3'  | 12       |
| FTR2F103 | 5/8-18 X 3'  | 8        |
| FTR2F123 | 3/4-16 X 3'  | 5        |
| FTR2F143 | 7/8-14 X 3'  | 4        |
| FTR2F163 | 1-14 X 3'    | 2        |



### LEFT HAND • GRADE A • COARSE THREAD • PLAIN FINISH • IMPORTED

| Part #   | Size        |
|----------|-------------|
| FTR2L066 | 3/8-16 X 6' |
| FTR2L086 | 1/2-13 X 6' |



### GRADE B7 • COARSE THREAD • PLAIN FINISH • IMPORTED

B7 Threaded Rod is manufactured to A193 Grade B7 specs. Tensile strength is a minimum of 125,000 psi for sizes up to 1 1/2.



| Part #    | Size         | Bulk Qty | Part #    | Size          | Bulk Qty |
|-----------|--------------|----------|-----------|---------------|----------|
| FTRB7043  | 1/4-20 X 3'  | 50       | FTRB7123  | 3/4-10 X 3'   | 5        |
| FTRB7046  | 1/4-20 X 6'  | 50       | FTRB7126  | 3/4-10 X 6'   | 5        |
| FTRB7053  | 5/16-18 X 3' | 35       | FTRB71212 | 3/4-10 X 12'  | 5        |
| FTRB7056  | 5/16-18 X 6' | 35       | FTRB7143  | 7/8-9 X 3'    | 4        |
| FTRB7063  | 3/8-16 X 3'  | 25       | FTRB7146  | 7/8-9 X 6'    | 4        |
| FTRB7066  | 3/8-16 X 6'  | 25       | FTRB7163  | 1-8 X 3'      | 3        |
| FTRB70612 | 3/8-16 X 12' | 25       | FTRB7166  | 1-8 X 6'      | 3        |
| FTRB7073  | 7/16-14 X 3' | 17       | FTRB71612 | 1-8 X 12'     | 3        |
| FTRB7076  | 7/16-14 X 6' | 17       | FTRB7183  | 1 1/8-7 X 3'  | 2        |
| FTRB7083  | 1/2-13 X 3'  | 12       | FTRB7186  | 1 1/8-7 X 6'  | 2        |
| FTRB7086  | 1/2-13 X 6'  | 12       | FTRB7203  | 1 1/4-7 X 3'  | 2        |
| FTRB70812 | 1/2-13 X 12' | 12       | FTRB7243  | 1 1/2-6 X 3'  | 1        |
| FTRB7103  | 5/8-11 X 3'  | 8        | FTRB7246  | 1 1/2-6 X 6'  | 1        |
| FTRB7106  | 5/8-11 X 6'  | 8        | FTRB72412 | 1 1/2-6 X 12' | 1        |

## GRADE B7 ▪ FINE THREAD ▪ PLAIN FINISH ▪ IMPORTED



| Part #    | Size         | Part #     | Size         |
|-----------|--------------|------------|--------------|
| FTRB7F046 | 1/4-28 X 6'  | FTRB7F103  | 5/8-18 X 3'  |
| FTRB7F056 | 5/16-24 X 6' | FTRB7F106  | 5/8-18 X 6'  |
| FTRB7F063 | 3/8-24 X 3'  | FTRB7F123  | 3/4-16 X 3'  |
| FTRB7F066 | 3/8-24 X 6'  | FTRB7F126  | 3/4-16 X 6'  |
| FTRB7F073 | 7/16-20 X 3' | FTRB7F1212 | 3/4-16 X 12' |
| FTRB7F083 | 1/2-20 X 3'  | FTRB7F143  | 7/8-14 X 3'  |
| FTRB7F086 | 1/2-20 X 6'  | FTRB7F163  | 1-14 X 3'    |

## GRADE 8HT ▪ COARSE THREAD ▪ YELLOW ZINC PLATED ▪ MADE IN USA

| Part #   | Size        |
|----------|-------------|
| FTR8Y063 | 1/2-13 X 3' |
| FTR8Y083 | 1/2-13 X 3' |
| FTR8Y103 | 5/8-11 X 3' |
| FTR8Y123 | 3/4-10 X 3' |
| FTR8Y163 | 1-8 X 3'    |



## 18-8 STAINLESS STEEL ▪ COARSE THREAD ▪ IMPORTED

| Part #   | Size         |
|----------|--------------|
| FSSTR046 | 1/4-20 X 6'  |
| FSSTR056 | 5/16-18 X 6' |
| FSSTR063 | 3/8-16 X 3'  |
| FSSTR066 | 3/8-16 X 6'  |
| FSSTR083 | 1/2-13 X 3'  |
| FSSTR086 | 1/2-13 X 6'  |
| FSSTR106 | 5/8-11 X 6'  |
| FSSTR126 | 3/4-10 X 6'  |
| FSSTR166 | 1-8 X 6'     |





## ACME THREADED ROD, THREADED ROD CONCRETE ANCHORS

### ACME THREADED ROD

#### LOW CARBON STEEL • PLAIN FINISH • MADE IN USA - Right Hand Threads

ACME Threaded Rod has threads that are broader, stronger, and more square than standard threads. It is excellent for use in frequent assembly and disassembly, dirty environments, and for adjusting and leveling screws.

| Part #     | Size       |
|------------|------------|
| EQ404-1008 | 5/8-8 X 6' |
| EQ404-1206 | 3/4-6 X 6' |
| EQ400-1406 | 7/8-6 X 3' |
| EQ404-1406 | 7/8-6 X 6' |
| EQ404-1604 | 1-4 X 6'   |
| EQ404-1605 | 1-5 X 6'   |



#### LOW CARBON STEEL • PLAIN FINISH • MADE IN USA - Left Hand Threads

| Part #     | Size       |
|------------|------------|
| EQ401-1406 | 7/8-6 X 6' |



### THREADED ROD CONCRETE ANCHORS

#### CARBON STEEL • ZINC PLATED

| Part #    | Size        | Drill Size | Hex Size | Package Qty |
|-----------|-------------|------------|----------|-------------|
| FTRHC0413 | 1/4 x 1-5/8 | 1/4        | 3/8      | 100         |



## WEDGE ANCHORS

### COARSE THREAD • ZINC PLATED • IMPORTED

Wedge anchors provide a simple and effective method for anchoring things to solid concrete or to grout filled concrete masonry. The wedge anchors that we carry are not suitable for use in cracked concrete. Wedge anchors for cracked concrete are available upon request. Size is given as diameter by length. The drill size to use is equal to the diameter.



| Part # | Size           | Package Qty | Bulk Qty | Part #  | Size           | Package Qty | Bulk Qty |
|--------|----------------|-------------|----------|---------|----------------|-------------|----------|
| FA0418 | 1/4-20 x 2-1/4 | 100         | 1000     | FA1048  | 5/8-11 x 6     | 20          | 65       |
| FA0618 | 3/8-16 x 2-1/4 | 50          | 425      | FA1056  | 5/8-11 x 7     | 4           | 55       |
| FA0624 | 3/8-16 x 3     | 50          | 350      | FA1068  | 5/8-11 x 8-1/2 | 4           | 50       |
| FA0630 | 3/8-16 x 3-3/4 | 50          | 400      | FA1234  | 3/4-10 x 4-1/4 | 10          | 60       |
| FA0640 | 3/8-16 x 5     | 50          | 225      | FA1238  | 3/4-10 x 4-3/4 | 15          | 80       |
| FA0822 | 1/2-13 x 2-3/4 | 50          | 200      | FA1244  | 3/4-10 x 5-1/2 | 10          | 70       |
| FA0830 | 1/2-13 x 3-3/4 | 25          | 250      | FA1256  | 3/4-10 x 7     | 4           | 40       |
| FA0836 | 1/2-13 x 4-1/2 | 25          | 125      | FA1268  | 3/4-10 x 8-1/2 | 1           | 14       |
| FA0844 | 1/2-13 x 5-1/2 | 25          | 150      | FA1280  | 3/4-10 x 10    | 4           | 14       |
| FA0856 | 1/2-13 x 7     | 4           | 90       | FA1296  | 3/4-10 x 12    | 4           | 12       |
| FA0868 | 1/2-13 x 8-1/2 | 4           | 90       | FA1648  | 1-8 x 6        | 4           | 12       |
| FA1028 | 5/8-11 x 3-1/2 | 25          | 125      | FA1672  | 1-8 x 9        | 5           | 8        |
| FA1036 | 5/8-11 x 4-1/2 | 20          | 100      | FA1696  | 1-8 x 12       | 5           | 6        |
| FA1040 | 5/8-11 x 5     | 20          | 100      | FA16120 | 1-8 x 15       | 4           | -        |

### 304 STAINLESS STEEL • COARSE THREAD • IMPORTED



| Part #   | Size           | Package Qty | Part #   | Size           | Package Qty |
|----------|----------------|-------------|----------|----------------|-------------|
| FSSA0426 | 1/4-20 x 3-1/4 | 100         | FSSA0830 | 1/2-13 x 3-3/4 | 50          |
| FSSA0618 | 3/8-16 x 2-1/4 | 100         | FSSA0834 | 1/2-13 x 4-1/4 | 25          |
| FSSA0624 | 3/8-16 x 3     | 100         | FSSA0844 | 1/2-13 x 5-1/2 | 25          |
| FSSA0630 | 3/8-16 x 3-3/4 | 100         | FSSA0856 | 1/2-13 x 7     | 25          |
| FSSA0640 | 3/8-16 x 5     | 50          | FSSA1040 | 5/8-11 x 5     | 25          |
| FSSA0822 | 1/2-13 x 2-3/4 | 50          | FSSA1048 | 5/8-11 x 6     | 25          |

# SLEEVE ANCHORS, SCREW ANCHORS, WELD STUD CONCRETE ANCHORS

## SLEEVE ANCHORS

### HEX NUT SLEEVE ANCHORS

| Part #  | Size    | Package Qty | Bulk Qty |
|---------|---------|-------------|----------|
| FASO624 | 3/8 x 3 | 50          | 400      |



### PHILLIPS FLAT HEAD SLEEVE ANCHORS

| Part #    | Size       | Package Qty | Bulk Qty |
|-----------|------------|-------------|----------|
| FASPF0416 | 1/4-20 x 2 | 100         | 1200     |
| FASPF0640 | 3/8 x 5    | 50          | 250      |
| FASPF0648 | 3/8 x 6    | 50          | 200      |



## SCREW ANCHORS

### ZINC PLATED • IMPORTED

High strength screw anchors for concrete and masonry are excellent for use in cracked and uncracked concrete.



| Part #   | Anchor Size | Thread OD | Package Qty | Bulk Qty | Part #    | Anchor Size | Thread OD | Package Qty | Bulk Qty |
|----------|-------------|-----------|-------------|----------|-----------|-------------|-----------|-------------|----------|
| FASC0614 | 3/8 x 1-3/4 | 15/32     | 100         | 1000     | FASCG0832 | 1/2 x 4*    | 19/32     | 20          | 160      |
| FASC0620 | 3/8 x 2-1/2 | 15/32     | 50          | 400      | FASC0840  | 1/2 x 5     | 19/32     | 25          | 100      |
| FASC0624 | 3/8 x 3     | 15/32     | 50          | 200      | FASC0848  | 1/2 x 6     | 19/32     | 25          | 100      |
| FASC0632 | 3/8 x 4     | 15/32     | 50          | 400      | FASC1040  | 5/8 x 5     | 3/4       | 20          | 80       |
| FASC0640 | 3/8 x 5     | 15/32     | 50          | 300      | FASC1048  | 5/8 x 6     | 3/4       | 10          | 80       |
| FASC0824 | 1/2 x 3     | 19/32     | 25          | 200      | FASC1240  | 3/4 x 5     | 7/8       | 5           | 40       |
| FASC0832 | 1/2 x 4     | 19/32     | 30          | 150      | *HDG      |             |           |             |          |

## WELD STUD CONCRETE ANCHORS

### PLAIN FINISH • MADE IN USA

Weld Stud Concrete Anchors are designed to weld to flat surfaces or to the inside or outside of an angle.

| Part #     | Size         | Package Qty |
|------------|--------------|-------------|
| FAWSC0833  | 1/2 x 4-1/8  | 50          |
| FAWSC0849  | 1/2 x 6-1/8  | 25          |
| FAWSC10525 | 5/8 x 6-9/16 | 100         |



Don't see an anchor you need listed here? We can get many other types of anchors.

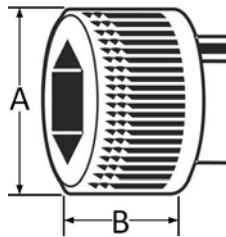
# SOCKET HEAD CAP SCREWS

## TECHNICAL INFORMATION

### ROCKWELL HARDNESS & TENSILE STRENGTHS

| Type & Size                  | Core Hardness Rockwell | Tensile Strengths |
|------------------------------|------------------------|-------------------|
| SOCKET HEAD (THRU 1/2")*     | C39-C45                | 180,000 PSI MIN   |
| SOCKET HEAD (5/8" & LARGER)* | C38-C45                | 170,000 PSI MIN   |
| FLAT HEAD*                   | C38-C44                | 145,000 PSI MIN   |
| BUTTON HEAD*                 | C38-C44                | 145,000 PSI MIN   |
| SOCKET SHOULDER*             | C32-C43                | 140,000 PSI MIN   |

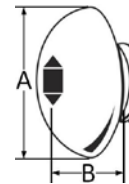
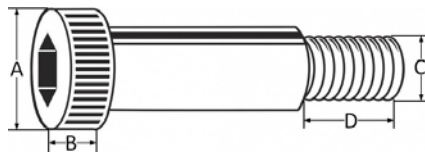
## DIMENSIONS



| Size  | Basic Thread Length | Socket Head Cap Screws |       |       |       |       | Socket Flat Head Cap Screws |       |       |       |
|-------|---------------------|------------------------|-------|-------|-------|-------|-----------------------------|-------|-------|-------|
|       |                     | Allen Wrench Size      | A     |       | B     |       | Allen Wrench Size           | A     |       | B     |
|       |                     |                        | MAX   | MIN   | MAX   | MIN   |                             | MAX   | MIN   | BASIC |
| #1    | 5/8                 | 1/16                   | 0.118 | 0.112 | 0.073 | 0.07  | -                           | -     | -     | -     |
| #2    | 5/8                 | 5/64                   | 0.14  | 0.134 | 0.086 | 0.083 | -                           | -     | -     | -     |
| #3    | 5/8                 | 5/64                   | 0.161 | 0.154 | 0.099 | 0.095 | -                           | -     | -     | -     |
| #4    | 3/4                 | 3/32                   | 0.183 | 0.176 | 0.112 | 0.108 | 1/16                        | 0.255 | 0.218 | 0.083 |
| #5    | 3/4                 | 3/32                   | 0.205 | 0.198 | 0.125 | 0.121 | 5/64                        | 0.281 | 0.24  | 0.09  |
| #6    | 3/4                 | 7/64                   | 0.226 | 0.218 | 0.138 | 0.134 | 5/64                        | 0.307 | 0.263 | 0.097 |
| #8    | 7/8                 | 9/64                   | 0.27  | 0.262 | 0.165 | 0.159 | 3/32                        | 0.359 | 0.311 | 0.112 |
| #10   | 7/8                 | 5/32                   | 0.312 | 0.303 | 0.19  | 0.185 | 1/8                         | 0.411 | 0.359 | 0.127 |
| #12   | 1                   | 5/32                   | 0.324 | 0.314 | 0.216 | 0.211 | 1/8                         | 0.45  | 0.41  | 0.135 |
| 1/4   | 1                   | 3/16                   | 0.375 | 0.365 | 0.25  | 0.244 | 5/32                        | 0.531 | 0.48  | 0.161 |
| 5/16  | 1 1/8               | 1/4                    | 0.469 | 0.457 | 0.312 | 0.306 | 3/16                        | 0.656 | 0.6   | 0.198 |
| 3/8   | 1 1/4               | 5/16                   | 0.562 | 0.55  | 0.375 | 0.368 | 7/32                        | 0.781 | 0.72  | 0.234 |
| 7/16  | 1 3/8               | 3/8                    | 0.656 | 0.642 | 0.438 | 0.43  | 1/4                         | 0.844 | 0.781 | 0.234 |
| 1/2   | 1 1/2               | 3/8                    | 0.75  | 0.735 | 0.5   | 0.492 | 5/16                        | 0.938 | 0.872 | 0.251 |
| 5/8   | 1 3/4               | 1/2                    | 0.938 | 0.921 | 0.625 | 0.616 | 3/8                         | 1.188 | 1.112 | 0.324 |
| 3/4   | 2                   | 5/8                    | 1.125 | 1.107 | 0.75  | 0.74  | 1/2                         | 1.438 | 1.355 | 0.396 |
| 7/8   | 2 1/4               | 3/4                    | 1.312 | 1.293 | 0.875 | 0.864 | 9/16                        | 1.688 | 1.604 | 0.468 |
| 1     | 2 1/2               | 3/4                    | 1.5   | 1.479 | 1     | 0.988 | 5/8                         | 1.938 | 1.841 | 0.54  |
| 1 1/8 | 3 1/8               | 7/8                    | 1.688 | 1.665 | 1.125 | 1.111 | -                           | -     | -     | -     |
| 1 1/4 | 3 3/16              | 7/8                    | 1.875 | 1.852 | 1.25  | 1.236 | -                           | -     | -     | -     |
| 1 1/2 | 3 3/4               | 1                      | 2.25  | 2.224 | 1.5   | 1.485 | -                           | -     | -     | -     |

# SOCKET HEAD CAP SCREWS

## DIMENSIONS



| Size | Socket Shoulder Screws |       |       |       |       |         |       | Socket Button Head Cap Screws |       |       |       |       |
|------|------------------------|-------|-------|-------|-------|---------|-------|-------------------------------|-------|-------|-------|-------|
|      | Allen Wrench Size      | A     |       | B     |       | C       | D     | Allen Wrench Size             | A     |       | B     |       |
|      |                        | MAX   | MIN   | MAX   | MIN   | NOMINAL | BASIC |                               | MAX   | MIN   | MAX   | MIN   |
| #6   | -                      | -     | -     | -     | -     | -       | -     | 5/64                          | 0.262 | 0.25  | 0.073 | 0.063 |
| #8   | -                      | -     | -     | -     | -     | -       | -     | 3/32                          | 0.312 | 0.298 | 0.087 | 0.077 |
| #10  | -                      | -     | -     | -     | -     | -       | -     | 1/8                           | 0.361 | 0.347 | 0.101 | 0.091 |
| 1/4  | 1/8                    | 0.375 | 0.357 | 0.188 | 0.177 | 10-24   | 3/8   | 5/32                          | 0.437 | 0.419 | 0.132 | 0.122 |
| 5/16 | 5/32                   | 0.438 | 0.419 | 0.219 | 0.209 | 1/4-20  | 7/16  | 3/16                          | 0.547 | 0.527 | 0.166 | 0.152 |
| 3/8  | 3/16                   | 0.562 | 0.543 | 0.25  | 0.24  | 5/16-18 | 1/2   | 7/32                          | 0.656 | 0.636 | 0.199 | 0.185 |
| 1/2  | 1/4                    | 0.75  | 0.729 | 0.312 | 0.302 | 3/8-16  | 5/8   | 5/16                          | 0.875 | 0.851 | 0.265 | 0.245 |
| 5/8  | 5/16                   | 0.875 | 0.853 | 0.375 | 0.365 | 1/2-13  | 3/4   | 3/8                           | 1     | 0.97  | 0.331 | 0.311 |
| 3/4  | 3/8                    | 1     | 0.977 | 0.5   | 0.49  | 5/8-11  | 7/8   | -                             | -     | -     | -     | -     |
| 1    | 1/2                    | 1.312 | 1.287 | 0.625 | 0.61  | 3/4-10  | 1     | -                             | -     | -     | -     | -     |

## COARSE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED

Socket Head Cap Screws provide the advantages of a greater tensile strength than grade 8 hex cap screws and a smaller area needed around the head for wrenching.



| Part #     | Size          | Package Qty | Bulk Qty | Part #     | Size           | Package Qty | Bulk Qty |
|------------|---------------|-------------|----------|------------|----------------|-------------|----------|
| FSHCS00604 | #6-32 x 1/2   | 100         | 2500     | FSHCS00812 | #8-32 x 1 1/2  | 100         | 2500     |
| FSHCS00605 | #6-32 x 5/8   | 100         | 2500     | FSHCS01003 | #10-24 x 3/8   | 100         | 2500     |
| FSHCS00606 | #6-32 x 3/4   | 100         | 2500     | FSHCS01004 | #10-24 x 1/2   | 100         | 2500     |
| FSHCS00608 | #6-32 x 1     | 100         | 2500     | FSHCS01005 | #10-24 x 5/8   | 100         | 2500     |
| FSHCS00803 | #8-32 x 3/8   | 100         | 2500     | FSHCS01006 | #10-24 x 3/4   | 100         | 2500     |
| FSHCS00804 | #8-32 x 1/2   | 100         | 2500     | FSHCS01008 | #10-24 x 1     | 100         | 2500     |
| FSHCS00805 | #8-32 x 5/8   | 100         | 2500     | FSHCS01010 | #10-24 x 1 1/4 | 100         | 2000     |
| FSHCS00806 | #8-32 x 3/4   | 100         | 2500     | FSHCS01012 | #10-24 x 1 1/2 | 100         | 2000     |
| FSHCS00808 | #8-32 x 1     | 100         | 2500     | FSHCS01014 | #10-24 x 1 3/4 | 100         | 1500     |
| FSHCS00809 | #8-32 x 1 1/8 | 100         | 2500     | FSHCS01016 | #10-24 x 2     | 100         | 1500     |
| FSHCS00810 | #8-32 x 1 1/4 | 100         | 2500     | FSHCS01018 | #10-24 x 2 1/4 | 100         | 1000     |

## COARSE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED

| Part #     | Size            | Package Qty | Bulk Qty | Part #    | Size            | Package Qty | Bulk Qty |
|------------|-----------------|-------------|----------|-----------|-----------------|-------------|----------|
| FSHCS01020 | #10-24 x 2 1/2  | 100         | 1000     | FSHCS0618 | 3/8-16 x 2 1/4  | 50          | 325      |
| FSHCS01028 | #10-24 x 3 1/2  | 100         | 1000     | FSHCS0620 | 3/8-16 x 2 1/2  | 50          | 275      |
| FSHCS01208 | #12-24 x 1      | 100         | 1500     | FSHCS0622 | 3/8-16 x 2 3/4  | 50          | 250      |
| FSHCS01212 | #12-24 x 1 1/2  | 100         | 1500     | FSHCS0624 | 3/8-16 x 3      | 50          | 225      |
| FSHCS0403  | 1/4-20 x 3/8    | 100         | 2500     | FSHCS0626 | 3/8-16 x 3 1/4  | 50          | 200      |
| FSHCS0404  | 1/4-20 x 1/2    | 100         | 2500     | FSHCS0628 | 3/8-16 x 3 1/2  | 50          | 175      |
| FSHCS0405  | 1/4-20 x 5/8    | 100         | 2000     | FSHCS0632 | 3/8-16 x 4      | 50          | 175      |
| FSHCS0406  | 1/4-20 x 3/4    | 100         | 1500     | FSHCS0636 | 3/8-16 x 4 1/2  | 50          | 175      |
| FSHCS0408  | 1/4-20 x 1      | 100         | 1500     | FSHCS0640 | 3/8-16 x 5      | 50          | 150      |
| FSHCS0410  | 1/4-20 x 1 1/4  | 100         | 1300     | FSHCS0708 | 7/16-14 x 1     | 50          | 400      |
| FSHCS0412  | 1/4-20 x 1 1/2  | 100         | 1000     | FSHCS0710 | 7/16-14 x 1 1/4 | 50          | 300      |
| FSHCS0414  | 1/4-20 x 1 3/4  | 100         | 1000     | FSHCS0712 | 7/16-14 x 1 1/2 | 50          | 300      |
| FSHCS0416  | 1/4-20 x 2      | 100         | 750      | FSHCS0714 | 7/16-14 x 1 3/4 | 50          | 250      |
| FSHCS0418  | 1/4-20 x 2 1/4  | 100         | 750      | FSHCS0716 | 7/16-14 x 2     | 50          | 250      |
| FSHCS0420  | 1/4-20 x 2 1/2  | 100         | 700      | FSHCS0720 | 7/16-14 x 2 1/2 | 50          | 200      |
| FSHCS0424  | 1/4-20 x 3      | 100         | 500      | FSHCS0724 | 7/16-14 x 3     | 25          | 150      |
| FSHCS0428  | 1/4-20 x 3 1/2  | 50          | 500      | FSHCS0804 | 1/2-13 x 1/2    | 50          | 350      |
| FSHCS0432  | 1/4-20 x 4      | 100         | 350      | FSHCS0806 | 1/2-13 x 3/4    | 50          | 300      |
| FSHCS0436  | 1/4-20 x 4 1/2  | 50          | 350      | FSHCS0808 | 1/2-13 x 1      | 50          | 275      |
| FSHCS0503  | 5/16-18 x 3/8   | 100         | 1250     | FSHCS0810 | 1/2-13 x 1 1/4  | 50          | 250      |
| FSHCS0504  | 5/16-18 x 1/2   | 100         | 1250     | FSHCS0812 | 1/2-13 x 1 1/2  | 50          | 250      |
| FSHCS0505  | 5/16-18 x 5/8   | 100         | 1250     | FSHCS0814 | 1/2-13 x 1 3/4  | 50          | 200      |
| FSHCS0506  | 5/16-18 x 3/4   | 100         | 1000     | FSHCS0816 | 1/2-13 x 2      | 50          | 175      |
| FSHCS0507  | 5/16-18 x 7/8   | 100         | 1000     | FSHCS0818 | 1/2-13 x 2 1/4  | 50          | 150      |
| FSHCS0508  | 5/16-18 x 1     | 100         | 900      | FSHCS0820 | 1/2-13 x 2 1/2  | 50          | 150      |
| FSHCS0510  | 5/16-18 x 1 1/4 | 100         | 800      | FSHCS0822 | 1/2-13 x 2 3/4  | 50          | 150      |
| FSHCS0512  | 5/16-18 x 1 1/2 | 100         | 700      | FSHCS0824 | 1/2-13 x 3      | 50          | 130      |
| FSHCS0514  | 5/16-18 x 1 3/4 | 100         | 500      | FSHCS0828 | 1/2-13 x 3 1/2  | 25          | 110      |
| FSHCS0516  | 5/16-18 x 2     | 100         | 500      | FSHCS0832 | 1/2-13 x 4      | 25          | 100      |
| FSHCS0518  | 5/16-18 x 2 1/4 | 100         | 450      | FSHCS0836 | 1/2-13 x 4 1/2  | 25          | 100      |
| FSHCS0520  | 5/16-18 x 2 1/2 | 100         | 400      | FSHCS0840 | 1/2-13 x 5      | 25          | 75       |
| FSHCS0524  | 5/16-18 x 3     | 100         | 350      | FSHCS0844 | 1/2-13 x 5 1/2  | 25          | 75       |
| FSHCS0528  | 5/16-18 x 3 1/2 | 50          | 300      | FSHCS0848 | 1/2-13 x 6      | 25          | 70       |
| FSHCS0532  | 5/16-18 x 4     | 50          | 250      | FSHCS0856 | 1/2-13 x 7      | 10          | 75       |
| FSHCS0604  | 3/8-16 x 1/2    | 100         | 750      | FSHCS1010 | 5/8-11 x 1 1/4  | 25          | 175      |
| FSHCS0606  | 3/8-16 x 3/4    | 100         | 700      | FSHCS1012 | 5/8-11 x 1 1/2  | 25          | 125      |
| FSHCS0608  | 3/8-16 x 1      | 100         | 600      | FSHCS1014 | 5/8-11 x 1 3/4  | 25          | 150      |
| FSHCS0610  | 3/8-16 x 1 1/4  | 100         | 500      | FSHCS1016 | 5/8-11 x 2      | 25          | 110      |
| FSHCS0612  | 3/8-16 x 1 1/2  | 100         | 450      | FSHCS1018 | 5/8-11 x 2 1/4  | 25          | 100      |
| FSHCS0614  | 3/8-16 x 1 3/4  | 100         | 400      | FSHCS1020 | 5/8-11 x 2 1/2  | 25          | 100      |
| FSHCS0616  | 3/8-16 x 2      | 100         | 300      | FSHCS1024 | 5/8-11 x 3      | 25          | 75       |

# SOCKET HEAD CAP SCREWS

## COARSE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED

| Part #    | Size           | Package Qty | Bulk Qty | Part #     | Size         | Package Qty | Bulk Qty |
|-----------|----------------|-------------|----------|------------|--------------|-------------|----------|
| FSHCS1028 | 5/8-11 x 3 1/2 | 25          | 75       | FSHCS1232  | 3/4-10 x 4   | 20          | 40       |
| FSHCS1032 | 5/8-11 x 4     | 25          | 75       | FSHCS1248  | 3/4-10 x 6   | 10          | 35       |
| FSHCS1036 | 5/8-11 x 4 1/2 | 25          | 50       | FSHCS1416  | 7/8-9 x 2    | 15          | 60       |
| FSHCS1040 | 5/8-11 x 5     | 25          | 50       | FSHCS1424  | 7/8-9 x 3    | 10          | 40       |
| FSHCS1048 | 5/8-11 x 6     | 20          | 50       | FSHCS1624  | 1-8 x 3      | 10          | 30       |
| FSHCS1212 | 3/4-10 x 1 1/2 | 20          | 100      | FSHCS1632  | 1-8 x 4      | 10          | 25       |
| FSHCS1216 | 3/4-10 x 2     | 20          | 75       | FSHCS1688  | 1-8 x 11     | 1           | 10       |
| FSHCS1220 | 3/4-10 x 2 1/2 | 20          | 70       | FSHCS24112 | 1 1/2-6 x 14 | 1           | 4        |
| FSHCS1224 | 3/4-10 x 3     | 20          | 55       |            |              |             |          |



## FINE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED

| Part #      | Size            | Package Qty | Bulk Qty | Part #     | Size            | Package Qty | Bulk Qty |
|-------------|-----------------|-------------|----------|------------|-----------------|-------------|----------|
| FSHCSF01003 | #10-32 x 3/8    | 100         | 2500     | FSHCSF0512 | 5/16-24 x 1 1/2 | 100         | 750      |
| FSHCSF01004 | #10-32 x 1/2    | 100         | 2500     | FSHCSF0604 | 3/8-24 x 1/2    | 100         | 750      |
| FSHCSF01005 | #10-32 x 5/8    | 100         | 2500     | FSHCSF0606 | 3/8-24 x 3/4    | 100         | 600      |
| FSHCSF01006 | #10-32 x 3/4    | 100         | 2500     | FSHCSF0608 | 3/8-24 x 1      | 100         | 500      |
| FSHCSF01008 | #10-32 x 1      | 100         | 2500     | FSHCSF0610 | 3/8-24 x 1 1/4  | 100         | 500      |
| FSHCSF01010 | #10-32 x 1 1/4  | 100         | 2000     | FSHCSF0612 | 3/8-24 x 1 1/2  | 100         | 450      |
| FSHCSF01012 | #10-32 x 1 1/2  | 100         | 2000     | FSHCSF0616 | 3/8-24 x 2      | 100         | 400      |
| FSHCSF01014 | #10-32 x 1 3/4  | 100         | 1500     | FSHCSF0620 | 3/8-24 x 2 1/2  | 50          | 250      |
| FSHCSF01016 | #10-32 x 2      | 100         | 1500     | FSHCSF0708 | 7/16-20 x 1     | 50          | 400      |
| FSHCSF0404  | 1/4-28 x 1/2    | 100         | 2500     | FSHCSF0710 | 7/16-20 x 1 1/4 | 50          | 300      |
| FSHCSF0405  | 1/4-28 x 5/8    | 100         | 2000     | FSHCSF0712 | 7/16-20 x 1 1/2 | 50          | 300      |
| FSHCSF0406  | 1/4-28 x 3/4    | 100         | 1500     | FSHCSF0716 | 7/16-20 x 2     | 50          | 250      |
| FSHCSF0408  | 1/4-28 x 1      | 100         | 1500     | FSHCSF0720 | 7/16-20 x 2 1/2 | 50          | 200      |
| FSHCSF0410  | 1/4-28 x 1 1/4  | 100         | 1250     | FSHCSF0724 | 7/16-20 x 3     | 50          | 150      |
| FSHCSF0412  | 1/4-28 x 1 1/2  | 100         | 1000     | FSHCSF0808 | 1/2-20 x 1      | 50          | 250      |
| FSHCSF0416  | 1/4-28 x 2      | 100         | 750      | FSHCSF0810 | 1/2-20 x 1 1/4  | 50          | 250      |
| FSHCSF0504  | 5/16-24 x 1/2   | 100         | 1250     | FSHCSF0812 | 1/2-20 x 1 1/2  | 50          | 250      |
| FSHCSF0506  | 5/16-24 x 3/4   | 100         | 1000     | FSHCSF0816 | 1/2-20 x 2      | 50          | 200      |
| FSHCSF0507  | 5/16-24 x 7/8   | 100         | 1000     | FSHCSF0820 | 1/2-20 x 2 1/2  | 50          | 175      |
| FSHCSF0508  | 5/16-24 x 1     | 100         | 1000     | FSHCSF0824 | 1/2-20 x 3      | 50          | 130      |
| FSHCSF0510  | 5/16-24 x 1 1/4 | 100         | 800      | FSHCSF1012 | 5/8-18 x 1 1/2  | 25          | 125      |

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED



| Part #       | Size            | Package Qty | Bulk Qty | Part #      | Size            | Package Qty | Bulk Qty |
|--------------|-----------------|-------------|----------|-------------|-----------------|-------------|----------|
| FSSSHCS01004 | #10-24 x 1/2    | 100         | 2500     | FSSSHCS0512 | 5/16-18 x 1 1/2 | 100         | 700      |
| FSSSHCS01006 | #10-24 x 3/4    | 100         | 2500     | FSSSHCS0516 | 5/16-18 x 2     | 100         | 500      |
| FSSSHCS01008 | #10-24 x 1      | 100         | 2500     | FSSSHCS0606 | 3/8-16 x 3/4    | 100         | 700      |
| FSSSHCS01010 | #10-24 x 1 1/4  | 100         | 2000     | FSSSHCS0607 | 3/8-16 x 7/8    | 100         | -        |
| FSSSHCS01012 | #10-24 x 1 1/2  | 100         | 2000     | FSSSHCS0608 | 3/8-16 x 1      | 100         | 600      |
| FSSSHCS0404  | 1/4-20 x 1/2    | 100         | 2500     | FSSSHCS0610 | 3/8-16 x 1 1/4  | 100         | 500      |
| FSSSHCS0406  | 1/4-20 x 3/4    | 100         | 1500     | FSSSHCS0612 | 3/8-16 x 1 1/2  | 50          | 500      |
| FSSSHCS0407  | 1/4-20 x 7/8    | 100         | 1500     | FSSSHCS0616 | 3/8-16 x 2      | 50          | 350      |
| FSSSHCS0408  | 1/4-20 x 1      | 100         | 1500     | FSSSHCS0620 | 3/8-16 x 2 1/2  | 25          | 250      |
| FSSSHCS0410  | 1/4-20 x 1 1/4  | 100         | 1250     | FSSSHCS0806 | 1/2-13 x 3/4    | 50          | 300      |
| FSSSHCS0412  | 1/4-20 x 1 1/2  | 100         | 1000     | FSSSHCS0810 | 1/2-13 x 1 1/4  | 25          | 250      |
| FSSSHCS0506  | 5/16-18 x 3/4   | 100         | 1300     | FSSSHCS0812 | 1/2-13 x 1 1/2  | 25          | 250      |
| FSSSHCS0507  | 5/16-18 x 7/8   | 100         | 1000     | FSSSHCS0816 | 1/2-13 x 2      | 25          | 175      |
| FSSSHCS0508  | 5/16-18 x 1     | 100         | 900      | FSSSHCS0820 | 1/2-13 x 2 1/2  | 25          | 150      |
| FSSSHCS0510  | 5/16-18 x 1 1/4 | 100         | 800      | FSSSHCS0824 | 1/2-13 x 3      | 25          | 130      |

## LOW HEAD • COARSE THREAD • PLAIN FINISH • IMPORTED

Low Head Socket Head Cap Screws are designed for use where there is limited clearance for the head.

| Part #     | Size           | Package Qty | Bulk Qty |
|------------|----------------|-------------|----------|
| FSHCSLO404 | 1/4-20 x 1/2   | 100         | 2500     |
| FSHCSLO406 | 1/4-20 x 3/4   | 100         | 1500     |
| FSHCSLO505 | 5/16-18 x 5/8  | 100         | 1250     |
| FSHCSLO506 | 5/16-18 x 3/4  | 100         | 1000     |
| FSHCSLO508 | 5/16-18 x 1    | 100         | 1000     |
| FSHCSLO606 | 3/8-16 x 3/4   | 100         | 600      |
| FSHCSLO608 | 3/8-16 x 1     | 100         | 500      |
| FSHCSLO610 | 3/8-16 x 1 1/4 | 100         | 500      |
| FSHCSLO612 | 3/8-16 x 1 1/2 | 100         | 400      |
| FSHCSLO812 | 1/2-13 x 1 1/2 | 50          | 250      |





# SOCKET HEAD CAP SCREWS, SOCKET FLAT HEAD CAP SCREWS

## LOW HEAD • FINE THREAD • PLAIN FINISH • IMPORTED

| Part #       | Size         | Package Qty | Bulk Qty |
|--------------|--------------|-------------|----------|
| FSHCSLF01006 | #10-32 x 3/4 | 100         | 2500     |
| FSHCSLF0405  | 1/4-28 x 5/8 | 100         | 2500     |



## SOCKET FLAT HEAD CAP SCREWS

### COARSE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED



| Part #      | Size           | Package Qty | Bulk Qty | Part #    | Size            | Package Qty | Bulk Qty |
|-------------|----------------|-------------|----------|-----------|-----------------|-------------|----------|
| FSFCS00604  | #6-32 x 1/2    | 100         | 2500     | FSFCS0412 | 1/4-20 x 1 1/2  | 100         | 1500     |
| FSFCS008025 | #8-32 x 5/16   | 100         | 2500     | FSFCS0414 | 1/4-20 x 1 3/4  | 100         | 1000     |
| FSFCS00803  | #8-32 x 3/8    | 100         | 2500     | FSFCS0416 | 1/4-20 x 2      | 100         | 1000     |
| FSFCS00804  | #8-32 x 1/2    | 100         | 2500     | FSFCS0420 | 1/4-20 x 2 1/2  | 100         | 1000     |
| FSFCS00805  | #8-32 x 5/8    | 100         | 2500     | FSFCS0424 | 1/4-20 x 3      | 100         | 700      |
| FSFCS00806  | #8-32 x 3/4    | 100         | 2500     | FSFCS0504 | 5/16-18 x 1/2   | 100         | 1500     |
| FSFCS00808  | #8-32 x 1      | 100         | 2500     | FSFCS0505 | 5/16-18 x 5/8   | 100         | 1500     |
| FSFCS01003  | #10-24 x 3/8   | 100         | 2500     | FSFCS0506 | 5/16-18 x 3/4   | 100         | 1500     |
| FSFCS01004  | #10-24 x 1/2   | 100         | 2500     | FSFCS0508 | 5/16-18 x 1     | 100         | 1000     |
| FSFCS01005  | #10-24 x 5/8   | 100         | 2500     | FSFCS0510 | 5/16-18 x 1 1/4 | 100         | 1000     |
| FSFCS01006  | #10-24 x 3/4   | 100         | 2500     | FSFCS0512 | 5/16-18 x 1 1/2 | 100         | 800      |
| FSFCS01008  | #10-24 x 1     | 100         | 2500     | FSFCS0516 | 5/16-18 x 2     | 100         | 500      |
| FSFCS01010  | #10-24 x 1 1/4 | 100         | 2500     | FSFCS0520 | 5/16-18 x 2 1/2 | 100         | 450      |
| FSFCS01012  | #10-24 x 1 1/2 | 100         | 2500     | FSFCS0522 | 5/16-18 x 2 3/4 | 100         | 400      |
| FSFCS01206  | #12-24 x 3/4   | 100         | 2500     | FSFCS0524 | 5/16-18 x 3     | 100         | 400      |
| FSFCS01208  | #12-24 x 1     | 100         | 2500     | FSFCS0532 | 5/16-18 x 4     | 50          | 300      |
| FSFCS0404   | 1/4-20 x 1/2   | 100         | 2500     | FSFCS0605 | 3/8-16 x 5/8    | 100         | -        |
| FSFCS0405   | 1/4-20 x 5/8   | 100         | 2500     | FSFCS0606 | 3/8-16 x 3/4    | 100         | 800      |
| FSFCS0406   | 1/4-20 x 3/4   | 100         | 2500     | FSFCS0608 | 3/8-16 x 1      | 100         | 700      |
| FSFCSZ0406  | 1/4-20 x 3/4*  | 100         | 2500     | FSFCS0610 | 3/8-16 x 1 1/4  | 100         | 500      |
| FSFCS0407   | 1/4-20 x 7/8   | 100         | 2000     | FSFCS0612 | 3/8-16 x 1 1/2  | 100         | 500      |
| FSFCS0408   | 1/4-20 x 1     | 100         | 2000     | FSFCS0616 | 3/8-16 x 2      | 100         | 400      |
| FSFCS0410   | 1/4-20 x 1 1/4 | 100         | 1500     |           |                 |             |          |

\*Zinc & Bake

## COARSE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED

| Part #    | Size            | Package Qty | Bulk Qty | Part #       | Size           | Package Qty | Bulk Qty |
|-----------|-----------------|-------------|----------|--------------|----------------|-------------|----------|
| FSFCS0620 | 3/8-16 x 2 1/2  | 50          | 300      | FSFCS0826    | 1/2-13 x 3 1/4 | 25          | 100      |
| FSFCS0624 | 3/8-16 x 3      | 50          | 250      | FSFCS0832    | 1/2-13 x 4     | 25          | 75       |
| FSFCS0626 | 3/8-16 x 3 1/4  | 50          | 200      | FSFCS1012    | 5/8-11 x 1 1/2 | 25          | 150      |
| FSFCS0628 | 3/8-16 x 3 1/2  | 50          | 250      | FSFCS1014    | 5/8-11 x 1 3/4 | 25          | 150      |
| FSFCS0632 | 3/8-16 x 4      | 50          | 250      | FSFCS1016    | 5/8-11 x 2     | 25          | 150      |
| FSFCS0708 | 7/16-14 x 1     | 50          | 500      | FSFCS1018    | 5/8-11 x 2 1/4 | 25          | 100      |
| FSFCS0712 | 7/16-14 x 1 1/2 | 50          | 400      | FSFCS1020    | 5/8-11 x 2 1/2 | 25          | 100      |
| FSFCS0716 | 7/16-14 x 2     | 50          | 300      | FSFCS1024    | 5/8-11 x 3     | 25          | 100      |
| FSFCS0808 | 1/2-13 x 1      | 50          | 400      | FSFCS1028    | 5/8-11 x 3 1/2 | 25          | 75       |
| FSFCS0810 | 1/2-13 x 1 1/4  | 50          | 300      | FSFCS1212    | 3/4-10 x 1 1/2 | 20          | 100      |
| FSFCS0812 | 1/2-13 x 1 1/2  | 50          | 300      | FSFCS1216    | 3/4-10 x 2     | 20          | 75       |
| FSFCS0814 | 1/2-13 x 1 3/4  | 50          | 250      | FSFCS1218    | 3/4-10 x 2 1/4 | 25          | 75       |
| FSFCS0816 | 1/2-13 x 2      | 50          | 250      | FSFCS1224    | 3/4-10 x 3     | 20          | 75       |
| FSFCS0820 | 1/2-13 x 2 1/2  | 50          | 200      | FSFCS1232    | 3/4-10 x 4     | 20          | 50       |
| FSFCS0824 | 1/2-13 x 3      | 50          | 150      | *Zinc & Bake |                |             |          |

## FINE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED



| Part #       | Size           | Package Qty | Bulk Qty | Part #     | Size            | Package Qty | Bulk Qty |
|--------------|----------------|-------------|----------|------------|-----------------|-------------|----------|
| FSFCSF01003  | #10-32 x 3/8   | 50          | 2500     | FSFCSF0508 | 5/16-24 x 1     | 100         | 1000     |
| FSFCSF010035 | #10-32 x 7/16  | 100         | 2500     | FSFCSF0510 | 5/16-24 x 1 1/4 | 100         | 1000     |
| FSFCSF01004  | #10-32 x 1/2   | 100         | 2500     | FSFCSF0606 | 3/8-24 x 3/4    | 100         | 800      |
| FSFCSF01005  | #10-32 x 5/8   | 100         | 2500     | FSFCSF0608 | 3/8-24 x 1      | 100         | 700      |
| FSFCSF01006  | #10-32 x 3/4   | 100         | 2500     | FSFCSF0612 | 3/8-24 x 1 1/2  | 100         | 500      |
| FSFCSF01008  | #10-32 x 1     | 100         | 2500     | FSFCSF0616 | 3/8-24 x 2      | 100         | 400      |
| FSFCSF01010  | #10-32 x 1 1/4 | 100         | 2500     | FSFCSF0812 | 1/2-20 x 1 1/2  | 100         | 300      |
| FSFCSF0404   | 1/4-28 x 1/2   | 100         | 2500     | FSFCSF0816 | 1/2-20 x 2      | 50          | 250      |
| FSFCSF0405   | 1/4-28 x 5/8   | 100         | 2500     | FSFCSF0820 | 1/2-20 x 2 1/2  | 50          | 200      |
| FSFCSF0406   | 1/4-28 x 3/4   | 100         | 2500     | FSFCSF1016 | 5/8-18 x 2      | 25          | 150      |
| FSFCSF0506   | 5/16-24 x 3/4  | 100         | 1500     |            |                 |             |          |

# SOCKET FLAT HEAD CAP SCREWS, SOCKET BUTTON HEAD CAP SCREWS

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED



| Part #      | Size           | Package Qty | Bulk Qty | Part #     | Size            | Package Qty | Bulk Qty |
|-------------|----------------|-------------|----------|------------|-----------------|-------------|----------|
| FSSSFCS1004 | #10-24 x 1/2   | 100         | 2500     | FSSSFCS506 | 5/16-18 x 3/4   | 100         | 1500     |
| FSSSFCS1006 | #10-24 x 3/4   | 100         | 2500     | FSSSFCS508 | 5/16-18 x 1     | 100         | 1000     |
| FSSSFCS1008 | #10-24 x 1     | 100         | 2500     | FSSSFCS510 | 5/16-18 x 1 1/4 | 100         | 1000     |
| FSSSFCS1010 | #10-24 x 1 1/4 | 100         | 2500     | FSSSFCS606 | 3/8-16 x 3/4    | 100         | -        |
| FSSSFCS1012 | #10-24 x 1 1/2 | 100         | 2500     | FSSSFCS608 | 3/8-16 x 1      | 100         | 700      |
| FSSSFCS404  | 1/4-20 x 1/2   | 100         | 2500     | FSSSFCS610 | 3/8-16 x 1 1/4  | 50          | -        |
| FSSSFCS406  | 1/4-20 x 3/4   | 100         | 2500     | FSSSFCS612 | 3/8-16 x 1 1/2  | 100         | 500      |
| FSSSFCS408  | 1/4-20 x 1     | 100         | 2000     |            |                 |             |          |

## SOCKET BUTTON HEAD CAP SCREWS

### COARSE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED

Socket Button Head Cap Screws are designed for use when a wider bearing surface is needed or to provide a more finished appearance.



| Part #     | Size            | Package Qty | Bulk Qty | Part #    | Size            | Package Qty | Bulk Qty |
|------------|-----------------|-------------|----------|-----------|-----------------|-------------|----------|
| FSBCS00804 | #8-32 x 1/2     | 100         | 2500     | FSBCS0512 | 5/16-18 x 1 1/2 | 100         | 800      |
| FSBCS00805 | #8-32 x 5/8     | 100         | 2500     | FSBCS0516 | 5/16-18 x 2     | 100         | 700      |
| FSBCS01003 | #10-24 x 3/8    | 100         | 2500     | FSBCS0524 | 5/16-18 x 3     | 100         | 400      |
| FSBCS01004 | #10-24 x 1/2    | 100         | -        | FSBCS0528 | 5/16-18 x 3 1/2 | 100         | 400      |
| FSBCS01005 | #10-24 x 5/8    | 100         | -        | FSBCS0606 | 3/8-16 x 3/4    | 100         | 1000     |
| FSBCS01006 | #10-24 x 3/4    | 100         | -        | FSBCS0608 | 3/8-16 x 1      | 100         | 800      |
| FSBCS01008 | #10-24 x 1      | 100         | -        | FSBCS0610 | 3/8-16 x 1 1/4  | 100         | 700      |
| FSBCS01010 | #10-24 x 1 1/4  | 100         | 2500     | FSBCS0612 | 3/8-16 x 1 1/2  | 100         | 500      |
| FSBCS01016 | #10-24 x 2      | 100         | 1500     | FSBCS0614 | 3/8-16 x 1 3/4  | 100         | -        |
| FSBCS0404  | 1/4-20 x 1/2    | 100         | 2500     | FSBCS0616 | 3/8-16 x 2      | 100         | 500      |
| FSBCS0405  | 1/4-20 x 5/8    | 100         | 2500     | FSBCS0618 | 3/8-16 x 2 1/4  | 50          | 400      |
| FSBCS0406  | 1/4-20 x 3/4    | 100         | 2500     | FSBCS0624 | 3/8-16 x 3      | 50          | 300      |
| FSBCS0408  | 1/4-20 x 1      | 100         | 2000     | FSBCS0626 | 3/8-16 x 3 1/4  | 50          | 250      |
| FSBCS0412  | 1/4-20 x 1 1/2  | 100         | 1500     | FSBCS0810 | 1/2-13 x 1 1/4  | 50          | 300      |
| FSBCS0416  | 1/4-20 x 2      | 100         | 1000     | FSBCS0812 | 1/2-13 x 1 1/2  | 50          | 300      |
| FSBCS0504  | 5/16-18 x 1/2   | 100         | 2000     | FSBCS0816 | 1/2-13 x 2      | 50          | 200      |
| FSBCS0505  | 5/16-18 x 5/8   | 100         | 1500     | FSBCS1010 | 5/8-11 x 1 1/4  | 25          | -        |
| FSBCS0506  | 5/16-18 x 3/4   | 100         | 1500     | FSBCS1012 | 5/8-11 x 1 1/2  | 25          | 150      |
| FSBCS0508  | 5/16-18 x 1     | 100         | 1000     | FSBCS1016 | 5/8-11 x 2      | 25          | 150      |
| FSBCS0510  | 5/16-18 x 1 1/4 | 100         | 1000     |           |                 |             |          |

## FINE THREAD • PLAIN FINISH • IMPORTED



| Part #      | Size          | Package Qty | Bulk Qty | Part #     | Size            | Package Qty | Bulk Qty |
|-------------|---------------|-------------|----------|------------|-----------------|-------------|----------|
| FSBCSF01003 | #10-32 x 3/8  | 100         | 2500     | FSBCSF0506 | 5/16-24 x 3/4   | 100         | 1500     |
| FSBCSF01004 | #10-32 x 1/2  | 100         | 2500     | FSBCSF0507 | 5/16-24 x 7/8   | 100         | 1500     |
| FSBCSF01009 | #10-32 x 9/16 | -           | 2500     | FSBCSF0508 | 5/16-24 x 1     | 100         | 1000     |
| FSBCSF01005 | #10-32 x 5/8  | 100         | 2500     | FSBCSF0512 | 5/16-24 x 1 1/2 | 100         | 800      |
| FSBCSF01006 | #10-32 x 3/4  | 100         | 2500     | FSBCSF0605 | 3/8-24 x 5/8    | 100         | 1300     |
| FSBCSF0404  | 1/4-28 x 1/2  | 100         | 2500     | FSBCSF0606 | 3/8-24 x 3/4    | 100         | 1000     |
| FSBCSF0406  | 1/4-28 x 3/4  | 100         | -        | FSBCSF0608 | 3/8-24 x 1      | 100         | 800      |
| FSBCSF0408  | 1/4-28 x 1    | 100         | 2000     | FSBCSF0612 | 3/8-24 x 1 1/2  | 100         | 500      |
| FSBCSF0504  | 5/16-24 x 1/2 | 100         | 2000     | FSBCSF0808 | 1/2-20 x 1      | 100         | 400      |
| FSBCSF0505  | 5/16-24 x 5/8 | 100         | 1500     | FSBCSF0812 | 1/2-20 x 1 1/2  | 100         | 300      |

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED



| Part #       | Size           | Package Qty | Bulk Qty | Part #      | Size            | Package Qty | Bulk Qty |
|--------------|----------------|-------------|----------|-------------|-----------------|-------------|----------|
| FSSSBCS00604 | #6-32 x 1/2    | 100         | -        | FSSSBCS0506 | 5/16-18 x 3/4   | 100         | 1500     |
| FSSSBCS01004 | #10-24 x 1/2   | 100         | 2500     | FSSSBCS0508 | 5/16-18 x 1     | 100         | -        |
| FSSSBCS01006 | #10-24 x 3/4   | 100         | 2500     | FSSSBCS0510 | 5/16-18 x 1 1/4 | 100         | -        |
| FSSSBCS01008 | #10-24 x 1     | 100         | 2500     | FSSSBCS0512 | 5/16-18 x 1 1/2 | 100         | 800      |
| FSSSBCS01012 | #10-24 x 1 1/2 | 100         | 2500     | FSSSBCS0522 | 5/16-18 x 2 3/4 | 100         | 400      |
| FSSSBCS0403  | 1/4-20 x 3/8   | 100         | 2500     | FSSSBCS0524 | 5/16-18 x 3     | 100         | 500      |
| FSSSBCS0404  | 1/4-20 x 1/2   | 100         | 2500     | FSSSBCS0604 | 3/8-16 x 1/2    | 100         | 1500     |
| FSSSBCS0405  | 1/4-20 x 5/8   | 100         | 2500     | FSSSBCS0606 | 3/8-16 x 3/4    | 100         | 1000     |
| FSSSBCS0406  | 1/4-20 x 3/4   | 100         | 2500     | FSSSBCS0608 | 3/8-16 x 1      | 100         | 800      |
| FSSSBCS0408  | 1/4-20 x 1     | 100         | 2000     | FSSSBCS0610 | 3/8-16 x 1 1/4  | 100         | 700      |
| FSSSBCS0412  | 1/4-20 x 1 1/2 | 100         | 1500     | FSSSBCS0612 | 3/8-16 x 1 1/2  | 100         | 500      |
| FSSSBCS0504  | 5/16-18 x 1/2  | 100         | 2000     | FSSSBCS0622 | 3/8-16 x 2 3/4  | 50          | -        |

# SOCKET BUTTON HEAD CAP SCREWS, SOCKET SHOULDER SCREWS

## 18-8 STAINLESS STEEL • FINE THREAD • IMPORTED

| Part #        | Size         | Package Qty | Bulk Qty |
|---------------|--------------|-------------|----------|
| FSSSBCSF01002 | #10-32 x 1/4 | 100         | -        |
| FSSSBCSF01004 | #10-32 x 1/2 | 100         | -        |
| FSSSBCSF01005 | #10-32 x 5/8 | 100         | -        |
| FSSSBCSF01006 | #10-32 x 3/4 | 100         | -        |
| FSSSBCSF01008 | #10-32 x 1   | 100         | 2500     |



## SOCKET SHOULDER SCREWS

### COARSE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED

Socket Shoulder Screws are designed for use in rotating or sliding applications. For example a bearing can be securely held in place on the shoulder and yet can rotate freely.



| Part #     | Size                  | Package Qty | Bulk Qty | Part #     | Size                  | Package Qty | Bulk Qty |
|------------|-----------------------|-------------|----------|------------|-----------------------|-------------|----------|
| FSHCSS0402 | 1/4(10-24) x 1/4      | 25          | 500      | FSHCSS0612 | 3/8 (5/16-18) x 1 1/2 | 25          | 300      |
| FSHCSS0403 | 1/4(10-24) x 3/8      | 25          | 500      | FSHCSS0614 | 3/8 (5/16-18) x 1 3/4 | 25          | 250      |
| FSHCSS0404 | 1/4(10-24) x 1/2      | 25          | 500      | FSHCSS0616 | 3/8 (5/16-18) x 2     | 25          | 250      |
| FSHCSS0406 | 1/4(10-24) x 3/4      | 25          | 500      | FSHCSS0618 | 3/8 (5/16-18) x 2 1/4 | 25          | 250      |
| FSHCSS0407 | 1/4(10-24) x 7/8      | 25          | 500      | FSHCSS0620 | 3/8 (5/16-18) x 2 1/2 | 25          | 250      |
| FSHCSS0408 | 1/4(10-24) x 1        | 25          | 500      | FSHCSS0628 | 3/8 (5/16-18) x 3 1/2 | 25          | 200      |
| FSHCSS0412 | 1/4(10-24) x 1 1/2    | 25          | 300      | FSHCSS0630 | 3/8 (5/16-18) x 3 3/4 | 25          | 200      |
| FSHCSS0416 | 1/4(10-24) x 2        | 25          | 300      | FSHCSS0636 | 3/8 (5/16-18) x 4 1/2 | 25          | 150      |
| FSHCSS0432 | 1/4(10-24) x 4        | 25          | 200      | FSHCSS0803 | 1/2(3/8-16) x 3/8     | 25          | 300      |
| FSHCSS0503 | 5/16(1/4-20) x 3/8    | 25          | 500      | FSHCSS0804 | 1/2(3/8-16) x 1/2     | 25          | 300      |
| FSHCSS0504 | 5/16(1/4-20) x 1/2    | 25          | 500      | FSHCSS0805 | 1/2(3/8-16) x 5/8     | 0           | 300      |
| FSHCSS0506 | 5/16(1/4-20) x 3/4    | 25          | 500      | FSHCSS0806 | 1/2(3/8-16) x 3/4     | 25          | 300      |
| FSHCSS0508 | 5/16(1/4-20) x 1      | 25          | 500      | FSHCSS0807 | 1/2(3/8-16) x 7/8     | 25          | 300      |
| FSHCSS0512 | 5/16(1/4-20) x 1 1/2  | 25          | 300      | FSHCSS0808 | 1/2(3/8-16) x 1       | 25          | 300      |
| FSHCSS0603 | 3/8 (5/16-18) x 3/8   | 25          | 500      | FSHCSS0810 | 1/2(3/8-16) x 1-1/4   | 25          | 200      |
| FSHCSS0604 | 3/8 (5/16-18) x 1/2   | 25          | 500      | FSHCSS0812 | 1/2(3/8-16) x 1-1/2   | 25          | 200      |
| FSHCSS0605 | 3/8 (5/16-18) x 5/8   | 25          | 500      | FSHCSS0816 | 1/2(3/8-16) x 2       | 25          | 200      |
| FSHCSS0606 | 3/8 (5/16-18) x 3/4   | 25          | 500      | FSHCSS0818 | 1/2(3/8-16) x 2-1/4   | 25          | 150      |
| FSHCSS0607 | 3/8 (5/16-18) x 7/8   | 25          | 500      | FSHCSS0824 | 1/2(3/8-16) x 3       | 25          | 150      |
| FSHCSS0608 | 3/8 (5/16-18) x 1     | 25          | 500      | FSHCSS0828 | 1/2(3/8-16) x 3-1/2   | 25          | 100      |
| FSHCSS0610 | 3/8 (5/16-18) x 1 1/4 | 25          | 300      | FSHCSS1004 | 5/8(1/2-13) x 1/2     | 25          | 200      |

## COARSE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED

| Part #     | Size                | Package Qty | Bulk Qty | Part #     | Size                | Package Qty | Bulk Qty |
|------------|---------------------|-------------|----------|------------|---------------------|-------------|----------|
| FSHCSS1006 | 5/8(1/2-13) x 3/4   | 25          | 200      | FSHCSS1212 | 3/4(5/8-11) x 1-1/2 | 10          | -        |
| FSHCSS1008 | 5/8(1/2-13) x 1     | 25          | 200      | FSHCSS1216 | 3/4(5/8-11) x 2     | 10          | -        |
| FSHCSS1012 | 5/8(1/2-13) x 1-1/2 | 25          | -        | FSHCSS1220 | 3/4(5/8-11) x 2-1/2 | 10          | -        |
| FSHCSS1014 | 5/8(1/2-13) x 1-3/4 | 25          | -        | FSHCSS1222 | 3/4(5/8-11) x 2-3/4 | 10          | 100      |
| FSHCSS1016 | 5/8(1/2-13) x 2     | 25          | -        | FSHCSS1224 | 3/4(5/8-11) x 3     | 10          | -        |
| FSHCSS1020 | 5/8(1/2-13) x 2-1/2 | 25          | 125      | FSHCSS1232 | 3/4(5/8-11) x 4     | 10          | -        |
| FSHCSS1032 | 5/8(1/2-13) x 4     | 10          | 75       | FSHCSS1234 | 3/4(5/8-11) x 4-1/4 | 10          | 50       |

## COARSE THREAD • ZINC PLATED • MADE IN USA OR IMPORTED

| Part #      | Size                | Package Qty | Bulk Qty |
|-------------|---------------------|-------------|----------|
| FSHCSSZ0816 | 1/2(3/8-16) x 2     | 25          | 100      |
| FSHCSSZ0820 | 1/2(3/8-16) x 2-1/2 | 25          | 200      |
| FSHCSSZ0822 | 1/2(3/8-16) x 2-3/4 | 25          | 200      |
| FSHCSSZ1040 | 5/8(1/2-13) x 5     | 10          | 75       |

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #        | Size                | Package Qty | Bulk Qty |
|---------------|---------------------|-------------|----------|
| FSSSHCSS05025 | 5/16(1/4-20) x 5/16 | 100         | 500      |
| FSSSHCSS0504  | 5/16(1/4-20) x 1/2  | 25          | 500      |



## SOCKET SET SCREWS

## TECHNICAL INFORMATION

### DIMENSIONS

| Set Screw Size | Allen Wrench Size | Point Diameter Cup Point |
|----------------|-------------------|--------------------------|
| #6             | 1/16              | 0.069                    |
| #8             | 5/64              | 0.081                    |
| #10            | 3/32              | 0.095                    |
| 1/4            | 1/8               | 0.125                    |
| 5/16           | 5/32              | 0.164                    |
| 3/8            | 3/16              | 0.203                    |
| 7/16           | 7/32              | 0.242                    |
| 1/2            | 1/4               | 0.28                     |
| 5/8            | 5/16              | 0.359                    |
| 3/4            | 3/8               | 0.437                    |
| 7/8            | 1/2               | 0.516                    |
| 1              | 9/16              | 0.584                    |

# SOCKET SET SCREWS

## CUP POINT • COARSE THREAD • PLAIN FINISH • IMPORTED

Cup Point Socket Set Screws are the most commonly used set screws. They are used where cutting in on the shaft is acceptable.



| Part #     | Size            | Package Qty | Bulk Qty | Part #    | Size           | Package Qty | Bulk Qty |
|------------|-----------------|-------------|----------|-----------|----------------|-------------|----------|
| FSSSO00604 | #6-32 x 1/4     | 100         | 5000     | FSSSO0606 | 3/8-16 x 3/8   | 100         | 5000     |
| FSSSO00803 | #8-32 x 3/16    | 100         | 5000     | FSSSO0607 | 3/8-16 x 7/16  | 100         | 5000     |
| FSSSO00804 | #8-32 x 1/4     | 100         | 5000     | FSSSO0608 | 3/8-16 x 1/2   | 100         | 5000     |
| FSSSO00805 | #8-32 x 5/16    | 100         | 5000     | FSSSO0610 | 3/8-16 x 5/8   | 100         | 3000     |
| FSSSO00806 | #8-32 x 3/8     | 100         | 5000     | FSSSO0612 | 3/8-16 x 3/4   | 100         | 3000     |
| FSSSO00808 | #8-32 x 1/2     | 100         | 5000     | FSSSO0616 | 3/8-16 x 1     | 100         | 2000     |
| FSSSO00812 | #8-32 x 3/4     | 100         | 5000     | FSSSO0624 | 3/8-16 x 1-1/2 | 100         | 1000     |
| FSSSO01003 | #10-24 x 3/16   | 100         | 5000     | FSSSO0706 | 7/16-14 x 3/8  | 100         | 5000     |
| FSSSO01004 | #10-24 x 1/4    | 100         | 5000     | FSSSO0707 | 7/16-14 x 7/16 | 100         | 5000     |
| FSSSO01005 | #10-24 x 5/16   | 100         | 5000     | FSSSO0708 | 7/16-14 x 1/2  | 100         | 3000     |
| FSSSO01006 | #10-24 x 3/8    | 100         | 5000     | FSSSO0710 | 7/16-14 x 5/8  | 100         | 3000     |
| FSSSO01008 | #10-24 x 1/2    | 100         | 5000     | FSSSO0712 | 7/16-14 x 3/4  | 100         | 2000     |
| FSSSO01204 | #12-24 x 1/4    | 100         | 5000     | FSSSO0806 | 1/2-13 x 3/8   | 100         | 4000     |
| FSSSO01206 | #12-24 x 3/8    | 100         | 5000     | FSSSO0808 | 1/2-13 x 1/2   | 100         | 2500     |
| FSSSO0404  | 1/4-20 x 1/4    | 100         | 5000     | FSSSO0810 | 1/2-13 x 5/8   | 100         | -        |
| FSSSO0405  | 1/4-20 x 5/16   | 100         | 5000     | FSSSO0812 | 1/2-13 x 3/4   | 100         | 1500     |
| FSSSO0406  | 1/4-20 x 3/8    | 100         | 5000     | FSSSO0816 | 1/2-13 x 1     | 50          | 1000     |
| FSSSO0408  | 1/4-20 x 1/2    | 100         | 5000     | FSSSO0820 | 1/2-13 x 1-1/4 | 50          | -        |
| FSSSO0412  | 1/4-20 x 3/4    | 100         | 5000     | FSSSO0824 | 1/2-13 x 1-1/2 | 50          | 700      |
| FSSSO0414  | 1/4-20 x 7/8    | 100         | 5000     | FSSSO0828 | 1/2-13 x 1-3/4 | 25          | -        |
| FSSSO0424  | 1/4-20 x 1-1/2  | 100         | 3000     | FSSSO0832 | 1/2-13 x 2     | 25          | -        |
| FSSSO0504  | 5/16-18 x 1/4   | 100         | 5000     | FSSSO0840 | 1/2-13 x 3-1/2 | 25          | -        |
| FSSSO0505  | 5/16-18 x 5/16  | 100         | 5000     | FSSSO0848 | 1/2-13 x 3     | 25          | -        |
| FSSSO0506  | 5/16-18 x 3/8   | 100         | 5000     | FSSSO1008 | 5/8-11 x 1/2   | 50          | -        |
| FSSSO0507  | 5/16-18 x 7/16  | 100         | 5000     | FSSSO1012 | 5/8-11 x 3/4   | 50          | 1000     |
| FSSSO0508  | 5/16-18 x 1/2   | 100         | 5000     | FSSSO1016 | 5/8-11 x 1     | 50          | -        |
| FSSSO0512  | 5/16-18 x 3/4   | 100         | 4000     | FSSSO1020 | 5/8-11 x 1-1/4 | 25          | 600      |
| FSSSO0514  | 5/16-18 x 7/8   | 100         | 3000     | FSSSO1024 | 5/8-11 x 1-1/2 | 25          | 500      |
| FSSSO0516  | 5/16-18 x 1     | 100         | 3000     | FSSSO1220 | 3/4-10 x 1-1/4 | 25          | 500      |
| FSSSO0520  | 5/16-18 x 1-1/4 | 100         | 2000     | FSSSO1232 | 3/4-10 x 2     | 10          | -        |
| FSSSO0604  | 3/8-16 x 1/4    | 100         | 5000     | FSSSO1440 | 7/8-9 x 2-1/2  | 10          | 150      |
| FSSSO0605  | 3/8-16 x 5/16   | 100         | 5000     |           |                |             |          |

## CUP POINT • FINE THREAD • PLAIN FINISH • IMPORTED



| Part #      | Size           | Package Qty | Bulk Qty | Part #     | Size           | Package Qty | Bulk Qty |
|-------------|----------------|-------------|----------|------------|----------------|-------------|----------|
| FSSSOF01003 | #10-32 x 3/16  | 100         | -        | FSSSOF0508 | 5/16-24 x 1/2  | 100         | 5000     |
| FSSSOF01004 | #10-32 x 1/4   | 100         | 5000     | FSSSOF0512 | 5/16-24 x 3/4  | 100         | -        |
| FSSSOF01005 | #10-32 x 5/16  | 100         | -        | FSSSOF0605 | 3/8-24 x 5/16  | 100         | 5000     |
| FSSSOF01006 | #10-32 x 3/8   | 100         | 5000     | FSSSOF0606 | 3/8-24 x 3/8   | 100         | 5000     |
| FSSSOF01008 | #10-32 x 1/2   | 100         | 5000     | FSSSOF0607 | 3/8-24 x 7/16  | 100         | -        |
| FSSSOF0403  | 1/4-28 x 3/16  | 100         | -        | FSSSOF0608 | 3/8-24 x 1/2   | 100         | 5000     |
| FSSSOF0404  | 1/4-28 x 1/4   | 100         | 5000     | FSSSOF0612 | 3/8-24 x 3/4   | 100         | 3000     |
| FSSSOF0405  | 1/4-28 x 5/16  | 100         | 5000     | FSSSOF0706 | 7/16-20 x 3/8  | 100         | -        |
| FSSSOF0406  | 1/4-28 x 3/8   | 100         | 5000     | FSSSOF0708 | 7/16-20 x 1/2  | 100         | 3000     |
| FSSSOF0407  | 1/4-28 x 7/16  | 100         | -        | FSSSOF0710 | 7/16-20 x 5/8  | 100         | -        |
| FSSSOF0408  | 1/4-28 x 1/2   | 100         | 5000     | FSSSOF0712 | 7/16-20 x 3/4  | 100         | -        |
| FSSSOF0412  | 1/4-28 x 3/4   | 100         | -        | FSSSOF0808 | 1/2-20 x 1/2   | 100         | -        |
| FSSSOF0504  | 5/16-24 x 1/4  | 100         | 5000     | FSSSOF0810 | 1/2-20 x 5/8   | 100         | 2500     |
| FSSSOF0505  | 5/16-24 x 5/16 | 100         | 5000     | FSSSOF0812 | 1/2-20 x 3/4   | 100         | -        |
| FSSSOF0506  | 5/16-24 x 3/8  | 100         | 5000     | FSSSOF0816 | 1/2-20 x 1     | 50          | -        |
| FSSSOF0507  | 5/16-24 x 7/16 | 100         | -        | FSSSOF0824 | 1/2-20 x 1-1/2 | 50          | 600      |

## 18-8 STAINLESS STEEL • CUP POINT • COARSE THREAD • IMPORTED

| Part #      | Size          | Package Qty | Bulk Qty |
|-------------|---------------|-------------|----------|
| FSSSSS00304 | #10-24 x 1/4  | 100         | -        |
| FSSSSS00404 | 1/4-20 x 1/4  | 100         | 5000     |
| FSSSSS00405 | 1/4-20 x 5/16 | 100         | 5000     |





## SOCKET SET SCREWS

### KNURLED CUP POINT • COARSE THREAD • PLAIN FINISH • IMPORTED

Knurled Cup Point Socket Set Screw are the same as the normal cup points with the addition of the locking action of the knurls.



| Part #       | Size           | Package Qty | Bulk Qty | Part #      | Size          | Package Qty | Bulk Qty |
|--------------|----------------|-------------|----------|-------------|---------------|-------------|----------|
| FSSSOKP00604 | #6-32 x 1/4    | 100         | 5000     | FSSSOKP0508 | 5/16-18 x 1/2 | 100         | 5000     |
| FSSSOKP00804 | #8-32 x 1/4    | 100         | 5000     | FSSSOKP0606 | 3/8-16 x 3/8  | 100         | 5000     |
| FSSSOKP00806 | #8-32 x 3/8    | 100         | 5000     | FSSSOKP0608 | 3/8-16 x 1/2  | 100         | 5000     |
| FSSSOKP01004 | #10-24 x 1/4   | 100         | 5000     | FSSSOKP0610 | 3/8-16 x 5/8  | 100         | 5000     |
| FSSSOKP01006 | #10-24 x 3/8   | 100         | 5000     | FSSSOKP0612 | 3/8-16 x 3/4  | 100         | 5000     |
| FSSSOKP0404  | 1/4-20 x 1/4   | 100         | 5000     | FSSSOKP0704 | 7/16-14 x 1/2 | 100         | 5000     |
| FSSSOKP0406  | 1/4-20 x 3/8   | 100         | 5000     | FSSSOKP0808 | 1/2-13 x 1/2  | 100         | 1000     |
| FSSSOKP0408  | 1/4-20 x 1/2   | 100         | 5000     | FSSSOKP0810 | 1/2-13 x 5/8  | 100         | 1000     |
| FSSSOKP0505  | 5/16-18 x 5/16 | 100         | 5000     | FSSSOKP0812 | 1/2-13 x 3/4  | 100         | 1000     |
| FSSSOKP0506  | 5/16-18 x 3/8  | 100         | 5000     | FSSSOKP0816 | 1/2-13 x 1    | 100         | 1000     |

### FLAT POINT • FINE THREAD • PLAIN FINISH • IMPORTED

| Part #       | Size          | Package Qty | Bulk Qty |
|--------------|---------------|-------------|----------|
| FSSSOFLF0506 | 5/16-24 x 3/8 | 100         | 5000     |



### OVAL POINT • COARSE THREAD • PLAIN FINISH • IMPORTED

| Part #     | Size       | Package Qty | Bulk Qty |
|------------|------------|-------------|----------|
| FSSSO00632 | 3/8-16 x 2 | 100         | 1000     |



# SQUARE HEAD SET SCREWS

## TECHNICAL INFORMATION

### DIMENSIONS

| Size | Head Width | Head Height |
|------|------------|-------------|
| 1/4  | 1/4        | 0.187       |
| 5/16 | 5/16       | 0.235       |
| 3/8  | 3/8        | 0.282       |
| 7/16 | 7/16       | 0.328       |
| 1/2  | 1/2        | 0.375       |
| 5/8  | 5/8        | 0.469       |
| 3/4  | 3/4        | 0.563       |
| 7/8  | 7/8        | 0.657       |
| 1    | 1          | 0.75        |

### CUP POINT ▪ COARSE THREAD ▪ PLAIN FINISH ▪ IMPORTED

Square Head Set Screws give the advantage of an exterior wrenching surface and may be especially used in dirty environments where removal is difficult with socket set screws.



| Part #   | Size            | Package Qty | Bulk Qty | Part #    | Size            | Package Qty | Bulk Qty |
|----------|-----------------|-------------|----------|-----------|-----------------|-------------|----------|
| FSSSQ404 | 1/4-20 x 1/2    | 100         | 2500     | FSSSQ706  | 7/16-14 x 3/4   | 50          | 600      |
| FSSSQ406 | 1/4-20 x 3/4    | 100         | 2000     | FSSSQ708  | 7/16-14 x 1     | 50          | 1000     |
| FSSSQ408 | 1/4-20 x 1      | 100         | 1500     | FSSSQ710  | 7/16-14 x 1-1/4 | 50          | -        |
| FSSSQ410 | 1/4-20 x 1-1/4  | 100         | 1000     | FSSSQ806  | 1/2-13 x 3/4    | 50          | 800      |
| FSSSQ412 | 1/4-20 x 1-1/2  | 100         | 1000     | FSSSQ808  | 1/2-13 x 1      | 50          | 700      |
| FSSSQ504 | 5/16-18 x 1/2   | 100         | 1200     | FSSSQ810  | 1/2-13 x 1-1/4  | 50          | 600      |
| FSSSQ505 | 5/16-18 x 5/8   | 100         | 1200     | FSSSQ812  | 1/2-13 x 1-1/2  | 50          | 500      |
| FSSSQ506 | 5/16-18 x 3/4   | 100         | 3000     | FSSSQ816  | 1/2-13 x 2      | 50          | 150      |
| FSSSQ508 | 5/16-18 x 1     | 100         | 2000     | FSSSQ820  | 1/2-13 x 2-1/2  | 50          | 300      |
| FSSSQ510 | 5/16-18 x 1-1/4 | 100         | 600      | FSSSQ824  | 1/2-13 x 3      | 50          | 250      |
| FSSSQ512 | 5/16-18 x 1-1/2 | 100         | 500      | FSSSQ828  | 1/2-13 x 3-1/2  | 25          | 200      |
| FSSSQ516 | 5/16-18 x 2     | 100         | 500      | FSSSQ1008 | 5/8-11 x 1      | 25          | 300      |
| FSSSQ604 | 3/8-16 x 1/2    | 100         | 2000     | FSSSQ1012 | 5/8-11 x 1-1/2  | 25          | 200      |
| FSSSQ605 | 3/8-16 x 5/8    | 100         | 800      | FSSSQ1016 | 5/8-11 x 2      | 25          | 200      |
| FSSSQ606 | 3/8-16 x 3/4    | 100         | 1500     | FSSSQ1020 | 5/8-11 x 2-1/2  | 25          | 175      |
| FSSSQ608 | 3/8-16 x 1      | 100         | 600      | FSSSQ1024 | 5/8-11 x 3      | 25          | 150      |
| FSSSQ610 | 3/8-16 x 1-1/4  | 100         | 400      | FSSSQ1216 | 3/4-10 x 2      | 20          | 150      |
| FSSSQ612 | 3/8-16 x 1-1/2  | 100         | 350      | FSSSQ1220 | 3/4-10 x 2-1/2  | 20          | 100      |
| FSSSQ616 | 3/8-16 x 2      | 100         | 250      | FSSSQ1224 | 3/4-10 x 3      | 20          | 100      |

## COTTER PINS

## COTTER PINS

ZINC PLATED • MADE IN USA



| Part #  | Size         | Package Qty | Part #  | Size         | Package Qty |
|---------|--------------|-------------|---------|--------------|-------------|
| FCP0402 | 1/16 x 1/2   | 100         | FCP1007 | 5/32 x 1-3/4 | 100         |
| FCP0403 | 1/16 x 3/4   | 100         | FCP1008 | 5/32 x 2     | 100         |
| FCP0404 | 1/16 x 1     | 100         | FCP1009 | 5/32 x 2-1/4 | 100         |
| FCP0405 | 1/16 x 1-1/4 | 100         | FCP1010 | 5/32 x 2-1/2 | 100         |
| FCP0502 | 5/64 x 1/2   | 100         | FCP1012 | 5/32 x 3     | 100         |
| FCP0503 | 5/64 x 3/4   | 100         | FCP1203 | 3/16 x 3/4   | 100         |
| FCP0504 | 5/64 x 1     | 100         | FCP1204 | 3/16 x 1     | 100         |
| FCP0507 | 5/64 x 1-3/4 | 100         | FCP1205 | 3/16 x 1-1/4 | 100         |
| FCP0602 | 3/32 x 1/2   | 100         | FCP1206 | 3/16 x 1-1/2 | 100         |
| FCP0603 | 3/32 x 3/4   | 100         | FCP1207 | 3/16 x 1-3/4 | 100         |
| FCP0604 | 3/32 x 1     | 100         | FCP1208 | 3/16 x 2     | 100         |
| FCP0605 | 3/32 x 1-1/4 | 100         | FCP1209 | 3/16 x 2-1/4 | 100         |
| FCP0606 | 3/32 x 1-1/2 | 100         | FCP1210 | 3/16 x 2-1/2 | 100         |
| FCP0607 | 3/32 x 1-3/4 | 100         | FCP1212 | 3/16 x 3     | 100         |
| FCP0608 | 3/32 x 2     | 100         | FCP1214 | 3/16 x 3-1/2 | 100         |
| FCP0703 | 7/64 x 3/4   | 100         | FCP1404 | 7/32 x 1     | 100         |
| FCP0704 | 7/64 x 1     | 100         | FCP1405 | 7/32 x 1-1/4 | 100         |
| FCP0705 | 7/64 x 1-1/4 | 100         | FCP1406 | 7/32 x 1-1/2 | 100         |
| FCP0706 | 7/64 x 1-1/2 | 100         | FCP1408 | 7/32 x 2     | 100         |
| FCP0802 | 1/8 x 1/2    | 100         | FCP1410 | 7/32 x 2-1/2 | 100         |
| FCP0803 | 1/8 x 3/4    | 100         | FCP1412 | 7/32 x 3     | 100         |
| FCP0804 | 1/8 x 1      | 100         | FCP1605 | 1/4 x 1-1/4  | 50          |
| FCP0805 | 1/8 x 1-1/4  | 100         | FCP1606 | 1/4 x 1-1/2  | 50          |
| FCP0806 | 1/8 x 1-1/2  | 100         | FCP1607 | 1/4 x 1-3/4  | 50          |
| FCP0807 | 1/8 x 1-3/4  | 100         | FCP1608 | 1/4 x 2      | 50          |
| FCP0808 | 1/8 x 2      | 100         | FCP1610 | 1/4 x 2-1/2  | 50          |
| FCP0810 | 1/8 x 2-1/2  | 100         | FCP1612 | 1/4 x 3      | 50          |
| FCP0812 | 1/8 x 3      | 100         | FCP1614 | 1/4 x 3-1/2  | 50          |
| FCP1003 | 5/32 x 3/4   | 100         | FCP1616 | 1/4 x 4      | 50          |
| FCP1004 | 5/32 x 1     | 100         | FCP2006 | 5/16 x 1-1/2 | 50          |
| FCP1005 | 5/32 x 1-1/4 | 100         | FCP2008 | 5/16 x 2     | 50          |
| FCP1006 | 5/32 x 1-1/2 | 100         | FCP2010 | 5/16 x 2-1/2 | 50          |

## ZINC PLATED • MADE IN USA

| Part #  | Size         | Package Qty | Part #  | Size        | Package Qty |
|---------|--------------|-------------|---------|-------------|-------------|
| FCP2012 | 5/16 x 3     | 50          | FCP2410 | 3/8 x 2-1/2 | 50          |
| FCP2014 | 5/16 x 3-1/2 | 50          | FCP2412 | 3/8 x 3     | 25          |
| FCP2016 | 5/16 x 4     | 50          | FCP2414 | 3/8 x 3-1/2 | 25          |
| FCP2020 | 5/16 x 5     | 50          | FCP2416 | 3/8 x 4     | 25          |
| FCP2408 | 3/8 x 2      | 50          |         |             |             |

## 18-8 • STAINLESS STEEL • IMPORTED

| Part #    | Size        | Package Qty |
|-----------|-------------|-------------|
| FSSCP0603 | 3/32 x 3/4  | 100         |
| FSSCP0803 | 1/8 x 3/4   | 100         |
| FSSCP0804 | 1/8 x 1     | 100         |
| FSSCP0805 | 1/8 x 1-1/4 | 100         |



## SPRING PINS (ROLL PINS)

## ZINC PLATED • MADE IN USA

| Pin Size | Inside |
|----------|--------|
| 5/32     | 3/32   |
| 7/32     | 1/8    |
| 1/4      | 5/32   |
| 5/16     | 3/16   |
| 3/8      | 7/32   |
| 1/2      | 5/16   |

## ZINC PLATED • MADE IN USA

Spring Pins are made of carbon steel. Their size is given as the hole size they were designed for by the overall length. They can be doubled up for heavy duty applications. The chart above gives the sizes to use when doubling up.



| Part #  | Size        | Uninstalled OD | Package Qty | Part #  | Size         | Uninstalled OD | Package Qty |
|---------|-------------|----------------|-------------|---------|--------------|----------------|-------------|
| FSP0408 | 1/16 x 1/2  | 0.069          | 100         | FSP0608 | 3/32 x 1/2   | 0.103          | 100         |
| FSP0416 | 1/16 x 1    | 0.069          | 100         | FSP0612 | 3/32 x 3/4   | 0.103          | 100         |
| FSP0505 | 5/64 x 5/16 | 0.086          | 100         | FSP0616 | 3/32 x 1     | 0.103          | 100         |
| FSP0508 | 5/64 x 1/2  | 0.083          | 100         | FSP0624 | 3/32 x 1-1/2 | 0.103          | 100         |
| FSP0512 | 5/64 x 3/4  | 0.083          | 100         | FSP0806 | 1/8 x 3/8    | 0.135          | 100         |
| FSP0516 | 5/64 x 1    | 0.083          | 100         | FSP0808 | 1/8 x 1/2    | 0.135          | 100         |

# SPRING PINS (ROLL PINS)

## ZINC PLATED • MADE IN USA

| Part #  | Size         | Uninstalled OD | Package Qty | Part #  | Size         | Uninstalled OD | Package Qty |
|---------|--------------|----------------|-------------|---------|--------------|----------------|-------------|
| FSP0810 | 1/8 x 5/8    | 0.135          | 100         | FSP1620 | 1/4 x 1-1/4  | 0.264          | 100         |
| FSP0812 | 1/8 x 3/4    | 0.135          | 100         | FSP1624 | 1/4 x 1-1/2  | 0.264          | 100         |
| FSP0816 | 1/8 x 1      | 0.135          | 100         | FSP1628 | 1/4 x 1-3/4  | 0.264          | 100         |
| FSP0820 | 1/8 x 1-1/4  | 0.135          | 100         | FSP1632 | 1/4 x 2      | 0.264          | 100         |
| FSP0824 | 1/8 x 1-1/2  | 0.135          | 100         | FSP1636 | 1/4 x 2-1/4  | 0.264          | 100         |
| FSP0828 | 1/8 x 1-3/4  | 0.135          | 100         | FSP1640 | 1/4 x 2-1/2  | 0.264          | 100         |
| FSP0832 | 1/8 x 2      | 0.135          | 100         | FSP1648 | 1/4 x 3      | 0.264          | 50          |
| FSP1008 | 5/32 x 1/2   | 0.167          | 100         | FSP1656 | 1/4 x 3-1/2  | 0.264          | 50          |
| FSP1012 | 5/32 x 3/4   | 0.167          | 100         | FSP2016 | 5/16 x 1     | 0.330          | 50          |
| FSP1016 | 5/32 x 1     | 0.167          | 100         | FSP2020 | 5/16 x 1-1/4 | 0.330          | 50          |
| FSP1020 | 5/32 x 1-1/4 | 0.167          | 100         | FSP2024 | 5/16 x 1-1/2 | 0.330          | 50          |
| FSP1024 | 5/32 x 1-1/2 | 0.167          | 100         | FSP2028 | 5/16 x 1-3/4 | 0.330          | 50          |
| FSP1032 | 5/32 x 2     | 0.167          | 100         | FSP2032 | 5/16 x 2     | 0.330          | 50          |
| FSP1040 | 5/32 x 2-1/2 | 0.167          | 100         | FSP2036 | 5/16 x 2-1/4 | 0.330          | 50          |
| FSP1208 | 3/16 x 1/2   | 0.199          | 100         | FSP2040 | 5/16 x 2-1/2 | 0.330          | 50          |
| FSP1210 | 3/16 x 5/8   | 0.199          | 100         | FSP2048 | 5/16 x 3     | 0.330          | 50          |
| FSP1212 | 3/16 x 3/4   | 0.199          | 100         | FSP2056 | 5/16 x 3-1/2 | 0.330          | 50          |
| FSP1216 | 3/16 x 1     | 0.199          | 100         | FSP2416 | 3/8 x 1      | 0.395          | 50          |
| FSP1220 | 3/16 x 1-1/4 | 0.199          | 100         | FSP2420 | 3/8 x 1-1/4  | 0.395          | 50          |
| FSP1224 | 3/16 x 1-1/2 | 0.199          | 100         | FSP2424 | 3/8 x 1-1/2  | 0.395          | 50          |
| FSP1228 | 3/16 x 1-3/4 | 0.199          | 100         | FSP2428 | 3/8 x 1-3/4  | 0.395          | 50          |
| FSP1232 | 3/16 x 2     | 0.199          | 100         | FSP2432 | 3/8 x 2      | 0.395          | 50          |
| FSP1240 | 3/16 x 2-1/2 | 0.199          | 100         | FSP2436 | 3/8 x 2-1/4  | 0.395          | 25          |
| FSP1248 | 3/16 x 3     | 0.199          | 100         | FSP2440 | 3/8 x 2-1/2  | 0.395          | 25          |
| FSP1412 | 7/32 x 3/4   | 0.232          | 100         | FSP2448 | 3/8 x 3      | 0.395          | 25          |
| FSP1414 | 7/32 x 7/8   | 0.232          | 100         | FSP2456 | 3/8 x 3-1/2  | 0.395          | 25          |
| FSP1416 | 7/32 x 1     | 0.232          | 100         | FSP2464 | 3/8 x 4      | 0.395          | 25          |
| FSP1420 | 7/32 x 1-1/4 | 0.232          | 100         | FSP2824 | 7/16 x 1-1/2 | 0.459          | 25          |
| FSP1424 | 7/32 x 1-1/2 | 0.232          | 100         | FSP2832 | 7/16 x 2     | 0.459          | 25          |
| FSP1428 | 7/32 x 1-3/4 | 0.232          | 100         | FSP2840 | 7/16 x 2-1/2 | 0.459          | 25          |
| FSP1432 | 7/32 x 2     | 0.232          | 100         | FSP2848 | 7/16 x 3     | 0.459          | 25          |
| FSP1448 | 7/32 x 3     | 0.232          | 100         | FSP2856 | 7/16 x 3-1/2 | 0.459          | 25          |
| FSP1608 | 1/4 x 1/2    | 0.264          | 100         | FSP3232 | 1/2 x 2      | 0.524          | 25          |
| FSP1610 | 1/4 x 5/8    | 0.264          | 100         | FSP3240 | 1/2 x 2-1/2  | 0.524          | 25          |
| FSP1612 | 1/4 x 3/4    | 0.264          | 100         | FSP3248 | 1/2 x 3      | 0.524          | 25          |
| FSP1614 | 1/4 x 7/8    | 0.264          | 100         | FSP3256 | 1/2 x 3-1/2  | 0.524          | 25          |
| FSP1616 | 1/4 x 1      | 0.264          | 100         |         |              |                |             |

# SPRING PINS (ROLL PINS), SPIRAL SPRING PINS, HEAVY DUTY SAFETY PINS

## 420 STAINLESS STEEL ▪ IMPORTED

| Part #    | Size    | Uninstalled OD | Package Qty |
|-----------|---------|----------------|-------------|
| FSSSP1632 | 1/4 x 2 | 0.264          | 100         |



## SPIRAL SPRING PINS

### PLAIN FINISH ▪ MADE IN USA

Spiral Spring Pins are also known as Coiled Spring Pins. They are used in the same manner as standard spring pins but are for more heavy duty applications.



| Part #   | Size         | Uninstalled OD | Package Qty | Part #   | Size         | Uninstalled OD | Package Qty |
|----------|--------------|----------------|-------------|----------|--------------|----------------|-------------|
| FSPS0516 | 5/64 x 1     | 0.088          | 100         | FSPS1620 | 1/4 x 1-1/4  | 0.271          | 100         |
| FSPS0616 | 3/32 x 1     | 0.105          | 100         | FSPS1624 | 1/4 x 1-1/2  | 0.271          | 100         |
| FSPS0824 | 1/8 x 1-1/2  | 0.086          | 100         | FSPS1632 | 1/4 x 2      | 0.271          | 100         |
| FSPS1216 | 3/16 x 1     | 0.205          | 100         | FSPS2024 | 5/16 x 1-1/2 | 0.337          | 50          |
| FSPS1224 | 3/16 x 1-1/2 | 0.205          | 100         | FSPS2032 | 5/16 x 2     | 0.337          | 50          |
| FSPS1232 | 3/16 x 2     | 0.205          | 100         | FSPS2040 | 5/16 x 2-1/2 | 0.337          | 50          |

## HEAVY DUTY SAFETY PINS

### ZINC PLATED ▪ MADE IN USA

| Part # | Size           | Discount Qty |
|--------|----------------|--------------|
| FSP4   | .120 x 2 13/16 | 10           |
| FSP5   | .148 x 3 3/4   | 10           |



# CLEVIS PINS

## CLEVIS PINS

### TECHNICAL INFORMATION

#### DIMENSIONS

| Size | Head OD   | Head Height | Hole Size |
|------|-----------|-------------|-----------|
| 3/16 | .32/.30   | .07/.05     | 3/32      |
| 1/4  | .38/.36   | .10/.08     | 3/32      |
| 5/16 | .44/.42   | .10/.08     | 9/64      |
| 3/8  | .51/.49   | .13/.11     | 5/32      |
| 7/16 | .57/.55   | .16/.14     | 5/32      |
| 1/2  | .63/.61   | .16/.14     | 5/32      |
| 9/16 | .82/.80   | .21/.19     | 5/32      |
| 5/8  | .82/.80   | .21/.19     | 5/32      |
| 3/4  | .94/.92   | .26/.24     | 5/32      |
| 7/8  | 1.04/1.02 | .32/.30     | 3/16      |
| 1    | 1.19/1.17 | .35/.33     | 3/16      |

#### ZINC PLATED • MADE IN USA

Clevis Pins are a versatile and economical fastener. They are manufactured from low carbon steel.



| Part #  | Size         | Effective Length | Package Qty | Bulk Qty | Part #  | Size         | Effective Length | Package Qty | Bulk Qty |
|---------|--------------|------------------|-------------|----------|---------|--------------|------------------|-------------|----------|
| FCL0312 | 3/16 x 1-1/2 | 1-23/64          | 25          | 1000     | FCL0524 | 5/16 x 3     | 2-25/32          | 25          | -        |
| FCL0404 | 1/4 x 1/2    | 23/64            | 25          | 2500     | FCL0606 | 3/8 x 3/4    | 33/64            | 25          | -        |
| FCL0405 | 1/4 x 5/8    | 31/64            | 25          | 3000     | FCL0608 | 3/8 x 1      | 49/64            | 25          | -        |
| FCL0406 | 1/4 x 3/4    | 39/64            | 25          | -        | FCL0609 | 3/8 x 1-1/8  | 57/64            | 25          | -        |
| FCL0408 | 1/4 x 1      | 55/64            | 25          | -        | FCL0610 | 3/8 x 1-1/4  | 1-1/64           | 25          | -        |
| FCL0410 | 1/4 x 1-1/4  | 1-7/64           | 25          | -        | FCL0612 | 3/8 x 1-1/2  | 1-17/64          | 25          | 500      |
| FCL0412 | 1/4 x 1-1/2  | 1-23/64          | 25          | -        | FCL0614 | 3/8 x 1-3/4  | 1-33/64          | 25          | 500      |
| FCL0414 | 1/4 x 1-3/4  | 1-39/64          | 25          | -        | FCL0616 | 3/8 x 2      | 1-49/64          | 25          | 1000     |
| FCL0416 | 1/4 x 2      | 1-55/64          | 25          | -        | FCL0620 | 3/8 x 2-1/2  | 2-17/64          | 25          | 250      |
| FCL0418 | 1/4 x 2-1/4  | 2-7/64           | 25          | -        | FCL0624 | 3/8 x 3      | 2-49/64          | 25          | 250      |
| FCL0420 | 1/4 x 2-1/2  | 2-23/64          | 25          | -        | FCL0628 | 3/8 x 3-1/2  | 3-17/64          | 25          | -        |
| FCL0508 | 5/16 x 1     | 25/32            | 25          | -        | FCL0708 | 7/16 x 1     | 49/64            | 25          | -        |
| FCL0510 | 5/16 x 1-1/4 | 1-1/32           | 25          | 1000     | FCL0712 | 7/16 x 1-1/2 | 1-17/64          | 25          | -        |
| FCL0512 | 5/16 x 1-1/2 | 1-9/32           | 25          | 1000     | FCL0716 | 7/16 x 2     | 1-49/64          | 25          | -        |
| FCL0514 | 5/16 x 1-3/4 | 1-17/32          | 25          | -        | FCL0720 | 7/16 x 2-1/2 | 2-17/64          | 25          | -        |
| FCL0516 | 5/16 x 2     | 1-25/32          | 25          | 1000     | FCL0808 | 1/2 x 1      | 49/64            | 25          | 500      |
| FCL0520 | 5/16 x 2-1/2 | 2-9/32           | 25          | -        | FCL0810 | 1/2 x 1-1/4  | 1-1/64           | 25          | 500      |

## ZINC PLATED • MADE IN USA

| Part #  | Size         | Effective Length | Package Qty | Bulk Qty | Part #  | Size        | Effective Length | Package Qty | Bulk Qty |
|---------|--------------|------------------|-------------|----------|---------|-------------|------------------|-------------|----------|
| FCL0812 | 1/2 x 1-1/2  | 1-17/64          | 25          | 250      | FCL1012 | 5/8 x 1-1/2 | 1-17/64          | 10          | 1000     |
| FCL0814 | 1/2 x 1-3/4  | 1-33/64          | 25          | -        | FCL1016 | 5/8 x 2     | 1-49/64          | 10          | 1000     |
| FCL0816 | 1/2 x 2      | 1-49/64          | 25          | 1000     | FCL1020 | 5/8 x 2-1/2 | 2-17/64          | 10          | 1000     |
| FCL0820 | 1/2 x 2-1/2  | 2-17/64          | 25          | 250      | FCL1024 | 5/8 x 3     | 2-49/64          | 10          | -        |
| FCL0824 | 1/2 x 3      | 2-49/64          | 25          | 200      | FCL1028 | 5/8 x 3-1/2 | 3-17/64          | 10          | 100      |
| FCL0828 | 1/2 x 3-1/2  | 3-17/64          | 25          | 100      | FCL1220 | 3/4 x 2-1/2 | 2-17/64          | 10          | -        |
| FCL0836 | 1/2 x 4-1/2  | 4-17/64          | 50          | 1000     | FCL1222 | 3/4 x 2-3/4 | 2-33/64          | 10          | 1000     |
| FCL0852 | 1/2 x 6 1/2  | 6-17/64          | 50          | 500      | FCL1224 | 3/4 x 3     | 2-49/64          | 10          | -        |
| FCL0920 | 9/16 x 2-1/2 | 2-17/64          | 10          | 1000     | FCL1236 | 3/4 x 4-1/2 | 3-17/64          | 10          | 1000     |
| FCL1010 | 5/8 x 1-1/4  | 1-1/64           | 10          | 1000     |         |             |                  |             |          |

## PLAIN FINISH • MADE IN USA

| Part #   | Size        | Effective Length | Package Qty | Bulk Qty |
|----------|-------------|------------------|-------------|----------|
| FCLP0408 | 1/4 x 1     | 55/64            | 25          | -        |
| FCLP0810 | 1/2 x 1-1/4 | 1-1/64           | 25          | 250      |
| FCLP0812 | 1/2 x 1-1/2 | 1-17/64          | 25          | 250      |
| FCLP0814 | 1/2 x 1-3/4 | 1-33/64          | 25          | -        |
| FCLP1028 | 5/8 x 3-1/2 | 3-17/64          | 10          | -        |



## COTTERLESS • ZINC PLATED • MADE IN USA

Cotterless Clevis Pins are quick disconnect pin that features a ball locking mechanism instead of a cotter pin or other fastener.

| Part #   | Size    | Effective Length | Package Qty | Bulk Qty |
|----------|---------|------------------|-------------|----------|
| FCLC0408 | 1/4 x 1 | 3/4              | 100         | 2500     |





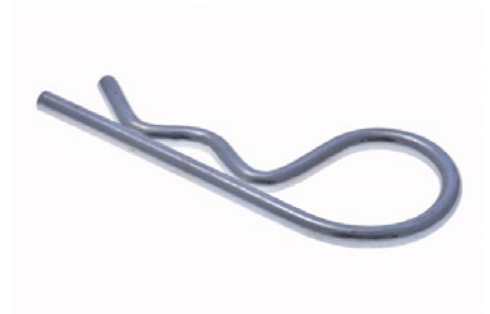
## BRIDGE PINS, BOW TIE LOCKING COTTERS

### BRIDGE PINS

#### ZINC PLATED • MADE IN USA OR IMPORTED

Bridge Pins are reusable and ideal for quick assembly and disassembly. Size is measured as wire diameter by overall length. They are manufactured from spring steel.

| Part #    | Description | Size           | Use on Shaft Size | Package Qty | Bulk Qty |
|-----------|-------------|----------------|-------------------|-------------|----------|
| FBP236    | BP236       | 0.054 x 3/4    | 3/16-1/4          | 25          | 5000     |
| FBP1      | #1          | .059 X 1-1/8   | 1/4-5/16          | 25          | -        |
| FBP2      | #2          | .073 X 1-7/16  | 5/16-3/8          | 25          | -        |
| FBP203    | BP203       | .092 x 1-5/8   | 1/4-1/2           | 25          | 500      |
| FBP3      | #3          | .092 X 1-7/8   | 3/8-7/16          | 25          | 1000     |
| FBP4      | #4          | .120 X 2-3/8   | 1/2-5/8           | 25          | 2000     |
| FBP21-041 | 21-041      | .120 X 1-29/32 | 3/8               | 25          | -        |
| FBP5      | #5          | .148 X 2-11/16 | 5/8-3/4           | 25          | 1000     |
| FBP6      | #6          | .178 X 3-3/4   | 7/8-1             | 25          | 500      |
| FBP21-09  | 21-09       | .243 X 5       | 1-1/8-1-1/2       | 25          | -        |



#### 18-8 STAINLESS STEEL • MADE IN USA

| Part # | Description | Size     | Use on Shaft Size | Package Qty | Bulk Qty |
|--------|-------------|----------|-------------------|-------------|----------|
| FBP6S  | HAIR-6-S    | .091 X 2 | 3/8-1/2           | 25          | 5000     |



### BOW TIE LOCKING COTTERS

#### ZINC PLATED • MADE IN USA

Bow Tie Locking Cotters work like Bridge Pins but lock themselves in place.

| Part #   | Description | Size          | Use on Shaft Size | Package Qty |
|----------|-------------|---------------|-------------------|-------------|
| FBT72    | #72         | .072 X 1-3/8  | 1/4-3/8           | 25          |
| FBT91    | #91         | .091 X 1-7/8  | 5/16-3/8          | 25          |
| FBT120   | #120        | .120 X 2-3/4  | 7/16-1/2          | 25          |
| FBT14810 | #148-10     | .148 X 3-9/16 | 0.625             | 25          |
| FBT14812 | #148-12     | .148 X 3-9/16 | 0.75              | 25          |



## LYNCH PINS

## TECHNICAL INFORMATION

## DIMENSIONS

| Diameter | Length Under Head | Effective Length | Ring ID |
|----------|-------------------|------------------|---------|
| 3/16     | 1 9/16            | 1 1/4            | 113/32  |
| 1/4      | 1 9/16            | 1 1/4            | 113/32  |
| 5/16     | 1 9/16            | 1 1/4            | 113/32  |
| 7/16     | 1 9/16            | 1 11/32          | 117/32  |

## YELLOW ZINC PLATED • IMPORTED

Lynch Pins are an excellent quick disconnect fastener. The ring holds the pin securely in place and gives an easy grip when removing the pin.

| Part # | Size           | Discount Qty |
|--------|----------------|--------------|
| FLPC3  | 3/16 x 1-1/4   | 100          |
| FLPC4  | 1/4 x 1-1/4    | 100          |
| FLPC5  | 5/16 x 1-1/4   | 100          |
| FLPC7  | 7/16 x 1-11/32 | 100          |



## LOCK PINS

## TECHNICAL INFORMATION

## DIMENSIONS

| Diameter | Effective Length | Length Under Head | Wire Clearance |
|----------|------------------|-------------------|----------------|
| 1/4      | 1 3/4            | 2                 | 1 5/8          |
| 1/4      | 2 1/2            | 2 3/4             | 1 5/8          |
| 5/16     | 1 3/8            | 1 5/8             | 1 1/2          |
| 5/16     | 1 3/4            | 2                 | 1 1/2          |
| 5/16     | 2 1/2            | 2 3/4             | 1 1/2          |
| 3/8      | 1 3/4            | 2                 | 1 1/2          |
| 3/8      | 2 1/2            | 2 3/4             | 1 1/2          |
| 3/8      | 3                | 3 1/4             | 1 1/2          |

LOCK PINS, COIL TENSION LOCK PINS

SINGLE WIRE ▪ ZINC PLATED ▪ MADE IN USA OR IMPORTED

Lock Pins are a popular quick disconnect pin that find uses in many places. The retainer wire is made of tempered spring wire and the pin is made of low carbon steel.

| Part #  | Size         | Wire Configuration | Discount Qty |
|---------|--------------|--------------------|--------------|
| FLPSW4S | 1/4 x 1-3/4  | Round              | 100          |
| FLPSW4L | 1/4 x 2-1/2  | Square             | 100          |
| FLPSW5S | 5/16 x 1-3/4 | Round              | 100          |
| FLPSW5L | 5/16 x 2-1/2 | Square             | 100          |
| FLPSW6S | 3/8 x 1-3/4  | Round              | 100          |
| FLPSW6  | 3/8 x 2-1/2  | Square             | 100          |
| FLPSW6L | 3/8 x 3      | Square             | 100          |



DOUBLE WIRE ▪ ZINC PLATED ▪ MADE IN USA OR IMPORTED

| Part # | Size         | Wire Configuration | Discount Qty |
|--------|--------------|--------------------|--------------|
| FLP4   | 1/4 x 1-3/4  | Round              | 100          |
| FLP4LR | 1/4 x 2-1/2  | Round              | 100          |
| FLP511 | 5/16 x 1-3/8 | Round              | 100          |
| FLP5L  | 5/16 x 2-1/2 | Square             | 100          |
| FLP611 | 3/8 x 1-3/8  | Round              | 100          |
| FLP6S  | 3/8 x 1-3/4  | Round              | 100          |
| FLP6L  | 3/8 x 2-1/2  | Square             | 100          |



COIL TENSION LOCK PINS

TECHNICAL INFORMATION

DIMENSIONS

| Diameter | Effective Length | Wire Clearance | Length Under Head |
|----------|------------------|----------------|-------------------|
| 1/4      | 3                | 15/8           | 3 7/16            |
| 5/16     | 3                | 19/16          | 3 7/16            |
| 5/16     | 4                | 2              | 4 7/16            |
| 3/8      | 3                | 1 1/2          | 3 7/16            |
| 3/8      | 3 1/2            | 1 3/4          | 3 15/16           |
| 3/8      | 4                | 2              | 4 7/16            |
| 1/2      | 3 1/2            | 2 3/4          | 4 1/8             |
| 1/2      | 4 1/2            | 3              | 5 1/8             |

## ZINC PLATED • IMPORTED

| Part #  | Size        | Discount Qty |
|---------|-------------|--------------|
| FLP424  | 1/4 x 3     | 100          |
| FLP524  | 5/16 x 3    | 100          |
| FLP532  | 5/16 x 4    | 100          |
| FLP624  | 3/8 x 3     | 100          |
| FLP628  | 3/8 x 3-1/2 | 100          |
| FLP632  | 3/8 x 4     | 100          |
| FLPU828 | 1/2 x 3-1/2 | 100          |



## HITCH PINS

## YELLOW ZINC PLATED • MADE IN USA

Hitch Pins feature a large easy to grip pull ring. They are hardened to a core Rockwell hardness of C25-C34 for sizes up to 1" and C19-C30 for sizes larger than 1". Size is measured as diameter by length under the head to the end of the pin.



| Part #   | Size        | Effective Length | Part #   | Size          | Effective Length |
|----------|-------------|------------------|----------|---------------|------------------|
| FHP06035 | 3/8 x 4-3/8 | 4                | FHP12056 | 3/4 x 7       | 6.25             |
| FHP08038 | 1/2 x 4-3/4 | 4                | FHP14042 | 7/8 x 5-1/4   | 4.25             |
| FHP08052 | 1/2 x 6-1/2 | 5.75             | FHP16046 | 1 x 5-3/4     | 4.75             |
| FHP10038 | 5/8 x 4-3/4 | 4                | FHP16062 | 1 x 7-3/4     | 6.75             |
| FHP10046 | 5/8 x 5-3/4 | 5                | FHP18062 | 1-1/8 x 7-3/4 | 7                |
| FHP10054 | 5/8 x 6-3/4 | 6                | FHP20062 | 1-1/4 x 7-3/4 | 7                |
| FHP12038 | 3/4 x 4-3/4 | 4                | FHP22072 | 1-3/8 x 9     | 8                |
| FHP12054 | 3/4 x 6-3/4 | 6                |          |               |                  |

## RED HANDLED HITCH PINS, COTTERLESS HITCH PINS

### RED HANDLED HITCH PINS

#### RED PLASTISOL COATED HEAD • MADE IN USA

Hitch Pins feature a large easy to grip handle for their head. The red plastisol coated handle makes them easier to find and gives them a more comfortable grip. They are manufactured from high tensile steel and heat treated. Size is measured as diameter by effective length. Effective length is measured under the head to the nearest edge of the hole for the hairpin clip.



| Part #     | Size        | Part #     | Size          |
|------------|-------------|------------|---------------|
| FHPRH10032 | 5/8 x 4     | FHPRH16060 | 1 x 7-1/2     |
| FHPRH10044 | 5/8 x 5-1/2 | FHPRH18068 | 1-1/8 x 8-1/2 |
| FHPRH12032 | 3/4 x 4     | FHPRH20068 | 1-1/4 x 8-1/2 |
| FHPRH12052 | 3/4 x 6-1/2 | FHPRH24068 | 1-1/2 x 8-1/2 |
| FHPRH14032 | 7/8 x 4     | FHPRH28068 | 1-3/4 x 8-1/2 |
| FHPRH14052 | 7/8 x 6-1/2 | FHPRH32104 | 2 x 13        |
| FHPRH16036 | 1 x 4-1/2   |            |               |

### COTTERLESS HITCH PINS

#### ZINC PLATED • MADE IN USA OR IMPORTED

Cotterless Hitch Pins are a quick disconnect pin that features a ball locking mechanism in place of cotter pin or other fastener. They are manufactured of low carbon steel. Size is measured as diameter by effective length. (effective length is measured from under ring to ball)

| Part #    | Size        | Effective Length |
|-----------|-------------|------------------|
| FHPC04016 | 1/4 x 2-1/4 | 2                |
| FHPC04018 | 1/4 x 2-1/2 | 2-1/4            |
| FHPC06006 | 3/8 x 1-1/8 | 3/4              |
| FHPC06013 | 3/8 x 1-5/8 | 1-5/8            |
| FHPC06017 | 3/8 x 2-1/8 | 2-1/8            |
| FHPC08024 | 1/2 x 3     | 2-3/4            |



## BENT PINS

### ZINC PLATED • MADE IN USA OR IMPORTED

Bent Pins are widely used as a quick disconnect for trailer hitches. They are manufactured from carbon steel and come with the matching bridge pin. Size is measured as diameter by length under the handle to the edge of the hole.

| Part #   | Diameter    | Discount Qty |
|----------|-------------|--------------|
| FBEP0820 | 1/2 x 2-1/2 | 100          |
| FBEP0824 | 1/2 x 3     | 100          |
| FBEP0832 | 1/2 x 4     | 100          |
| FBEP0836 | 1/2 x 4-1/2 | 100          |
| FBEP1024 | 5/8 x 3     | 50           |
| FBEP1032 | 5/8 x 4     | 50           |
| FBEP1040 | 5/8 x 5     | 50           |



## DOWEL PINS

### PLAIN FINISH • MADE IN USA

Dowel Pins are manufactured from alloy steel and hardened to Rockwell C60 Min. Their diameter is 0.0002 oversized.



| Part #   | Size         | Package Qty | Bulk Qty | Part #   | Size        | Package Qty | Bulk Qty |
|----------|--------------|-------------|----------|----------|-------------|-------------|----------|
| FDPP0206 | 1/8 x 3/4    | 100         | 2000     | FDPP0516 | 5/16 x 2    | 100         | 500      |
| FDPP0306 | 3/16 x 3/4   | 100         | 2000     | FDPP0608 | 3/8 x 1     | 100         | 1000     |
| FDPP0308 | 3/16 x 1     | 100         | 2000     | FDPP0612 | 3/8 x 1-1/2 | 100         | 600      |
| FDPP0310 | 3/16 x 1-1/4 | 100         | 2000     | FDPP0616 | 3/8 x 2     | 100         | 500      |
| FDPP0404 | 1/4 x 1/2    | 100         | -        | FDPP0620 | 3/8 x 2-1/2 | 100         | 400      |
| FDPP0406 | 1/4 x 3/4    | 100         | 1000     | FDPP0808 | 1/2 x 1     | 20          | 450      |
| FDPP0408 | 1/4 x 1      | 100         | 1000     | FDPP0812 | 1/2 x 1-1/2 | 20          | 300      |
| FDPP0410 | 1/4 x 1-1/4  | 100         | 1000     | FDPP0816 | 1/2 x 2     | 20          | 300      |
| FDPP0412 | 1/4 x 1-1/2  | 100         | 1000     | FDPP0820 | 1/2 x 2-1/2 | 20          | 225      |
| FDPP0420 | 1/4 x 2-1/2  | 100         | 650      | FDPP0824 | 1/2 x 3     | 20          | 200      |
| FDPP0508 | 5/16 x 1     | 100         | 1000     | FDPP1208 | 3/4 x 1     | 20          | 200      |
| FDPP0512 | 5/16 x 1-1/2 | 100         | 1000     | FDPP1216 | 3/4 x 2     | 10          | 100      |

## REPLACEMENT BALLS FOR 3 POINT HITCHES, LANYARDS, OPEN END BLIND RIVETS

### REPLACEMENT BALLS FOR 3 POINT HITCHES

| Part #    | Description              | Hole Diameter | Ball Diameter | Hole Length |
|-----------|--------------------------|---------------|---------------|-------------|
| EQRB22442 | TOP LINK CAT 2 JD/OLIVER | 1             | 2             | 1-3/4       |
| EQRB22443 | LIFT ARM CAT 1 FORD      | 7/8           | 2-1/4         | 1-3/8       |
| EQRB22444 | LIFT ARM CAT 2 FORD      | 1-1/8         | 2-1/4         | 1-3/4       |



### LANYARDS

#### NYLON COATED GALVANIZED STEEL - MADE IN USA

Lanyards are an excellent way to attach your pins so they don't get lost. Size is given as cable size by length. Length is measured from the inside of the eye to the inside of the eye for the type A and overall length for the type D.

| Part #  | Size      | Type |
|---------|-----------|------|
| FL036A  | 3/64 x 6  | A    |
| FL0312D | 3/64 x 12 | D    |



### OPEN END BLIND RIVETS

### TECHNICAL INFORMATION

#### SHEAR AND TENSILE STRENGTH

| Rivet Material | Body Material | Rivet Diameter | Shear Strength | Tensile Strength |
|----------------|---------------|----------------|----------------|------------------|
| Aluminum       | Aluminum      | 1/8            | 155            | 240              |
| Aluminum       | Aluminum      | 5/32           | 230            | 340              |
| Aluminum       | Aluminum      | 3/16           | 330            | 515              |
| Aluminum       | Aluminum      | 1/4            | 600            | 800              |
| Aluminum       | Steel         | 1/8            | 225            | 315              |
| Aluminum       | Steel         | 3/16           | 465            | 700              |
| Aluminum       | Steel         | 1/4            | 990            | 1195             |
| Steel          | Steel         | 1/8            | 305            | 410              |
| Steel          | Steel         | 3/16           | 610            | 870              |
| Steel          | Steel         | 1/4            | 1270           | 1550             |

## OPEN END BLIND RIVETS

## DIMENSIONS

| Rivet Size        | Body Diameter |        | Recommended Hole Size |       | Drill Size | Head Diameter |       | Head Height | Mandrel Diameter |
|-------------------|---------------|--------|-----------------------|-------|------------|---------------|-------|-------------|------------------|
|                   | Min           | Max    | Min                   | Max   |            | Min           | Max   |             | Nominal          |
| 1/8 DOME HEAD     | 0.1225        | 0.1275 | 0.129                 | 0.133 | #30        | 0.238         | 0.262 | 0.05        | 0.076            |
| 1/8 LARGE FLANGE  | 0.1225        | 0.1275 | 0.129                 | 0.133 | #30        | 0.363         | 0.387 | 0.062       | 0.076            |
| 5/32 DOME HEAD    | 0.153         | 0.159  | 0.16                  | 0.164 | #20        | 0.297         | 0.327 | 0.056       | 0.0955           |
| 3/16 DOME HEAD    | 0.1845        | 0.1905 | 0.192                 | 0.196 | #11        | 0.356         | 0.394 | 0.062       | 0.114            |
| 3/16 LARGE FLANGE | 0.1845        | 0.1905 | 0.192                 | 0.196 | #11        | 0.606         | 0.644 | 0.108       | 0.114            |
| 1/4 DOME HEAD     | 0.247         | 0.253  | 0.257                 | 0.261 | F          | 0.475         | 0.525 | 0.093       | 0.149            |

## DOME HEAD • ALUMINUM RIVET ALUMINUM MANDREL • MADE IN USA OR IMPORTED

Open End Blind Rivets are especially designed to fasten things where there is access to only one side. They are an economical means of fastening anywhere when easy disassembly is not required. Large Flange rivets are especially suitable when fastening a softer material such as wood or plastic to metal. Size is given as rivet diameter by grip range (thickness of material to be fastened).



| Part #   | Size             | Package Qty | Bulk Qty | Part #   | Size              | Package Qty | Bulk Qty |
|----------|------------------|-------------|----------|----------|-------------------|-------------|----------|
| FPRA0402 | 1/16 x .032-.125 | 100         | 10000    | FPRA0606 | 3/16 x .251-.375  | 100         | 5000     |
| FPRA0403 | 1/8 x .126-.187  | 100         | 10000    | FPRA0608 | 3/16 x .376-.500  | 100         | 4000     |
| FPRA0404 | 1/8 x .126-.250  | 100         | 10000    | FPRA0610 | 3/16 x .500-.625  | 100         | 4000     |
| FPRA0406 | 1/8 x .251-.375  | 100         | 10000    | FPRA0612 | 3/16 x .626-.750  | 100         | 4000     |
| FPRA0408 | 1/8 x .375-.500  | 100         | 10000    | FPRA0616 | 3/16 x .875-1.000 | 100         | -        |
| FPRA0502 | 5/32 x .062-.125 | 100         | 8000     | FPRA0804 | 1/4 x .125-.250   | 100         | -        |
| FPRA0504 | 5/32 x .188-.250 | 100         | 8000     | FPRA0806 | 1/4 x .251-.375   | 100         | -        |
| FPRA0506 | 5/32 x .251-.375 | 100         | -        | FPRA0808 | 1/4 x .376-.500   | 100         | 2000     |
| FPRA0602 | 3/16 x .032-.125 | 100         | 5000     | FPRA0812 | 1/4 x .626-.750   | 100         | 2000     |
| FPRA0604 | 3/16 x .126-.250 | 100         | 5000     |          |                   |             |          |

For rivet tools, see pages 297-298.

## DOME HEAD • ALUMINUM RIVET ALUMINUM MANDREL • BLACK ANODIZED • IMPORTED

| Part #    | Size             | Package Qty | Bulk Qty |
|-----------|------------------|-------------|----------|
| FPRAB0404 | 1/8 x .126-.250  | 100         | 10000    |
| FPRAB0604 | 3/16 x .126-.250 | 100         | 5000     |
| FPRAB0606 | 3/16 x .251-.375 | 100         | 5000     |
| FPRAB0608 | 3/16 x .376-.500 | 100         | 4000     |
| FPRAB0610 | 3/16 x .501-.625 | 100         | 5000     |





# OPEN END BLIND RIVETS

## DOME HEAD • ALUMINUM RIVET ALUMINUM MANDREL • WHITE • IMPORTED

| Part #    | Size            | Package Qty | Bulk Qty |
|-----------|-----------------|-------------|----------|
| FPRAW0402 | 1/8 x .063-.125 | 100         | 10000    |



## LARGE FLANGE • ALUMINUM RIVET ALUMINUM MANDREL • MADE IN USA OR IMPORTED

| Part #     | Size             | Package Qty | Bulk Qty |
|------------|------------------|-------------|----------|
| FPRALF0404 | 1/8 x .188-.250  | 100         | 10000    |
| FPRALF0604 | 3/16 x .062-.250 | 100         | 3000     |
| FPRALF0606 | 3/16 x .062-.250 | 100         | 3000     |
| FPRALF0608 | 3/16 x .376-.500 | 100         | 3000     |
| FPRALF0610 | 3/16 x .500-.625 | 100         | 2000     |



## DOME HEAD • STEEL RIVET STEEL MANDREL • MADE IN USA OR IMPORTED

| Part #   | Size             | Package Qty | Bulk Qty |
|----------|------------------|-------------|----------|
| FPRS0402 | 1/8 x .032-.125  | 100         | 15000    |
| FPRS0404 | 1/8 x .188-.250  | 100         | 10000    |
| FPRS0406 | 1/8 x .251-.375  | 100         | 10000    |
| FPRS0408 | 1/8 x .376-.500  | 100         | -        |
| FPRS0602 | 3/16 x .032-.125 | 100         | 5000     |
| FPRS0604 | 3/16 x .126-.250 | 100         | 5000     |
| FPRS0606 | 3/16 x .062-.250 | 100         | 5000     |

| Part #   | Size             | Package Qty | Bulk Qty |
|----------|------------------|-------------|----------|
| FPRS0608 | 3/16 x .376-.500 | 100         | 4000     |
| FPRS0610 | 3/16 x .500-.625 | 100         | 4000     |
| FPRS0806 | 1/4 x .251-.375  | 100         | 2000     |
| FPRS0808 | 1/4 x .376-.500  | 100         | 2000     |
| FPRS0810 | 1/4 x .501-.625  | 100         | 2000     |
| FPRS0812 | 1/4 x .625-.750  | 100         | 2000     |



## DOME HEAD • STEEL RIVET STEEL MANDREL • BLACK • IMPORTED

| Part #    | Size             | Package Qty | Bulk Qty |
|-----------|------------------|-------------|----------|
| FPRSB0604 | 3/16 x .126-.250 | 100         | 5000     |



## LARGE FLANGE • STEEL RIVET STEEL MANDREL • IMPORTED

| Part #     | Size             | Package Qty | Bulk Qty |
|------------|------------------|-------------|----------|
| FPRSLF0604 | 3/16 x .125-.250 | 100         | 3000     |
| FPRSLF0606 | 3/16 x .313-.375 | 100         | -        |
| FPRSLF0608 | 3/16 x .376-.500 | 100         | 3000     |



## DOME HEAD • ALUMINUM RIVET STEEL MANDREL • MADE IN USA OR IMPORTED

| Part #    | Size             | Package Qty | Bulk Qty |
|-----------|------------------|-------------|----------|
| FPRSA0402 | 1/8 x .032-.125  | 100         | 10000    |
| FPRSA0403 | 1/8 x .126-.187  | 100         | 10000    |
| FPRSA0404 | 1/8 x .126-.250  | 100         | -        |
| FPRSA0606 | 3/16 x .313-.375 | 100         | 5000     |
| FPRSA0608 | 3/16 x .376-.500 | 100         | 4000     |
| FPRSA0610 | 3/16 x .501-.625 | 100         | -        |
| FPRSA0806 | 1/4 x .251-.375  | 100         | 2000     |
| FPRSA0808 | 1/4 x .376-.500  | 100         | -        |



## LARGE FLANGE • ALUMINUM RIVET STEEL MANDREL • IMPORTED

| Part #      | Size             | Package Qty | Bulk Qty |
|-------------|------------------|-------------|----------|
| FPRSALF0604 | 3/16 x .062-.250 | 100         | 3000     |



## DOME HEAD • STAINLESS STEEL RIVET STAINLESS STEEL MANDREL • MADE IN USA OR IMPORTED

| Part #   | Size             | Package Qty | Bulk Qty | Part #   | Size             | Package Qty | Bulk Qty |
|----------|------------------|-------------|----------|----------|------------------|-------------|----------|
| FSSPR42  | 1/8 x .032-.125  | 100         | 10000    | FSSPR612 | 3/16 x .626-.750 | 100         | 4000     |
| FSSPR44  | 1/8 x .188-.250  | 100         | 10000    | FSSPR62  | 3/16 x .063-.125 | 100         | 5000     |
| FSSPR46  | 1/8 x .313-.375  | 100         | 5000     | FSSPR64  | 3/16 x .126-.250 | 100         | 5000     |
| FSSPR48  | 1/8 x .376-.500  | 100         | 5000     | FSSPR66  | 3/16 x .251-.375 | 100         | 5000     |
| FSSPR52  | 5/32 x .062-.125 | 100         | 8000     | FSSPR68  | 3/16 x .376-.500 | 100         | 4000     |
| FSSPR56  | 5/32 x .251-.375 | 100         | 6000     | FSSPR86  | 1/4 x .251-.375  | 100         | 1000     |
| FSSPR610 | 3/16 x .501-.625 | 100         | 4000     | FSSPR88  | 1/4 x .376-.500  | 100         | 1000     |



## OPEN END BLIND RIVETS, TRIFOLD BLIND RIVETS

### DOME HEAD • STAINLESS STEEL RIVET STAINLESS STEEL MANDREL • BLACK • IMPORTED

| Part #     | Size             | Package Qty | Bulk Qty |
|------------|------------------|-------------|----------|
| FSSPRB0604 | 3/16 x .188-.250 | 100         | 5000     |

### LARGE FLANGE • STAINLESS STEEL RIVET STAINLESS STEEL MANDREL • MADE IN USA OR IMPORTED

| Part #    | Size             | Package Qty | Bulk Qty |
|-----------|------------------|-------------|----------|
| FSSPRLF66 | 3/16 x .251-.375 | 100         | 3000     |

### MULTI GRIP • DOME HEAD • ALUMINUM RIVET STEEL MANDREL • MADE IN USA OR IMPORTED

| Part #      | Size                          | Package Qty | Bulk Qty |
|-------------|-------------------------------|-------------|----------|
| FPRMGSA0607 | 3/16 x .187-.437              | 100         | 4000     |
| FPRMGSA0608 | 3/16 X .251-.500 LARGE FLANGE | 500         | -        |



## TRIFOLD BLIND RIVETS

### ALUMINUM • IMPORTED

Trifold Blind Rivets are designed to be used with soft brittle or thin materials. The trifold formation on the blind side applies the rivets clamping force over an increased area.

| Part #   | Size             | Package Qty | Bulk Qty |
|----------|------------------|-------------|----------|
| FPRB0619 | 3/16 x .039-.157 | 100         | 5000     |
| FPRB0640 | 3/16 x .157-.625 | 100         | 5000     |



### BAYTITE SHAVABLE HEAD WITH WASHER

| Part #     | Size             | Package Qty | Bulk Qty |
|------------|------------------|-------------|----------|
| FPRTWS0608 | 3/16 x .050-.500 | 100         | 3000     |
| FPRTWS0612 | 3/16 x .563-.750 | 100         | 2500     |



# STRUCTURAL RIVETS

## STEEL RIVET STEEL MANDREL • MADE IN USA

### DIMENSIONS

| Size | Hole Size |       | Head OD | Head Height | Shear Strength | Tensile Strength |
|------|-----------|-------|---------|-------------|----------------|------------------|
|      | MIN       | MAX   |         |             |                |                  |
| 3/16 | 0.191     | 0.201 | 0.385   | 0.085       | 1450           | 1200             |
| 1/4  | 0.261     | 0.272 | 0.530   | 0.120       | 2750           | 2200             |

## STEEL RIVET STEEL MANDREL • MADE IN USA

Structural rivets are hole-filling, multi-grip fasteners, and the rivet stem is mechanically locked into place. Since they are hole-filling, hole sizes do not have to be as exact, and since they are multi-grip, they can fasten a wider range of material thicknesses.



| Part #  | Size             | Package Qty | Bulk Qty |
|---------|------------------|-------------|----------|
| FSRS64  | 3/16 x .062-.270 | 100         | 5000     |
| FSRS67  | 3/16 x .062-.437 | 100         | 3000     |
| FSRS810 | 1/4 x .080-.625  | 100         | 2000     |

## ALUMINUM RIVET ALUMINUM MANDREL • MADE IN USA OR IMPORTED

### DIMENSIONS

| Size | Hole Size |       | Head OD | Head Height | Shear Strength | Tensile Strength |
|------|-----------|-------|---------|-------------|----------------|------------------|
|      | MIN       | MAX   |         |             |                |                  |
| 3/16 | 0.191     | 0.201 | 0.385   | 0.085       | 700            | 580              |
| 1/4  | 0.261     | 0.272 | 0.530   | 0.120       | 1300           | 950              |

## ALUMINUM RIVET ALUMINUM MANDREL • MADE IN USA OR IMPORTED

| Part #  | Size             | Package Qty | Bulk Qty |
|---------|------------------|-------------|----------|
| FSRA64  | 3/16 x .062-.270 | 100         | 5000     |
| FSRA67  | 3/16 x .062-.437 | 100         | 3000     |
| FSRA810 | 1/4 x .080-.625  | 100         | 2000     |
| FSRA86  | 1/4 x .080-.375  | 100         | 2000     |



## RIVET NUTS

## RIVET NUTS

## TECHNICAL INFORMATION

### DIMENSIONS

| Size | Drill Size | Head OD | Head Height | Body Diameter |
|------|------------|---------|-------------|---------------|
|      |            |         |             | MAX           |
| #10  | 19/64      | 0.415   | 0.03        | 0.296         |
| 1/4  | 25/64      | 0.5     | 0.03        | 0.39          |
| 5/16 | 17/32      | 0.685   | 0.035       | 0.53          |
| 3/8  | 17/32      | 0.685   | 0.035       | 0.53          |

### LOW CARBON STEEL ▪ ZINC PLATED ▪ IMPORTED

Rivet Nuts are designed to install threads in sheet or plate metal where a drilled and tapped thread is not an option.



| Part #     | Size            | Package Qty | Bulk Qty | Part #     | Size             | Package Qty | Bulk Qty |
|------------|-----------------|-------------|----------|------------|------------------|-------------|----------|
| FRN0832130 | #8 x .080-.130  | 50          | 10000    | FRN420260  | 1/4 x .165-.260  | 100         | 4000     |
| FRN1032130 | #10 x .020-.130 | 100         | 8000     | FRN518150  | 5/16 x .027-.150 | 100         | 1800     |
| FRN1032225 | #10 x .130-.225 | 100         | 1000     | FRN518150Z | 5/16 x .027-.150 | 100         | 2000     |
| FRN1024130 | #10 x .020-.130 | 100         | -        | FRN518312  | 5/16 x .150-.312 | 100         | 2000     |
| FRN57152   | 1/4 x .080-.140 | 100         | 5000     | FRN616150  | 3/8 x .027-.150  | 25          | 2000     |
| FRN420165  | 1/4 x .027-.165 | 100         | 4000     | FRN616312  | 3/8 x .150-.312  | 100         | 1500     |

### 302 STAINLESS STEEL ▪ IMPORTED

| Part #      | Size            | Package Qty | Bulk Qty |
|-------------|-----------------|-------------|----------|
| FSSRN420165 | 1/4 x .027-.165 | 100         | -        |
| FSSRN420260 | 1/4 x .165-.260 | 100         | 2500     |
| FSSRN616312 | 3/8 x .150-.312 | 100         | -        |



SEMI TUBULAR RIVETS

| Part #     | Size        | Head Diameter | Package Qty | Bulk Qty |
|------------|-------------|---------------|-------------|----------|
| FROHST406  | 1/4 x 3/8   | 7/16          | 100         | 5000     |
| FROHST4115 | 1/4 x 23/32 | 7/16          | 100         | 3680     |
| FROHST414  | 1/4 x 7/8   | 7/16          | 100         | 5000     |
| FROHST507  | 5/16 x 7/16 | 1/2           | 100         | 5000     |
| FROHST508  | 5/16 x 1/2  | 1/2           | 100         | 5000     |
| FROHST516  | 5/16 x 1    | 1/2           | 100         | 1300     |

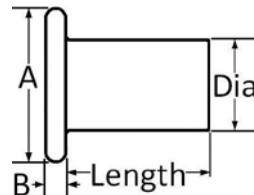
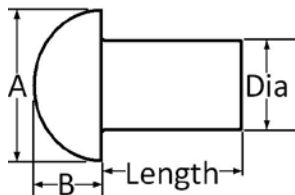


## SOLID RIVETS

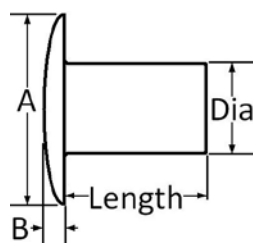
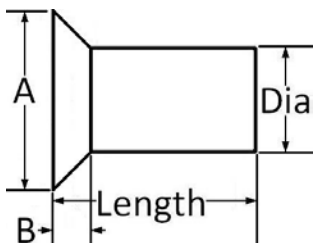
## SOLID RIVETS

## TECHNICAL INFORMATION

## DIMENSIONS



| Rivet Size | Round (Button) Head |       |       |       | Flat Head |       |       |       |
|------------|---------------------|-------|-------|-------|-----------|-------|-------|-------|
|            | A                   |       | B     |       | A         |       | B     |       |
|            | MAX                 | MIN   | MAX   | MIN   | MAX       | MIN   | MAX   | MIN   |
| 3/16       | 0.348               | 0.322 | 0.147 | 0.133 | 0.387     | 0.361 | 0.069 | 0.055 |
| 7/32       | 0.405               | 0.379 | 0.172 | 0.158 | 0.453     | 0.427 | 0.080 | 0.065 |
| 1/4        | 0.46                | 0.430 | 0.196 | 0.180 | 0.515     | 0.485 | 0.091 | 0.075 |
| 5/16       | 0.572               | 0.538 | 0.243 | 0.225 | 0.641     | 0.607 | 0.113 | 0.095 |
| 3/8        | 0.684               | 0.646 | 0.291 | 0.271 | 0.769     | 0.731 | 0.135 | 0.115 |
| 1/2        | 0.844               | 0.938 | 0.375 | 0.406 | 0.844     | 0.938 | 0.281 | 0.250 |
| 9/16       | 0.954               | 1.044 | 0.422 | 0.453 | 0.954     | 1.044 | 0.313 | 0.281 |



| Rivet Size | Countersunk Head |       |           | Truss Head |       |       |       |
|------------|------------------|-------|-----------|------------|-------|-------|-------|
|            | A                |       | B         | A          |       | B     |       |
|            | MAX              | MIN   | REFERENCE | MAX        | MIN   | MAX   | MIN   |
| 1/8        | 0.235            | 0.217 | 0.053     | 0.297      | 0.277 | 0.048 | 0.036 |
| 3/16       | 0.351            | 0.326 | 0.079     | 0.442      | 0.422 | 0.069 | 0.055 |
| 1/4        | 0.469            | 0.437 | 0.106     | 0.590      | 0.560 | 0.091 | 0.075 |
| 5/16       | 0.588            | 0.547 | 0.133     | 0.732      | 0.702 | 0.113 | 0.095 |
| 3/8        | 0.704            | 0.656 | 0.159     | 0.878      | 0.848 | 0.135 | 0.115 |

## ROUND (BUTTON) HEAD • PLAIN FINISH • MADE IN USA

| Part #   | Size         | Package Qty | Bulk Qty |
|----------|--------------|-------------|----------|
| FRBH320  | 3/16 x 1-1/4 | 100         | -        |
| FRBH1456 | 7/32 x 7/32  | 100         | 5500     |
| FRBH408  | 1/4 x 1/2    | 100         | -        |
| FRBH412  | 1/4 x 3/4    | 100         | -        |
| FRBH416  | 1/4 x 1      | 100         | -        |
| FRBH424  | 1/4 x 1-1/2  | 100         | -        |
| FRBH512  | 5/16 x 3/4   | 100         | 1488     |



## FLAT HEAD • PLAIN FINISH • MADE IN USA

| Part #  | Size        | Package Qty | Bulk Qty |
|---------|-------------|-------------|----------|
| FRFH406 | 1/4 x 3/8   | 100         | -        |
| FRFH408 | 1/4 x 1/2   | 100         | -        |
| FRFH412 | 1/4 x 3/4   | 100         | -        |
| FRFH424 | 1/4 x 1-1/2 | 100         | -        |
| FRFH510 | 5/16 x 5/8  | 100         | -        |
| FRFH512 | 5/16 x 3/4  | 100         | -        |
| FRFH608 | 3/8 x 1/2   | 100         | 1325     |
| FRFH610 | 3/8 x 5/8   | 100         | 1000     |
| FRFH616 | 3/8 x 1     | 100         | -        |



## TRUSS HEAD • PLAIN FINISH • MADE IN USA

| Part #  | Size       | Package Qty | Bulk Qty |
|---------|------------|-------------|----------|
| FRTH306 | 3/16 x 3/8 | 100         | 5000     |
| FRTH416 | 1/4 x 1    | 100         | -        |
| FRTH616 | 3/8 x 1    | 100         | 2000     |



## COUNTERSUNK HEAD • PLAIN FINISH • MADE IN USA

| Part #  | Size      | Package Qty |
|---------|-----------|-------------|
| FRCS410 | 1/4 x 5/8 | 100         |
| FRCS412 | 1/4 x 3/4 | 100         |
| FRCS416 | 1/4 x 1   | 100         |



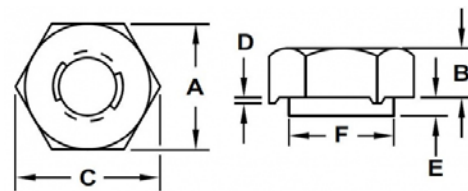


# HEX WELD NUTS

## HEX WELD NUTS

## TECHNICAL INFORMATION

### DIMENSIONS



| Size | Pilot | A                      | B         |       | D                 | E            | F              |
|------|-------|------------------------|-----------|-------|-------------------|--------------|----------------|
|      |       | Width Across the Flats | Thickness |       | Projection Height | Pilot Height | Pilot Diameter |
|      |       |                        | MAX       | MIN   | +/- .003          | +/- .005     | + .000/- .012  |
| #10  | SHORT | 1/2                    | 0.197     | 0.177 | 0.025             | 0.040        | 0.406          |
| 1/4  | LONG  | 1/2                    | 0.197     | 0.177 | 0.040             | 0.085        | 0.406          |
| 5/16 | LONG  | 9/16                   | 0.229     | 0.209 | 0.040             | 0.085        | 0.469          |
| 3/8  | LONG  | 5/8                    | 0.260     | 0.240 | 0.040             | 0.085        | 0.531          |
| 7/16 | LONG  | 3/4                    | 0.322     | 0.302 | 0.040             | 0.085        | 0.656          |
| 1/2  | LONG  | 13/16                  | 0.385     | 0.365 | 0.040             | 0.085        | 0.719          |
| 5/8  | LONG  | 15/16                  | 0.448     | 0.428 | 0.040             | 0.085        | 0.781          |

### LOCKING • LONG PILOT • PLAIN FINISH • MADE IN USA OR CANADA

Hex Weld Nuts make it easy to weld a nut to the parent material. The three uniform projections give reliable contact with the surface and the pilot accurately locates the threads in the pilot hole.

| Part #  | Size    | Farm Pack Qty | Package Qty | Bulk Qty |
|---------|---------|---------------|-------------|----------|
| FLNHW05 | 5/16-18 | 20            | 100         | -        |
| FLNHW06 | 3/8-16  | 20            | 100         | -        |
| FLNHW08 | 1/2-13  | 20            | 100         | 1000     |
| FLNHW10 | 5/8-11  | 10            | 50          | 600      |



### SHORT PILOT • PLAIN FINISH • MADE IN USA OR CANADA

| Part #  | Size   | Farm Pack Qty | Package Qty | Bulk Qty |
|---------|--------|---------------|-------------|----------|
| FHWN008 | #8-32  | 20            | 100         | -        |
| FHWN010 | #10-24 | 20            | 100         | 2500     |
| FHWN12  | 3/4-10 | 5             | 25          | 200      |



# HEX WELD NUTS, ROUND SPOT-WELD T NUTS (NO PROJECTIONS)

## LONG PILOT ▪ PLAIN FINISH ▪ MADE IN USA OR CANADA

| Part #  | Size    | Farm Pack Qty | Package Qty | Bulk Qty |
|---------|---------|---------------|-------------|----------|
| FHWNL04 | 1/4-20  | 20            | 100         | 2500     |
| FHWNL05 | 5/16-18 | 20            | 100         | 2500     |
| FHWNL06 | 3/8-16  | 20            | 100         | 2100     |
| FHWNL07 | 7/16-14 | 10            | 50          | 1000     |
| FHWNL08 | 1/2-13  | 10            | 50          | 800      |
| FHWNL10 | 5/8-11  | 5             | 25          | 500      |

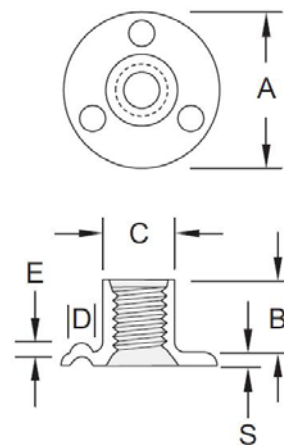


## SHORT PILOT ▪ STAINLESS STEEL ▪ MADE IN USA

| Part #   | Size    | Farm Pack Qty | Package Qty | Bulk Qty |
|----------|---------|---------------|-------------|----------|
| FSSHWN05 | 5/16-18 | 20            | 100         | -        |
| FSSHWN06 | 3/8-16  | 20            | 100         | 2000     |



## ROUND SPOT-WELD T NUTS (NO PROJECTIONS)



## TECHNICAL INFORMATION

### DIMENSIONS

| Size     | A               | S                | B             | C               |
|----------|-----------------|------------------|---------------|-----------------|
|          | Flange Diameter | Flange Thickness | Barrel Length | Barrel Diameter |
| +/- .015 |                 |                  |               |                 |
| #10      | 0.750           | 0.040            | 0.281         | 0.243           |
| 1/4      | 0.750           | 0.047            | 0.312         | 0.305           |
| 5/16     | 0.875           | 0.060            | 0.375         | 0.375           |
| 3/8      | 1.000           | 0.063            | 0.438         | 0.440           |

# ROUND SPOT-WELD T NUTS (NO PROJECTIONS), SLAB BASE T WELD NUTS, BOUBLE TAB SPOT-WELD NUTS (NO PROJECTIONS)

## PLAIN FINISH • MADE IN USA

Round Spot-weld T Nuts are a versatile weld nut that can be used in flush mount or through hole applications.

| Part #    | Size           | Farm Pack Qty | Package Qty | Bulk Qty |
|-----------|----------------|---------------|-------------|----------|
| FRSTNZ010 | #10-24 x 9/32* | 20            | 100         | -        |
| FRSTN04   | 1/4-20 x 5/16  | 20            | 100         | -        |
| FRSTN0407 | 1/4-20 x 7/16  | 20            | 100         | 5000     |
| FRSTN0414 | 1/4-20 x 7/8   | 20            | 100         | 3000     |
| FRSTN05   | 5/16-18 x 3/8  | 20            | 100         | 1000     |
| FRSTN06   | 3/8-16 x 7/16  | 20            | 100         | 2000     |
| FRSTN08   | 1/2-13 x 3/8   | 10            | 50          | 1000     |

\*Zinc Plated



## SLAB BASE T WELD NUTS

### PLAIN FINISH • MADE IN USA OR CANADA

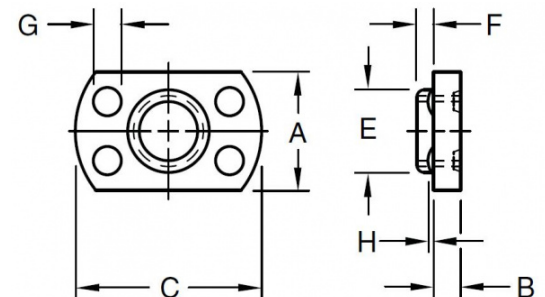
| Part # | Size   | Farm Pack Qty | Package Qty | Bulk Qty |
|--------|--------|---------------|-------------|----------|
| FSTN08 | 1/2-13 | 10            | 50          | 1000     |



## DOUBLE TAB SPOT-WELD NUTS (NO PROJECTIONS)

### TECHNICAL INFORMATION

### DIMENSIONS



| Size | A        | B         | C        | E              | F            |
|------|----------|-----------|----------|----------------|--------------|
|      | Width    | Thickness | Length   | Pilot Diameter | Pilot Height |
|      | +/- .015 | +/- .003  | +/- .015 | +/- .010       |              |
| 1/4  | 0.443    | 0.094     | 1.000    | 0.297          | 0.050        |
| 5/16 | 0.635    | 0.142     | 1.500    | 0.359          | 0.080        |
| 3/8  | 0.635    | 0.142     | 1.500    | 0.438          | 0.090        |

### PLAIN FINISH • MADE IN USA OR CANADA

Double Tab Spot-weld Nuts are designed for applications requiring additional strength where there is tension against the weld. The pilot speeds location and they can be used to bridge corners or recessed areas.

| Part # | Size    | Farm Pack Qty | Package Qty | Bulk Qty |
|--------|---------|---------------|-------------|----------|
| FTWN04 | 1/4-20  | 20            | 100         | 1000     |
| FTWN05 | 5/16-18 | 20            | 100         | 5000     |
| FTWN06 | 3/8-16  | 20            | 100         | 1000     |



## SQUARE WELD NUTS

### TECHNICAL INFORMATION

#### DIMENSIONS

| Size | Width Across Flats | Thickness | Pilot Height | Pilot Diameter |
|------|--------------------|-----------|--------------|----------------|
|      |                    | +/- .008  |              |                |
| 1/2  | 0.813              | 0.375     | 0.094        | 0.719          |
| 5/8  | 0.875              | 0.437     | 0.094        | 0.781          |

#### PLAIN FINISH • MADE IN USA

Square Weld Nuts were long a favorite weld nut. They feature four projections to ensure a strong reliable weld and a pilot for easy location.

| Part # | Size   | Farm Pack Qty | Package Qty | Bulk Qty |
|--------|--------|---------------|-------------|----------|
| FSWN06 | 3/8-16 | 20            | 100         | 500      |
| FSWN08 | 1/2-13 | 20            | 100         | 500      |
| FSWN10 | 5/8-11 | 20            | 100         | 500      |

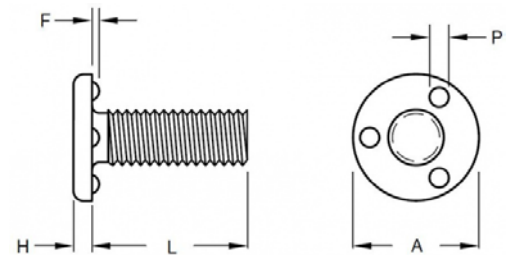


## THREE PROJECTION WELD SCREW

### TECHNICAL INFORMATION

#### DIMENSIONS

| Size | A             | H           | P                   | F                 |
|------|---------------|-------------|---------------------|-------------------|
|      | Head Diameter | Head Height | Projection Diameter | Projection Height |
| 1/4  | .575/.550     | .083/.073   | .105/.095           | .042/.038         |
| 5/16 | .755/.725     | .099/.089   | .125/.115           | .047/.043         |
| 3/8  | .880/.850     | .114/.104   | .135/.125           | .052/.048         |
| 1/2  | 1.005/.975    | .146/.136   | .155/.145           | .062/.058         |



## THREE PROJECTION WELD SCREW, EXTERNAL RETAINING RINGS

### 3 PROJECTIONS UNDER HEAD • PLAIN FINISH • MADE IN USA

Three Projection Weld Screws with projections under the head are intended for through hole applications. The projections are of the exact size to ensure optimum welds and through-hole use allows self locating. Length is measured under the head to the end of the screw.

| Part #    | Size            | Farm Pack Qty | Package Qty |     |
|-----------|-----------------|---------------|-------------|-----|
| FPWS0406  | 1/4-20 x 3/4*   | 20            | 100         |     |
| FPWS0408  | 1/4-20 x 1*     | 20            | 100         |     |
| FPWS30506 | 5/16-18 x 3/4   | 20            | 100         | -   |
| FPWS0508  | 5/16-18 x 1*    | 20            | 100         |     |
| FPWS30514 | 5/16-18 x 1-3/4 | 20            | 100         | -   |
| FPWS30614 | 3/8-16 x 1-3/4  | 20            | 100         | 500 |
| FPWS30808 | 1/2-13 x 1      | 20            | 100         | -   |

\*These are stocked in ring projection weld screws. The ring projection is also under the head for through-hole applications and features some extra weld strength as well as sealing off the hole.



### 3 PROJECTIONS UNDER HEAD • 304 STAINLESS STEEL • MADE IN USA

| Part #      | Size         | Farm Pack Qty | Package Qty | Bulk Qty |
|-------------|--------------|---------------|-------------|----------|
| FSSPWS30406 | 1/4-20 x 3/4 | 20            | 100         | 1000     |



## EXTERNAL RETAINING RINGS

### PHOSPHATE COATED SPRING STEEL • MADE IN USA

External Retaining Rings are installed into a groove on a shaft to create a shoulder that retains an assembly on the shaft. The size is given as the shaft size the ring is used on. The free ID is the ring ID before it is installed.



| Part #  | Size  | Free ID | Thickness | Discount Qty | Part # | Size   | Free ID | Thickness | Discount Qty |
|---------|-------|---------|-----------|--------------|--------|--------|---------|-----------|--------------|
| FRRE035 | 7/32  | 0.200   | 0.015     | 100          | FRRE13 | 13/16  | 0.751   | 0.044     | 100          |
| FRRE04  | 1/4   | 0.225   | 0.025     | 100          | FRRE14 | 7/8    | 0.810   | 0.045     | 100          |
| FRRE05  | 5/16  | 0.281   | 0.026     | 100          | FRRE15 | 15/16  | 0.867   | 0.046     | 100          |
| FRRE06  | 3/8   | 0.338   | 0.027     | 100          | FRRE16 | 1      | 0.925   | 0.047     | 100          |
| FRRE07  | 7/16  | 0.395   | 0.028     | 100          | FRRE17 | 1-1/16 | 0.982   | 0.050     | 100          |
| FRRE08  | 1/2   | 0.461   | 0.035     | 100          | FRRE18 | 1-1/8  | 1.041   | 0.051     | 100          |
| FRRE551 | .551  | 0.509   | 0.035     | 100          | FRRE19 | 1-3/16 | 1.098   | 0.052     | 100          |
| FRRE09  | 9/16  | 0.521   | 0.036     | 100          | FRRE20 | 1-1/4  | 1.156   | 0.053     | 100          |
| FRRE10  | 5/8   | 0.579   | 0.037     | 100          | FRRE21 | 1-5/16 | 1.214   | 0.054     | 100          |
| FRRE11  | 11/16 | 0.635   | 0.042     | 100          | FRRE22 | 1-3/8  | 1.272   | 0.055     | 100          |
| FRRE12  | 3/4   | 0.693   | 0.043     | 100          | FRRE23 | 1-7/16 | 1.333   | 0.056     | 100          |

## PHOSPHATE COATED SPRING STEEL • MADE IN USA

| Part # | Size   | Free ID | Thickness | Discount Qty | Part # | Size  | Free ID | Thickness | Discount Qty |
|--------|--------|---------|-----------|--------------|--------|-------|---------|-----------|--------------|
| FRRE24 | 1-1/2  | 1.387   | 0.057     | 100          | FRRE34 | 2-1/8 | 1.960   | 0.078     | 100          |
| FRRE25 | 1-9/16 | 1.446   | 0.062     | 100          | FRRE36 | 2-1/4 | 2.081   | 0.078     | 100          |
| FRRE26 | 1-5/8  | 1.503   | 0.062     | 100          | FRRE38 | 2-3/8 | 2.197   | 0.078     | 100          |
| FRRE28 | 1-3/4  | 1.618   | 0.062     | 100          | FRRE40 | 2-1/2 | 2.313   | 0.078     | 100          |
| FRRE30 | 1-7/8  | 1.735   | 0.062     | 100          | FRRE44 | 2-3/4 | 2.543   | 0.093     | 100          |
| FRRE32 | 2      | 1.850   | 0.062     | 100          | FRRE48 | 3     | 2.775   | 0.093     | 100          |

## STAINLESS STEEL • MADE IN USA

| Part #   | Size | Free ID | Thickness | Discount Qty |
|----------|------|---------|-----------|--------------|
| FSSRRE08 | 1/2  | 0.461   | 0.035     | 100          |



## INTERNAL RETAINING RINGS

## PHOSPHATE COATED SPRING STEEL • MADE IN USA

Internal Retaining Rings are installed into a groove in a housing to create a shoulder that retains an assembly in the housing. The size is given as the housing ID the ring is used on. The free OD is the ring OD before it is installed.



| Part #  | Size   | Free ID | Thickness | Discount Qty | Part #  | Size    | Free ID | Thickness | Discount Qty |
|---------|--------|---------|-----------|--------------|---------|---------|---------|-----------|--------------|
| FRRIO4  | 1/4    | 0.280   | 0.015     | 100          | FRRRI21 | 1-5/16  | 1.456   | 0.050     | 100          |
| FRRIO5  | 5/16   | 0.346   | 0.015     | 100          | FRRRI22 | 1-3/8   | 1.526   | 0.050     | 100          |
| FRRIO6  | 3/8    | 0.415   | 0.025     | 100          | FRRRI23 | 1-7/16  | 1.596   | 0.050     | 100          |
| FRRIO7  | 7/16   | 0.482   | 0.025     | 100          | FRRRI24 | 1-1/2   | 1.660   | 0.050     | 100          |
| FRRIO8  | 1/2    | 0.548   | 0.035     | 100          | FRRRI25 | 1-9/16  | 1.734   | 0.062     | 100          |
| FRRIO9  | 9/16   | 0.620   | 0.035     | 100          | FRRRI26 | 1-5/8   | 1.804   | 0.062     | 100          |
| FRRIO10 | 5/8    | 0.694   | 0.035     | 100          | FRRRI28 | 1-3/4   | 1.942   | 0.062     | 100          |
| FRRIO11 | 11/16  | 0.763   | 0.035     | 100          | FRRRI30 | 1-7/8   | 2.072   | 0.062     | 100          |
| FRRIO12 | 3/4    | 0.831   | 0.035     | 100          | FRRRI31 | 1-15/16 | 2.141   | 0.062     | 100          |
| FRRIO13 | 13/16  | 0.901   | 0.042     | 100          | FRRRI32 | 2       | 2.210   | 0.062     | 100          |
| FRRIO14 | 7/8    | 0.971   | 0.042     | 100          | FRRRI34 | 2-1/8   | 2.350   | 0.078     | 100          |
| FRRIO15 | 15/16  | 1.041   | 0.042     | 100          | FRRRI35 | 2-3/16  | 2.415   | 0.078     | 100          |
| FRRIO16 | 1      | 1.111   | 0.042     | 100          | FRRRI36 | 2-1/4   | 2.490   | 0.078     | 100          |
| FRRIO17 | 1-1/16 | 1.180   | 0.050     | 100          | FRRRI40 | 2-1/2   | 2.775   | 0.078     | 100          |
| FRRIO18 | 1-1/8  | 1.249   | 0.050     | 100          | FRRRI44 | 2-3/4   | 3.050   | 0.093     | 100          |
| FRRIO19 | 1-3/16 | 1.319   | 0.050     | 100          | FRRRI48 | 3       | 3.325   | 0.093     | 100          |
| FRRIO20 | 1-1/4  | 1.388   | 0.050     | 100          | FRRRI52 | 3-1/4   | 3.623   | 0.109     | 100          |

## E-CLIPS, PUSHNUT RETAINERS

### E-CLIPS

#### PHOSPHATE COATED • SPRING STEEL • MADE IN USA

E-Clips are installed into a groove on a shaft to create a shoulder that retains an assembly on the shaft. The size is given as the shaft size the ring is used on. The free ID is the ring ID before it is installed.



| Part # | Size | Free ID | Thickness | Discount Qty | Part # | Size | Free ID | Thickness | Discount Qty |
|--------|------|---------|-----------|--------------|--------|------|---------|-----------|--------------|
| FEC025 | 5/32 | 0.114   | .025      | 100          | FEC08  | 1/2  | 0.392   | .042      | 100          |
| FEC03  | 3/16 | 0.145   | .025      | 100          | FEC09  | 9/16 | 0.430   | .042      | 100          |
| FEC04  | 1/4  | 0.207   | .025      | 100          | FEC10  | 5/8  | 0.480   | .042      | 100          |
| FEC05  | 5/16 | 0.243   | .025      | 100          | FEC12  | 3/4  | 0.574   | .050      | 100          |
| FEC06  | 3/8  | 0.300   | .035      | 100          | FEC14  | 7/8  | 0.668   | .050      | 100          |
| FEC07  | 7/16 | 0.337   | .035      | 100          | FEC16  | 1    | 0.822   | .050      | 100          |

### PUSHNUT RETAINERS

#### ZINC OR PHOSPHATE & OIL COATED • MADE IN USA

Pushnut Retainers provide a quick, easy way to hold a threaded fastener in place.

| Part #   | Size | OD    | Package Qty |
|----------|------|-------|-------------|
| AV16852  | #10  | 7/16  | 100         |
| AV10086  | 1/4  | 1/2   | 100         |
| AV10087  | 5/16 | 5/8   | 100         |
| AV09299B | 1/2  | 15/16 | 100         |



#### WITH BLACK PLASTIC CAP

| Part #  | Size | OD    | Height | Package Qty |
|---------|------|-------|--------|-------------|
| FPNPB03 | 3/16 | 0.656 | 0.344  | 100         |
| FPNPB10 | 5/8  | 1.300 | 0.645  | 25          |
| FPNPB12 | 3/4  | 1.300 | 0.750  | 25          |



# CAP TYPE PUSH-ON RETAINERS, PUSH ON RETAINER FOR 1/4" STUD, ADJUSTABLE YOKE ENDS, HINGES

## CAP TYPE PUSH-ON RETAINERS

ZINC PLATED • MADE IN USA

Cap Type Push-On Retainers give a finished appearance to an assembly.

| Part #  | Size | Washer OD | Cap Height | Package Qty |
|---------|------|-----------|------------|-------------|
| AV14170 | 1/4  | 1/2       | 0.205      | 100         |
| AV14171 | 5/16 | 5/8       | 0.236      | 100         |
| AV08719 | 3/8  | 11/16     | 0.419      | 100         |
| AV08665 | 1/2  | 15/16     | 0.328      | 100         |
| AV14174 | 5/8  | 1-3/16    | 0.693      | 50          |



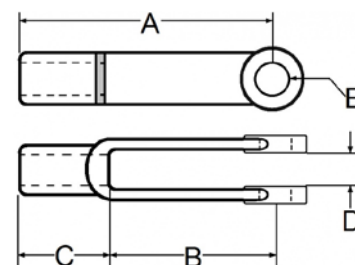
## PUSH ON RETAINER FOR 1/4" STUD

| Part #  | Size | Washer OD | Package Qty |
|---------|------|-----------|-------------|
| AV08868 | 1/4  | 17/32     | 100         |

## ADJUSTABLE YOKE ENDS

FINE THREAD • ZINC PLATED • MADE IN USA

### DIMENSIONS



| Size   | A     | B     | C     | D    | E   |
|--------|-------|-------|-------|------|-----|
| 3/8-24 | 2 1/2 | 1 5/8 | 7/8   | 7/16 | 3/8 |
| 1/2-20 | 3     | 1 7/8 | 1 1/8 | 9/16 | 1/2 |

FINE THREAD • ZINC PLATED • MADE IN USA

| Part #         | Size   | Package Qty |
|----------------|--------|-------------|
| EQBPB27084AZ   | 3/8-24 | 20          |
| EQBPB27086ANFZ | 1/2-20 | 100         |



## HINGES

KNUCKLE CONTINUOUS HINGES • STEEL MILL FINISH

| Part #    | Length | Width | Thickness | Pin Width | Package Qty | Bulk Qty |
|-----------|--------|-------|-----------|-----------|-------------|----------|
| EQHS92021 | 72     | 2     | .090      | 1/4       | 5           | 50       |





STRUTS, NYLON PUSH-IN RETAINERS

BUTT HINGES • ZINC PLATED

| Part #    | Length | Width | Thickness | Pin Diameter | Package Qty | Bulk Qty |
|-----------|--------|-------|-----------|--------------|-------------|----------|
| EQHBH7030 | 3      | 2     | 0.071     | 0.187        | 25          | 100      |



STRUTS

STRUT FRAMING CHANNEL

| Part #          | Gauge | Thickness | Width | Height | Length |
|-----------------|-------|-----------|-------|--------|--------|
| EQFS200         | 12    | .098      | 1-5/8 | 1-5/8  | 10'    |
| EQFS200SSST410* | 12    | .098      | 1-5/8 | 1-5/8  | 10'    |

\*Stainless Steel



NYLON PUSH-IN RETAINERS

BLACK • MADE IN USA

| Part #  | Stem Diameter | Stem Length | Head OD | Package Qty |
|---------|---------------|-------------|---------|-------------|
| AV15414 | 5/16          | 13/16       | 11/16   | 100         |



BLACK • IMPORT

| Part #  | Head OD | Stem Length | Hole Size | Package Qty |
|---------|---------|-------------|-----------|-------------|
| AV17216 | 20mm    | 20mm        | 8mm       | 25          |



YELLOW • IMPORT

| Part #   | Stem Diameter | Stem Length | Head OD | Package Qty |
|----------|---------------|-------------|---------|-------------|
| AV18848B | 3/8           | 11/16       | 3/4     | 1000        |



MILLIMETER EQUIVALENTS IN INCHES

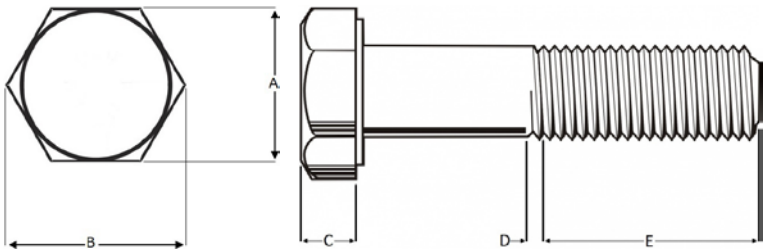
| Metric Size | Inch Equivalents | Metric Size | Inch Equivalents | Metric Size | Inch Equivalents | Metric Size | Inch Equivalents |
|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|
| M3          | 0.1181           | M7          | 0.2756           | M16         | 0.6299           | M27         | 1.063            |
| M3.5        | 0.1378           | M8          | 0.315            | M18         | 0.7087           | M30         | 1.1811           |
| M4          | 0.1575           | M10         | 0.3937           | M20         | 0.7874           |             |                  |
| M5          | 0.1969           | M12         | 0.4724           | M22         | 0.8661           |             |                  |
| M6          | 0.2362           | M14         | 0.5512           | M24         | 0.9449           |             |                  |

METRIC HEX CAP SCREWS

TECHNICAL INFORMATION

ROCKWELL HARDNESS

| Class      | Size            | Hardness Rockwell |
|------------|-----------------|-------------------|
| CLASS 8.8  | UP TO M16       | C22-C32           |
| CLASS 8.8  | LARGER THAN M16 | C23-C34           |
| CLASS 10.9 | ALL             | C32-C39           |



DIMENSIONS

| Size | A                      | B                        | C           | D                          |                           |
|------|------------------------|--------------------------|-------------|----------------------------|---------------------------|
|      | Width Across the Flats | Width Across the Corners | Head Height | Thread Length up to 125 MM | Thread Length over 125 MM |
| M4   | 7                      | 7.66                     | 2.8         | 14                         | -                         |
| M5   | 8                      | 8.79                     | 3.5         | 16                         | -                         |
| M6   | 10                     | 11.05                    | 4           | 18                         | -                         |
| M7   | 11                     | 12.12                    | 4.8         | 20                         | -                         |
| M8   | 13                     | 14.38                    | 5.3         | 22                         | -                         |
| M10  | 16*                    | 17.77*                   | 6.4         | 26                         | -                         |
| M12  | 18*                    | 20.03*                   | 7.5         | 30                         | -                         |
| M14  | 21*                    | 23.36*                   | 8.8         | 34                         | 40                        |
| M16  | 24                     | 26.75                    | 10          | 38                         | 44                        |
| M18  | 27                     | 30.14                    | 11.5        | 42                         | 48                        |
| M20  | 30                     | 33.53                    | 12.5        | 46                         | 52                        |
| M24  | 36                     | 39.98                    | 15          | 54                         | 60                        |
| M30  | 46                     | 50.85                    | 18.7        | 72                         | 85                        |

COMMON METRIC THREAD PITCHES

| Coarse    | Fine     | Extra Fine |
|-----------|----------|------------|
| M2-0.4    | -        | -          |
| M2.5-0.45 | -        | -          |
| M3-0.5    | -        | -          |
| M4-0.7    | -        | -          |
| M5-0.8    | -        | -          |
| M6-1.0    | -        | -          |
| M8-1.25   | M8-1.0   | -          |
| M10-1.5   | M10-1.25 | M10-1.0    |
| M12-1.75  | M12-1.5  | M12-1.25   |
| M14-2.0   | M14-1.5  | -          |
| M16-2.0   | M16-1.5  | -          |
| M18-2.5   | M18-1.5  | -          |
| M20-2.5   | M20-1.5  | -          |
| M22-2.5   | M22-1.5  | -          |
| M24-3.0   | M24-2.0  | -          |

# METRIC HEX CAP SCREWS

## CLASS 8.8 • COARSE THREAD • ZINC PLATED • MADE IN CANADA OR IMPORTED

Hex Cap Screws Class 8.8 are manufactured to ISO, DIN, or ANSI specs. They are basically an equivalent of grade 5 in inch sizes.



| Part #    | Size         | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #    | Size         | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-----------|--------------|---------------|---------------|----------|-----------|--------------|---------------|---------------|----------|
| FMH804010 | M4-0.70 x 10 | 20            | 100           | 10000    | FMH806035 | M6-1.00 x 35 | 20            | 100           | 1900     |
| FMH804012 | M4-0.70 x 12 | 20            | 100           | -        | FMH806040 | M6-1.00 x 40 | 20            | 100           | 1750     |
| FMH804016 | M4-0.70 x 16 | 20            | 100           | 8000     | FMH806045 | M6-1.00 x 45 | 20            | 100           | 1600     |
| FMH804020 | M4-0.70 x 20 | 20            | 100           | 7000     | FMH806050 | M6-1.00 x 50 | 20            | 100           | 1400     |
| FMH804025 | M4-0.70 x 25 | 20            | 100           | 6000     | FMH806055 | M6-1.00 x 55 | 20            | 100           | 1400     |
| FMH804030 | M4-0.70 x 30 | 20            | 100           | 5000     | FMH806060 | M6-1.00 x 60 | 20            | 100           | 1200     |
| FMH804035 | M4-0.70 x 35 | 20            | 100           | -        | FMH806065 | M6-1.00 x 65 | 20            | 100           | 1000     |
| FMH804040 | M4-0.70 x 40 | 20            | 100           | 4700     | FMH806070 | M6-1.00 x 70 | 20            | 100           | 1100     |
| FMH805008 | M5-0.80 x 8  | 20            | 100           | -        | FMH806075 | M6-1.00 x 75 | 20            | 100           | 1185     |
| FMH805010 | M5-0.80 x 10 | 20            | 100           | 7000     | FMH806080 | M6-1.00 x 80 | 20            | 100           | 1100     |
| FMH805012 | M5-0.80 x 12 | 20            | 100           | 5000     | FMH806085 | M6-1.00 x 85 | 10            | 50            | -        |
| FMH805016 | M5-0.80 x 16 | 20            | 100           | 5400     | FMH807012 | M7-1.0 x 12  | 20            | 100           | 2500     |
| FMH805020 | M5-0.80 x 20 | 20            | 100           | 4700     | FMH807016 | M7-1.0 x 16  | 20            | 100           | -        |
| FMH805025 | M5-0.80 x 25 | 20            | 100           | 4800     | FMH807020 | M7-1.00 x 20 | 20            | 100           | 2000     |
| FMH805030 | M5-0.80 x 30 | 20            | 100           | 3300     | FMH807025 | M7-1.0 x 25  | 20            | 100           | 1800     |
| FMH805035 | M5-0.80 x 35 | 20            | 100           | 2900     | FMH807030 | M7-1.00 x 30 | 20            | 100           | 1600     |
| FMH805040 | M5-0.80 x 40 | 20            | 100           | 3000     | FMH807040 | M7-1.00 x 40 | 20            | 100           | 1200     |
| FMH805045 | M5-0.80 x 45 | 20            | 100           | 2400     | FMH807055 | M7-1.0 x 55  | 10            | 50            | -        |
| FMH805050 | M5-0.80 x 50 | 20            | 100           | -        | FMH807060 | M7-1.0 x 60  | 10            | 50            | -        |
| FMH805060 | M5-0.80 x 60 | 20            | 100           | 1900     | FMH808010 | M8-1.25 x 10 | 20            | 100           | -        |
| FMH805065 | M5-0.80 x 65 | 20            | 100           | -        | FMH808012 | M8-1.25 x 12 | 20            | 100           | -        |
| FMH805080 | M5-0.80 x 80 | 20            | 100           | -        | FMH808016 | M8-1.25 x 16 | 20            | 100           | 1700     |
| FMH806008 | M6-1.00 x 8  | 20            | 100           | 4000     | FMH808020 | M8-1.25 x 20 | 20            | 100           | 1500     |
| FMH806010 | M6-1.00 x 10 | 20            | 100           | 4000     | FMH808025 | M8-1.25 x 25 | 20            | 100           | 1350     |
| FMH806012 | M6-1.00 x 12 | 20            | 100           | 3500     | FMH808030 | M8-1.25 x 30 | 20            | 100           | 1150     |
| FMH806014 | M6-1.00 x 14 | 20            | 100           | -        | FMH808035 | M8-1.25 x 35 | 20            | 100           | 1000     |
| FMH806016 | M6-1.00 x 16 | 20            | 100           | 3000     | FMH808040 | M8-1.25 x 40 | 20            | 100           | 925      |
| FMH806018 | M6-1.00 x 18 | 20            | 100           | -        | FMH808045 | M8-1.25 x 45 | 20            | 100           | 850      |
| FMH806020 | M6-1.00 x 20 | 20            | 100           | 3000     | FMH808050 | M8-1.25 x 50 | 10            | 50            | 750      |
| FMH806025 | M6-1.00 x 25 | 20            | 100           | 2500     | FMH808055 | M8-1.25 x 55 | 10            | 50            | 750      |
| FMH806030 | M6-1.00 x 30 | 20            | 100           | 2200     | FMH808060 | M8-1.25 x 60 | 10            | 50            | 650      |

## CLASS 8.8 • COARSE THREAD • ZINC PLATED • MADE IN CANADA OR IMPORTED

| Part #    | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #    | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-----------|----------------|---------------|---------------|----------|-----------|----------------|---------------|---------------|----------|
| FMH808065 | M8-1.25 x 65   | 10            | 50            | 650      | FMH812080 | M12-1.75 x 80  | 5             | 25            | 200      |
| FMH808070 | M8-1.25 x 70   | 10            | 50            | 550      | FMH812090 | M12-1.75 x 90  | 5             | 25            | 175      |
| FMH808075 | M8-1.25 x 75   | 10            | 50            | 550      | FMH812100 | M12-1.75 x 100 | 5             | 25            | 175      |
| FMH808080 | M8-1.25 x 80   | 10            | 50            | 500      | FMH812110 | M12-1.75 x 110 | 5             | 25            | -        |
| FMH808090 | M8-1.25 x 90   | 10            | 50            | 450      | FMH812120 | M12-1.75 x 120 | 5             | 25            | 150      |
| FMH808100 | M8-1.25 x 100  | 10            | 50            | 400      | FMH812130 | M12-1.75 x 130 | 5             | 25            | 150      |
| FMH808120 | M8-1.25 x 120  | 5             | 25            | 350      | FMH812150 | M12-1.75 x 150 | 5             | 25            | 125      |
| FMH808140 | M8-1.25 x 140  | 10            | 50            | -        | FMH814020 | M14-2.00 x 20  | 5             | 25            | -        |
| FMH810010 | M10-1.50 x 10  | 10            | 50            | -        | FMH814025 | M14-2.00 x 25  | 5             | 25            | -        |
| FMH810012 | M10-1.50 x 12  | 10            | 50            | -        | FMH814030 | M14-2.00 x 30  | 5             | 25            | 325      |
| FMH810016 | M10-1.50 x 16  | 10            | 50            | 950      | FMH814035 | M14-2.00 x 35  | 5             | 25            | -        |
| FMH810020 | M10-1.50 x 20  | 10            | 50            | 850      | FMH814040 | M14-2.00 x 40  | 5             | 25            | 275      |
| FMH810025 | M10-1.50 x 25  | 10            | 50            | 750      | FMH814045 | M14-2.00 x 45  | 5             | 25            | 250      |
| FMH810030 | M10-1.50 x 30  | 10            | 50            | 700      | FMH814050 | M14-2.00 x 50  | 5             | 25            | 200      |
| FMH810035 | M10-1.50 x 35  | 10            | 50            | 600      | FMH814060 | M14-2.00 x 60  | 5             | 25            | 200      |
| FMH810040 | M10-1.50 x 40  | 10            | 50            | 550      | FMH814070 | M14-2.00 x 70  | 5             | 25            | 175      |
| FMH810045 | M10-1.50 x 45  | 10            | 50            | 500      | FMH814075 | M14-2.00 x 75  | 5             | 25            | -        |
| FMH810050 | M10-1.50 x 50  | 10            | 50            | 450      | FMH814080 | M14-2.00 x 80  | 5             | 25            | 150      |
| FMH810055 | M10-1.50 x 55  | 10            | 50            | 450      | FMH814100 | M14-2.00 x 100 | 5             | 25            | 125      |
| FMH810060 | M10-1.50 x 60  | 10            | 50            | 400      | FMH816025 | M16-2.00 x 25  | 5             | 25            | -        |
| FMH810065 | M10-1.50 x 65  | 10            | 50            | 350      | FMH816030 | M16-2.00 x 30  | 5             | 25            | 225      |
| FMH810070 | M10-1.50 x 70  | 10            | 50            | 350      | FMH816040 | M16-2.00 x 40  | 5             | 25            | 200      |
| FMH810075 | M10-1.50 x 75  | 10            | 50            | 300      | FMH816045 | M16-2.00 x 45  | 5             | 25            | 175      |
| FMH810080 | M10-1.50 x 80  | 5             | 25            | 300      | FMH816050 | M16-2.00 x 50  | 5             | 25            | 165      |
| FMH810090 | M10-1.50 x 90  | 5             | 25            | 250      | FMH816060 | M16-2.00 x 60  | 5             | 25            | 150      |
| FMH810100 | M10-1.50 x 100 | 5             | 25            | 250      | FMH816070 | M16-2.00 x 70  | 5             | 25            | 125      |
| FMH810120 | M10-1.50 x 120 | 5             | 25            | 200      | FMH816080 | M16-2.00 x 80  | 4             | 20            | 110      |
| FMH812016 | M12-1.75 x 16  | 10            | 50            | -        | FMH816090 | M16-2.00 x 90  | 4             | 20            | 100      |
| FMH812020 | M12-1.75 x 20  | 10            | 50            | 600      | FMH816100 | M16-2.00 x 100 | 4             | 20            | 95       |
| FMH812025 | M12-1.75 x 25  | 10            | 50            | 500      | FMH816110 | M16-2.00 x 110 | 4             | 20            | -        |
| FMH812030 | M12-1.75 x 30  | 10            | 50            | 450      | FMH816120 | M16-2.00 x 120 | 4             | 20            | 80       |
| FMH812035 | M12-1.75 x 35  | 10            | 50            | 400      | FMH816130 | M16-2.00 x 130 | 4             | 20            | -        |
| FMH812040 | M12-1.75 x 40  | 10            | 50            | 370      | FMH816150 | M16-2.00 x 150 | 4             | 20            | 70       |
| FMH812045 | M12-1.75 x 45  | 10            | 50            | 325      | FMH820040 | M20-2.50 x 40  | 4             | 20            | 110      |
| FMH812050 | M12-1.75 x 50  | 10            | 50            | 300      | FMH820050 | M20-2.50 x 50  | 4             | 20            | 100      |
| FMH812055 | M12-1.75 x 55  | 10            | 50            | 275      | FMH820060 | M20-2.50 x 60  | 4             | 20            | 90       |
| FMH812060 | M12-1.75 x 60  | 10            | 50            | 260      | FMH820070 | M20-2.50 x 70  | 4             | 20            | 70       |
| FMH812065 | M12-1.75 x 65  | 10            | 50            | 250      | FMH820080 | M20-2.50 x 80  | 4             | 20            | 70       |
| FMH812070 | M12-1.75 x 70  | 10            | 50            | 225      | FMH820100 | M20-2.50 x 100 | 4             | 20            | 60       |
| FMH812075 | M12-1.75 x 75  | 10            | 50            | 225      | FMH822070 | M22-2.50 x 70  | 2             | 10            | -        |

# METRIC HEX CAP SCREWS

## CLASS 10.9 ▪ COARSE THREAD ▪ ZINC PLATED ▪ MADE IN USA OR IMPORTED

Hex Cap Screws Class 10.9 are manufactured to ISO, DIN, or ANSI specs. They are basically an equivalent of grade 8 in strength.



| Part #    | Size          | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #    | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-----------|---------------|---------------|---------------|----------|-----------|----------------|---------------|---------------|----------|
| FMH006010 | M6-1.00 x 10  | 20            | 100           | 5000     | FMH010025 | M10-1.50 x 25  | 10            | 50            | 750      |
| FMH006012 | M6-1.00 x 12  | 20            | 100           | 5000     | FMH010030 | M10-1.50 x 30  | 10            | 50            | 700      |
| FMH006016 | M6-1.00 x 16  | 20            | 100           | 4000     | FMH010035 | M10-1.50 x 35  | 10            | 50            | 600      |
| FMH006020 | M6-1.00 x 20  | 20            | 100           | 3000     | FMH010040 | M10-1.50 x 40  | 10            | 50            | 550      |
| FMH006025 | M6-1.00 x 25  | 20            | 100           | 2500     | FMH010045 | M10-1.50 x 45  | 10            | 50            | -        |
| FMH006030 | M6-1.00 x 30  | 20            | 100           | 2200     | FMH010050 | M10-1.50 x 50  | 10            | 50            | 450      |
| FMH006035 | M6-1.00 x 35  | 20            | 100           | 1900     | FMH010055 | M10-1.50 x 55  | 10            | 50            | 450      |
| FMH006040 | M6-1.00 x 40  | 20            | 100           | 1750     | FMH010060 | M10-1.50 x 60  | 10            | 50            | 400      |
| FMH006050 | M6-1.00 x 50  | 20            | 100           | 1400     | FMH010065 | M10-1.50 x 65  | 10            | 50            | 350      |
| FMH006060 | M6-1.00 x 60  | 20            | 100           | 1200     | FMH010070 | M10-1.50 x 70  | 10            | 50            | 350      |
| FMH006070 | M6-1.00 x 70  | 20            | 100           | 900      | FMH010080 | M10-1.50 x 80  | 5             | 25            | 300      |
| FMH006080 | M6-1.00 x 80  | 10            | 50            | 800      | FMH010090 | M10-1.50 x 90  | 5             | 25            | 250      |
| FMH006090 | M6-1.00 x 90  | 5             | 25            | 700      | FMH010100 | M10-1.50 x 100 | 5             | 25            | 250      |
| FMH006100 | M6-1.00 x 100 | 5             | 25            | 500      | FMH010110 | M10-1.50 x 110 | 5             | 25            | 200      |
| FMH008016 | M8-1.25 x 16  | 20            | 100           | 1700     | FMH010120 | M10-1.50 x 120 | 5             | 25            | 250      |
| FMH008020 | M8-1.25 x 20  | 20            | 100           | 1500     | FMH010130 | M10-1.50 x 130 | 5             | 25            | 200      |
| FMH008025 | M8-1.25 x 25  | 20            | 100           | 1350     | FMH010150 | M10-1.50 x 150 | 5             | 25            | -        |
| FMH008030 | M8-1.25 x 30  | 20            | 100           | 1150     | FMH010160 | M10-1.50 x 160 | 5             | 25            | -        |
| FMH008035 | M8-1.25 x 35  | 20            | 100           | 1000     | FMH012020 | M12-1.75 x 20  | 10            | 50            | 600      |
| FMH008040 | M8-1.25 x 40  | 20            | 100           | 925      | FMH012025 | M12-1.75 x 25  | 10            | 50            | 500      |
| FMH008045 | M8-1.25 x 45  | 20            | 100           | -        | FMH012030 | M12-1.75 x 30  | 10            | 50            | 450      |
| FMH008050 | M8-1.25 x 50  | 10            | 50            | 750      | FMH012035 | M12-1.75 x 35  | 10            | 50            | 400      |
| FMH008055 | M8-1.25 x 55  | 10            | 50            | 700      | FMH012040 | M12-1.75 x 40  | 10            | 50            | 370      |
| FMH008060 | M8-1.25 x 60  | 10            | 50            | 650      | FMH012045 | M12-1.75 x 45  | 10            | 50            | 325      |
| FMH008070 | M8-1.25 x 70  | 10            | 50            | 550      | FMH012050 | M12-1.75 x 50  | 10            | 50            | 300      |
| FMH008075 | M8-1.25 x 75  | 10            | 50            | 550      | FMH012060 | M12-1.75 x 60  | 10            | 50            | 260      |
| FMH008080 | M8-1.25 x 80  | 10            | 50            | 550      | FMH012065 | M12-1.75 x 65  | 10            | 50            | 250      |
| FMH008090 | M8-1.25 x 90  | 10            | 50            | 450      | FMH012070 | M12-1.75 x 70  | 10            | 50            | 225      |
| FMH008100 | M8-1.25 x 100 | 10            | 50            | 400      | FMH012080 | M12-1.75 x 80  | 5             | 25            | 200      |
| FMH008120 | M8-1.25 x 120 | 5             | 25            | 350      | FMH012090 | M12-1.75 x 90  | 5             | 25            | 175      |
| FMH010012 | M10-1.50 x 12 | 10            | 50            | -        | FMH012100 | M12-1.75 x 100 | 5             | 25            | 175      |
| FMH010016 | M10-1.50 x 16 | 10            | 50            | 950      | FMH012110 | M12-1.75 x 110 | 5             | 25            | 150      |
| FMH010020 | M10-1.50 x 20 | 10            | 50            | 850      | FMH012120 | M12-1.75 x 120 | 5             | 25            | 150      |

## CLASS 10.9 • COARSE THREAD • ZINC PLATED • MADE IN USA OR IMPORTED

| Part #     | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #    | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|------------|----------------|---------------|---------------|----------|-----------|----------------|---------------|---------------|----------|
| FMH012140  | M12-1.75 x 140 | 5             | 25            | 125      | FMH016200 | M16-2.00 x 200 | -             | 5             | 50       |
| FMH014020  | M14-2.00 x 20  | 5             | 25            | -        | FMH018040 | M18-2.50 x 40  | 5             | 25            | 150      |
| FMH014030  | M14-2.00 x 30  | 5             | 25            | 300      | FMH018050 | M18-2.50 x 50  | 5             | 25            | 125      |
| FMH014040  | M14-2.00 x 40  | 5             | 25            | 300      | FMH018060 | M18-2.50 x 60  | 5             | 25            | 100      |
| FMH014050  | M14-2.00 x 50  | 5             | 25            | 250      | FMH018070 | M18-2.50 x 70  | 5             | 25            | 90       |
| FMH014060  | M14-2.00 x 60  | 5             | 25            | 200      | FMH018080 | M18-2.50 x 80  | 2             | 10            | 90       |
| FMH014070  | M14-2.00 x 70  | 5             | 25            | 200      | FMH018100 | M18-2.50 x 100 | 2             | 10            | 75       |
| FMH014080  | M14-2.00 x 80  | 5             | 25            | 150      | FMH020040 | M20-2.50 x 40  | 4             | 20            | 110      |
| FMH014090  | M14-2.00 x 90  | 5             | 25            | 150      | FMH020050 | M20-2.50 x 50  | 4             | 20            | 100      |
| FMH014100  | M14-2.00 x 100 | 5             | 25            | 125      | FMH020060 | M20-2.50 x 60  | 4             | 20            | 90       |
| FMH014120  | M14-2.00 x 120 | 5             | 25            | 100      | FMH020070 | M20-2.50 x 70  | 4             | 20            | 80       |
| FMH014140  | M14-2.00 x 140 | 5             | 25            | 100      | FMH020080 | M20-2.50 x 80  | 4             | 20            | 70       |
| FMH014160  | M14-2.00 x 160 | -             | 5             | -        | FMH020090 | M20-2.50 x 90  | 4             | 20            | -        |
| FMH014180  | M14-2.00 x 180 | -             | 5             | -        | FMH020100 | M20-2.50 x 100 | 4             | 20            | 60       |
| FMH014200Y | M14-2.00 x 200 | -             | 5             | -        | FMH020110 | M20-2.50 x 110 | 2             | 10            | 55       |
| FMH016030  | M16-2.00 x 30  | 5             | 25            | 225      | FMH020120 | M20-2.50 x 120 | 2             | 10            | 50       |
| FMH016040  | M16-2.00 x 40  | 5             | 25            | 200      | FMH020140 | M20-2.50 x 140 | 2             | 10            | 45       |
| FMH016050  | M16-2.00 x 50  | 5             | 25            | 165      | FMH020160 | M20-2.50 x 160 | 2             | 10            | 35       |
| FMH016055  | M16-2.0 x 55   | 5             | 25            | 165      | FMH020180 | M20-2.50 x 180 | 2             | 10            | 35       |
| FMH016060  | M16-2.00 x 60  | 5             | 25            | 150      | FMH020200 | M20-2.50 x 200 | 2             | 10            | 30       |
| FMH016070  | M16-2.00 x 70  | 5             | 25            | 125      | FMH022050 | M22-2.50 x 50  | 2             | 10            | -        |
| FMH016080  | M16-2.00 x 80  | 4             | 20            | 110      | FMH022080 | M22-2.50 x 80  | 2             | 10            | -        |
| FMH016090  | M16-2.00 x 90  | 4             | 20            | 100      | FMH024065 | M24-3.00 x 65  | 2             | 10            | -        |
| FMH016100  | M16-2.00 x 100 | 4             | 20            | 95       | FMH024070 | M24-3.00 x 70  | 2             | 10            | 50       |
| FMH016110  | M16-2.00 x 110 | 4             | 20            | 90       | FMH024080 | M24-3.00 x 80  | 2             | 10            | 45       |
| FMH016120  | M16-2.00 x 120 | 4             | 20            | 80       | FMH024100 | M24-3.00 x 100 | 2             | 10            | 40       |
| FMH016130  | M16-2.00 x 130 | 4             | 20            | 75       | FMH024120 | M24-3.00 x 120 | 2             | 10            | 35       |
| FMH016140  | M16-2.00 x 140 | 4             | 20            | 70       | FMH024140 | M24-3.00 x 140 | 2             | 10            | 30       |
| FMH016160  | M16-2.00 x 160 | -             | 5             | 65       | FMH024160 | M24-3.00 x 160 | -             | 3             | 25       |
| FMH016180  | M16-2.00 x 180 | -             | 5             | 55       |           |                |               |               |          |

# METRIC HEX CAP SCREWS

CLASS 10.9 • FINE THREAD • ZINC PLATED • IMPORTED



| Part #      | Size          | Farm Pack Qty | Shop Pack Qty | Bulk Qty | Part #       | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-------------|---------------|---------------|---------------|----------|--------------|----------------|---------------|---------------|----------|
| FMHOF08016  | M8-1.00 x 16  | 20            | 100           | -        | FMHOF12030   | M12-1.50 x 30  | 10            | 50            | 450      |
| FMHOF08020  | M8-1.00 x 20  | 20            | 100           | -        | FMHOF12035   | M12-1.50 x 35  | 10            | 50            | -        |
| FMHOF08025  | M8-1.00 x 25  | 20            | 100           | -        | FMHOF12040   | M12-1.50 x 40  | 10            | 50            | -        |
| FMHOF08030  | M8-1.00 x 30  | 20            | 100           | -        | FMHOF12050   | M12-1.50 x 50  | 10            | 50            | -        |
| FMHOF08040  | M8-1.00 x 40  | 20            | 100           | -        | FMHOF12060   | M12-1.50 x 60  | 10            | 50            | -        |
| FMHOF08050  | M8-1.00 x 50  | 10            | 50            | -        | FMHOF12070   | M12-1.50 x 70  | 10            | 50            | -        |
| FMHOF08060  | M8-1.00 x 60  | 10            | 50            | -        | FMHOF12075   | M12-1.50 x 75  | 10            | 50            | -        |
| FMHOF08070  | M8-1.00 x 70  | 10            | 50            | -        | FMHOF12080   | M12-1.50 x 80  | 5             | 25            | -        |
| FMHOF08080Y | M8-1.00 x 80  | 10            | 50            | -        | FMHOF12090   | M12-1.50 x 90  | 5             | 25            | -        |
| FMHOF10016  | M10-1.25 x 16 | 10            | 50            | -        | FMHOF14025   | M14-1.50 x 25  | 5             | 25            | -        |
| FMHOF10020  | M10-1.25 x 20 | 10            | 50            | -        | FMHOF14030   | M14-1.50 x 30  | 5             | 25            | -        |
| FMHOF10025  | M10-1.25 x 25 | 10            | 50            | -        | FMHOF14040   | M14-1.50 x 40  | 5             | 25            | -        |
| FMHOF10030  | M10-1.25 x 30 | 10            | 50            | 550      | FMHOF14050   | M14-1.50 x 50  | 5             | 25            | -        |
| FMHOF10035  | M10-1.25 x 35 | 10            | 50            | 500      | FMHOF14055   | M14-1.50 x 55  | 5             | 25            | 220      |
| FMHOF10040  | M10-1.25 x 40 | 10            | 50            | -        | FMHOF14060   | M14-1.50 x 60  | 5             | 25            | -        |
| FMHOF10050  | M10-1.25 x 50 | 10            | 50            | -        | FMHOF14070   | M14-1.50 x 70  | 5             | 25            | -        |
| FMHOF10055  | M10-1.25 x 55 | 10            | 50            | -        | FMHOF14080   | M14-1.50 x 80  | 5             | 25            | -        |
| FMHOF10060  | M10-1.25 x 60 | 10            | 50            | -        | FMHOF16050   | M16-1.50 x 50  | 5             | 25            | -        |
| FMHOF10070  | M10-1.25 x 70 | 10            | 50            | -        | FMHOF16060   | M16-1.50 x 60  | 5             | 25            | -        |
| FMHOF10080  | M10-1.25 x 80 | 5             | 25            | -        | FMHOF16070   | M16-1.50 x 70  | 5             | 25            | -        |
| FMHOF12020  | M12-1.50 x 20 | 10            | 50            | -        | FMHOF16100   | M16-1.50 x 100 | 4             | 20            | -        |
| FMHOF12025  | M12-1.50 x 25 | 10            | 50            | -        | FMHOEFP20090 | M20-1.5 x 90   | -             | 5             | 75       |

## CLASS 10.9 • EXTRA FINE THREAD • ZINC PLATED • IMPORTED



| Part #       | Size          | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|--------------|---------------|---------------|---------------|----------|
| FMH0EF10020Y | M10-1.0 x 20  | 10            | 50            | -        |
| FMH0EF10030Y | M10-1.0 x 30  | 10            | 50            | 700      |
| FMH0EF10040  | M10-1.0 x 40  | 10            | 50            | -        |
| FMH0EF10050  | M10-1.0 x 50  | 10            | 50            | -        |
| FMH0EF12020  | M12-1.25 x 20 | 10            | 50            | -        |
| FMH0EF12025  | M12-1.25 x 25 | 10            | 50            | 500      |
| FMH0EF12030  | M12-1.25 x 30 | 10            | 50            | -        |

| Part #      | Size          | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|-------------|---------------|---------------|---------------|----------|
| FMH0EF12035 | M12-1.25 x 35 | 10            | 50            | -        |
| FMH0EF12040 | M12-1.25 x 40 | 10            | 50            | -        |
| FMH0EF12045 | M12-1.25 x 45 | 10            | 50            | -        |
| FMH0EF12050 | M12-1.25 x 50 | 10            | 50            | -        |
| FMH0EF12060 | M12-1.25 x 60 | 10            | 50            | -        |
| FMH0EF12080 | M12-1.25 x 80 | 10            | 50            | -        |

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED



| Part #     | Size           | Farm Pack Qty | Shop Pack Qty |
|------------|----------------|---------------|---------------|
| FSSMH05016 | M5-0.8 x 16mm  | 20            | 100           |
| FSSMH05020 | M5-0.8 x 20mm  | 20            | 100           |
| FSSMH05025 | M5-0.8 x 25mm  | 20            | 100           |
| FSSMH06010 | M6-1 x 10mm    | 20            | 100           |
| FSSMH06012 | M6-1 x 12mm    | 20            | 100           |
| FSSMH06016 | M6-1 x 16mm    | 20            | 100           |
| FSSMH06020 | M6-1 x 20mm    | 20            | 100           |
| FSSMH06025 | M6-1 x 25mm    | 20            | 100           |
| FSSMH06030 | M6-1 x 30mm    | 20            | 100           |
| FSSMH06040 | M6-1 x 40mm    | 20            | 100           |
| FSSMH08016 | M8-1.25 x 16mm | 20            | 100           |
| FSSMH08020 | M8-1.25 x 20mm | 20            | 100           |
| FSSMH08025 | M8-1.25 x 25mm | 20            | 100           |
| FSSMH08030 | M8-1.25 x 30mm | 20            | 100           |
| FSSMH08040 | M8-1.25 x 40mm | 20            | 100           |

| Part #     | Size            | Farm Pack Qty | Shop Pack Qty |
|------------|-----------------|---------------|---------------|
| FSSMH08050 | M8-1.25 x 50mm  | 10            | 50            |
| FSSMH08060 | M8-1.25 x 60mm  | 10            | 50            |
| FSSMH10020 | M10-1.5 x 20mm  | 10            | 50            |
| FSSMH10025 | M10-1.5 x 25mm  | 10            | 50            |
| FSSMH10030 | M10-1.5 x 30mm  | 10            | 50            |
| FSSMH10035 | M10-1.5 x 35mm  | 10            | 50            |
| FSSMH10040 | M10-1.5 x 40mm  | 10            | 50            |
| FSSMH10050 | M10-1.5 x 50mm  | 10            | 50            |
| FSSMH10060 | M10-1.5 x 60mm  | 10            | 50            |
| FSSMH12025 | M12-1.75 x 25mm | 5             | 25            |
| FSSMH12030 | M12-1.75 x 30mm | 5             | 25            |
| FSSMH12040 | M12-1.75 x 40mm | 5             | 25            |
| FSSMH12050 | M12-1.75 x 50mm | 5             | 25            |
| FSSMH12060 | M12-1.75 x 60mm | 5             | 25            |

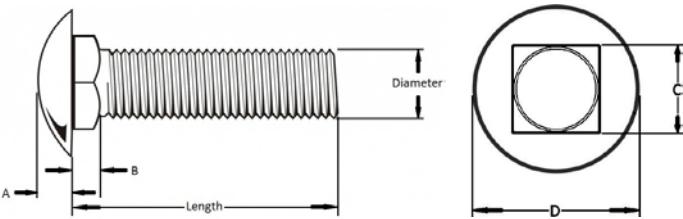


METRIC CARRIAGE BOLTS, METRIC FLANGE SCREWS

METRIC CARRIAGE BOLTS

DIMENSIONS

| Size | A       | B       | C        | D        |
|------|---------|---------|----------|----------|
|      | +/- 0.4 | +/- 0.6 | +/- 0.58 | +/- 0.65 |
| M8   | 4.4     | 5       | 8        | 19.35    |
| M10  | 5.4     | 6       | 10       | 23.35    |



Metric Carriage Bolts typically come in a class 4.6 which is basically equivalent to A307.

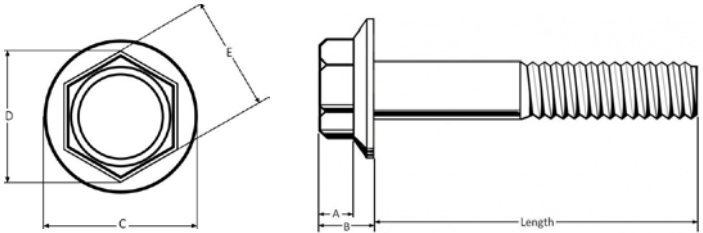
| Part #   | Size           | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|----------|----------------|---------------|---------------|----------|
| FMC06025 | M6-1 x 25mm    | 20            | 100           | 1000     |
| FMC10025 | M10-1.5 x 25mm | 8             | 40            | 400      |
| FMC10040 | M10-1.5 x 40mm | 6             | 30            | 300      |
| FMC10050 | M10-1.5 x 50mm | 4             | 20            | -        |



METRIC FLANGE SCREWS

TECHNICAL INFORMATION

DIMENSIONS



| Size | A   | B     | C   | D    |
|------|-----|-------|-----|------|
|      | Max | Min   | Max |      |
| M5   | 8   | 8.79  | 5   | 11.8 |
| M6   | 10  | 11.05 | 6   | 14.2 |
| M8   | 13  | 14.38 | 8   | 17.9 |
| M10  | 15  | 16.64 | 10  | 21.8 |
| M12  | 18  | 20.03 | 12  | 26   |
| M16  | 24  | 26.75 | 16  | 34.5 |

## SERRATED • CLASS 8.8 • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #     | Size           | Package Qty | Bulk Qty |
|------------|----------------|-------------|----------|
| FMFS805012 | M5-0.8 x 12mm  | 100         | -        |
| FMFS805016 | M5-0.8 x 16mm  | 100         | -        |
| FMFS806012 | M6-1.0 x 12mm  | 100         | -        |
| FMFS806016 | M6-1.0 x 16mm  | 100         | -        |
| FMFS806020 | M6-1.0 x 20mm  | 100         | -        |
| FMFS806025 | M6-1.0 x 25mm  | 100         | -        |
| FMFS806035 | M6-1.0 x 35mm  | 100         | -        |
| FMFS808016 | M8-1.25 x 16mm | 100         | 1000     |



## CLASS 10.9 • COARSE THREAD • ZINC PLATED • IMPORTED



| Part #     | Size           | Package Qty | Bulk Qty | Part #     | Size            | Package Qty | Bulk Qty |
|------------|----------------|-------------|----------|------------|-----------------|-------------|----------|
| FMFS006010 | M6-1.00 x 10mm | 100         | 2500     | FMFS010025 | M10-1.5 x 25mm  | 50          | -        |
| FMFS006012 | M6-1.00 x 12mm | 100         | 2400     | FMFS010030 | M10-1.5 x 30mm  | 25          | 550      |
| FMFS006016 | M6-1.00 x 16mm | 100         | 2200     | FMFS010035 | M10-1.5 x 35mm  | 50          | 500      |
| FMFS006020 | M6-1.00 x 20mm | 100         | -        | FMFS010040 | M10-1.5 x 40mm  | 50          | 450      |
| FMFS006025 | M6-1.00 x 25mm | 100         | 1800     | FMFS010050 | M10-1.5 x 50mm  | 50          | 350      |
| FMFS008012 | M8-1.25 x 12mm | 100         | 1200     | FMFS010060 | M10-1.5 x 60mm  | 50          | 300      |
| FMFS008016 | M8-1.25 x 16mm | 100         | 1100     | FMFS012025 | M12-1.75 x 25mm | 50          | 400      |
| FMFS008020 | M8-1.25 x 20mm | 100         | 1000     | FMFS012030 | M12-1.75 x 30mm | 50          | 350      |
| FMFS008025 | M8-1.25 x 25mm | 100         | 950      | FMFS012035 | M12-1.75 x 35mm | 50          | -        |
| FMFS008040 | M8-1.25 x 40mm | 100         | 750      | FMFS012040 | M12-1.75 x 40mm | 50          | 300      |
| FMFS008045 | M8-1.25 x 45mm | 100         | 600      | FMFS012050 | M12-1.75 x 50mm | 50          | -        |
| FMFS008050 | M8-1.25 x 50mm | 50          | 500      | FMFS016045 | M16-2.0 x 45mm  | 25          | -        |
| FMFS008060 | M8-1.25 x 60mm | -           | -        | FMFS016050 | M16-2.0 x 50mm  | 25          | 135      |
| FMFS010020 | M10-1.5 x 20mm | 50          | 650      |            |                 |             |          |

# METRIC FLANGE SCREWS, METRIC HEX NUTS

## CLASS 10.9 ▪ FINE THREAD ▪ ZINC PLATED ▪ IMPORTED

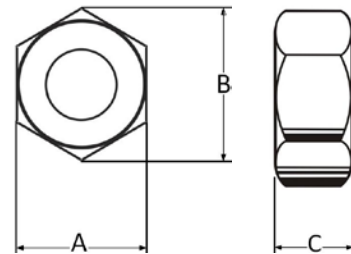
| Part #      | Size            | Package Qty |
|-------------|-----------------|-------------|
| FMFSOF10025 | M10-1.25 x 25mm | 50          |
| FMFSOF10030 | M10-1.25 x 30mm | 50          |
| FMFSOF10040 | M10-1.25 x 40mm | 50          |



## METRIC HEX NUTS

## TECHNICAL INFORMATION

### DIMENSIONS



| Size | A   | B     | C    |
|------|-----|-------|------|
|      | Max | Ref   | Min  |
| M3   | 5.5 | 6.01  | 2.15 |
| M4   | 7   | 7.66  | 2.9  |
| M5   | 8   | 8.79  | 3.7  |
| M6   | 10  | 11.05 | 4.7  |
| M7   | 11  | 12.12 | 5.2  |
| M8   | 13  | 14.38 | 6.14 |
| M10  | 17  | 17.77 | 7.64 |

| Size | A   | B     | C    |
|------|-----|-------|------|
|      | Max | Ref   | Min  |
| M12  | 19  | 20.03 | 9.64 |
| M14  | 22  | 23.35 | 10.3 |
| M16  | 24  | 26.75 | 12.3 |
| M18  | 27  | 29.56 | 14.3 |
| M20  | 30  | 32.95 | 14.9 |
| M24  | 36  | 39.55 | 17.7 |
| M30  | 46  | 50.85 | 22.7 |

## CLASS 8 ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

Metric Hex Nuts are manufactured to DIN 934 specs.



| Part # | Size    | Package Qty | Bulk Qty |
|--------|---------|-------------|----------|
| FMHNO3 | M3-0.5  | 100         | -        |
| FMHNO4 | M4-0.7  | 100         | 20000    |
| FMHNO5 | M5-0.8  | 100         | 15000    |
| FMHNO6 | M6-1    | 100         | 6000     |
| FMHNO7 | M7-1    | 100         | 5000     |
| FMHNO8 | M8-1.25 | 100         | 3500     |

| Part # | Size     | Package Qty | Bulk Qty |
|--------|----------|-------------|----------|
| FMHN10 | M10-1.5  | 50          | 1500     |
| FMHN12 | M12-1.75 | 50          | 1000     |
| FMHN14 | M14-2    | 25          | 750      |
| FMHN16 | M16-2    | 25          | 500      |
| FMHN18 | M18-2.5  | 25          | 200      |
| FMHN20 | M20-2.5  | 25          | 300      |

## CLASS 10 ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

| Part #  | Size     | Package Qty | Bulk Qty |
|---------|----------|-------------|----------|
| FMHNO06 | M6-1     | 100         | 5000     |
| FMHNO08 | M8-1.25  | 100         | 3500     |
| FMHNO10 | M10-1.5  | 50          | 2500     |
| FMHNO12 | M12-1.75 | 50          | 1000     |
| FMHNO14 | M14-2    | 25          | 750      |
| FMHNO16 | M16-2    | 25          | 500      |
| FMHNO18 | M18-2.5  | 25          | 200      |
| FMHNO20 | M20-2.5  | 25          | 300      |
| FMHNO22 | M22-2.5  | 15          | 150      |
| FMHNO24 | M24-3    | 10          | 150      |



## CLASS 10 ▪ FINE THREAD ▪ ZINC PLATED ▪ IMPORTED

| Part #   | Size     | Package Qty |
|----------|----------|-------------|
| FMHNOF08 | M8-1     | 100         |
| FMHNOF10 | M10-1.25 | 50          |
| FMHNOF12 | M12-1.5  | 50          |
| FMHNOF14 | M14-1.5  | 25          |
| FMHNOF16 | M16-1.5  | 25          |

## CLASS 10 ▪ EXTRA FINE THREAD ▪ ZINC PLATED ▪ IMPORTED

| Part #    | Size     | Package Qty |
|-----------|----------|-------------|
| FMHNOEF10 | M10-1    | 50          |
| FMHNOEF12 | M12-1.25 | 50          |



## 18-8 STAINLESS STEEL ▪ COARSE THREAD ▪ IMPORTED

| Part #   | Size     | Package Qty | Bulk Qty |
|----------|----------|-------------|----------|
| FSSMHN04 | M4-0.7   | 100         | -        |
| FSSMHN05 | M5-0.8   | 100         | 15000    |
| FSSMHN06 | M6-1     | 100         | -        |
| FSSMHN08 | M8-1.25  | 100         | -        |
| FSSMHN10 | M10-1.5  | 50          | 2500     |
| FSSMHN12 | M12-1.75 | 50          | 1000     |



# METRIC HEX JAM NUTS, METRIC WING NUTS, METRIC SQUARE NUTS

## METRIC HEX JAM NUTS

COARSE THREAD • ZINC PLATED • IMPORTED

| Part # | Size    | Package Qty | Bulk Qty |
|--------|---------|-------------|----------|
| FMJN10 | M10-1.5 | 100         | 1000     |

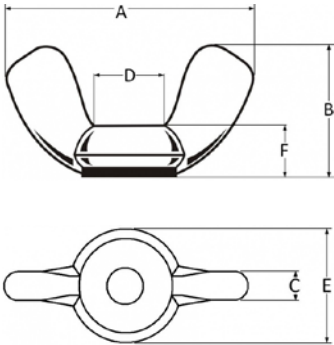


## METRIC WING NUTS

### TECHNICAL INFORMATION

#### DIMENSIONS

| Size | A    | B  | C   | E    |
|------|------|----|-----|------|
|      | Ref  |    | Min | Ref  |
| M6   | 30.5 | 15 | 1.5 | 12.5 |
| M8   | 36.5 | 18 | 2   | 14.5 |



COARSE THREAD • ZINC PLATED • IMPORTED

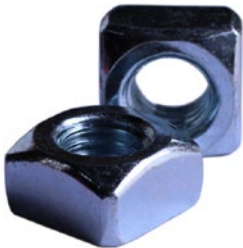
| Part # | Size    | Package Qty | Bulk Qty |
|--------|---------|-------------|----------|
| FMWN06 | M6-1    | 100         | 5000     |
| FMWN08 | M8-1.25 | 100         | 5000     |



## METRIC SQUARE NUTS

METRIC • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size    | Package Qty |
|---------|---------|-------------|
| FMSQN05 | M5-0.8  | 100         |
| FMSQN06 | M6-1    | 100         |
| FMSQN08 | M8-1.25 | 100         |



# METRIC ACORN CAP NUTS, METRIC HEX CASTLE NUTS, METRIC NYLON INSERT LOCK NUTS

## METRIC ▪ COARSE THREAD ▪ 18-8 STAINLESS STEEL ▪ IMPORTED

| Part #    | Size   | Package Qty |
|-----------|--------|-------------|
| FSSMSQN05 | M5-0.8 | 100         |



## METRIC ACORN CAP NUTS

### 18-8 STAINLESS STEEL ▪ COARSE THREAD ▪ IMPORTED

| Part #   | Size | Package Qty | Bulk Qty |
|----------|------|-------------|----------|
| FSSMAN06 | M6-1 | 100         | 2000     |



## METRIC HEX CASTLE NUTS

### FINE THREAD ▪ ZINC PLATED ▪ IMPORTED

| Part #   | Size    | Package Qty |
|----------|---------|-------------|
| FMCANF18 | M18-1.5 | 25          |

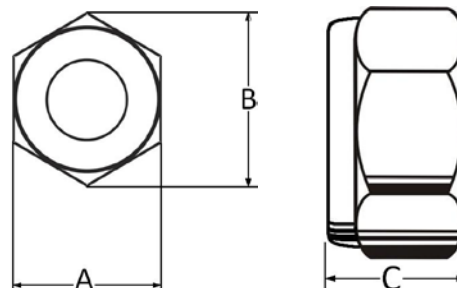


## METRIC NYLON INSERT LOCK NUTS

## TECHNICAL INFORMATION

### DIMENSIONS

| Size | A   | B     | C   |
|------|-----|-------|-----|
|      | Max | Min   | Max |
| M4   | 7   | 7.66  | 5   |
| M5   | 8   | 8.79  | 5   |
| M6   | 10  | 11.05 | 6   |
| M7   | 11  | 12.12 | 7.5 |
| M8   | 13  | 14.38 | 8   |
| M10  | 17  | 18.9  | 10  |
| M12  | 19  | 21.1  | 12  |
| M16  | 24  | 26.75 | 16  |
| M20  | 30  | 32.95 | 20  |



# METRIC NYLON INSERT LOCK NUTS

## CLASS 8 • COARSE THREAD • ZINC PLATED • IMPORTED

Metric Nylon Insert Lock Nuts are manufactured to DIN 985 specs.

| Part #  | Size     | Shop Pack Qty | Bulk Qty |
|---------|----------|---------------|----------|
| FMLNN04 | M4       | 100           | 5000     |
| FMLNN05 | M5       | 100           | 5000     |
| FMLNN06 | M6       | 100           | 3500     |
| FMLNN07 | M7       | 100           | -        |
| FMLNN08 | M8-1.25  | 100           | 3000     |
| FMLNN10 | M10-1.5  | 50            | 2500     |
| FMLNN12 | M12-1.75 | 50            | 1000     |
| FMLNN14 | M14-2    | 25            | 1000     |
| FMLNN16 | M16-2    | 25            | 500      |
| FMLNN20 | M20-2.5  | 25            | 400      |



## CLASS 8 • FINE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size     | Shop Pack Qty |
|----------|----------|---------------|
| FMLNNF08 | M8-1     | 100           |
| FMLNNF10 | M10-1.25 | 50            |



## CLASS 10 • COARSE THREAD • YELLOW ZINC PLATED • IMPORTED

| Part #   | Size     | Shop Pack Qty | Bulk Qty |
|----------|----------|---------------|----------|
| FMLNN008 | M8-1.25  | 100           | 3000     |
| FMLNN010 | M10-1.5  | 50            | 2500     |
| FMLNN012 | M12-1.75 | 50            | 1000     |
| FMLNN016 | M16-2    | 25            | 500      |
| FMLNN020 | M20-2.5  | 25            | 400      |



## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #    | Size     | Shop Pack Qty | Bulk Qty |
|-----------|----------|---------------|----------|
| FSSMLNN04 | M4-0.7   | 100           | 5000     |
| FSSMLNN05 | M5-0.8   | 100           | 5000     |
| FSSMLNN06 | M6-1     | 100           | 3500     |
| FSSMLNN08 | M8-1.25  | 100           | -        |
| FSSMLNN10 | M10-1.5  | 50            | -        |
| FSSMLNN12 | M12-1.75 | 50            | 1000     |



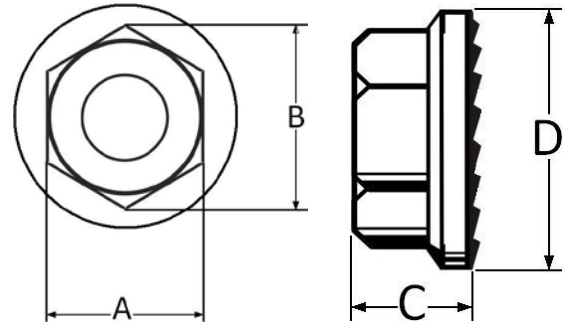


## METRIC FLANGE NUTS

## TECHNICAL INFORMATION

## DIMENSIONS

| Size | A   | B     | C   | D    |
|------|-----|-------|-----|------|
|      | Max | Min   | Max |      |
| M5   | 8   | 8.79  | 5   | 11.8 |
| M6   | 10  | 11.05 | 6   | 14.2 |
| M8   | 13  | 14.38 | 8   | 17.9 |
| M10  | 15  | 16.64 | 10  | 21.8 |
| M12  | 18  | 20.03 | 12  | 26   |
| M16  | 24  | 26.75 | 16  | 34.5 |



## SERRATED • CLASS 8 • COARSE THREAD • ZINC PLATED • IMPORTED

Metric Flange Nuts are manufactured to DIN 6923 specs.

| Part #  | Size     | Shop Pack Qty | Bulk Qty |
|---------|----------|---------------|----------|
| FMFNS04 | M4-0.7   | 100           | -        |
| FMFNS05 | M5-0.8   | 100           | 5000     |
| FMFNS06 | M6-1     | 100           | 4000     |
| FMFNS08 | M8-1.25  | 100           | 2000     |
| FMFNS10 | M10-1.5  | 50            | 1000     |
| FMFNS12 | M12-1.75 | 50            | 600      |



## SERRATED • CLASS 8 • FINE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size     | Shop Pack Qty |
|----------|----------|---------------|
| FMFNSF10 | M10-1.25 | 50            |



## SERRATED • CLASS 10.9 • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size     | Shop Pack Qty | Bulk Qty |
|----------|----------|---------------|----------|
| FMFNS006 | M6-1     | 100           | 8000     |
| FMFNS010 | M10-1.5  | 50            | -        |
| FMFNS012 | M12-1.75 | 50            | -        |





# METRIC FLANGE NUTS, METRIC ALL METAL TOP LOCK NUTS

NON SERRATED • CLASS 10 • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size     | Package Qty |
|---------|----------|-------------|
| FMFN006 | M6-1     | 100         |
| FMFN008 | M8-1.25  | 100         |
| FMFN010 | M10-1.5  | 50          |
| FMFN012 | M12-1.75 | 50          |
| FMFN016 | M16-2    | 25          |

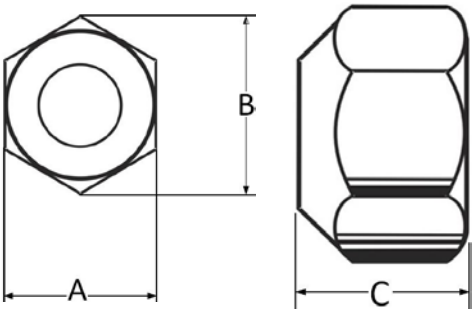


## METRIC ALL METAL TOP LOCK NUTS

### TECHNICAL INFORMATION

#### DIMENSIONS

| Size | A   | B     | C    |
|------|-----|-------|------|
|      | Max | Min   | Max  |
| M5   | 8   | 8.79  | 5.1  |
| M6   | 10  | 11.05 | 6    |
| M8   | 13  | 14.38 | 8    |
| M10  | 17  | 18.9  | 10   |
| M12  | 19  | 21.1  | 12   |
| M14  | 22  | 24.49 | 14   |
| M16  | 24  | 26.75 | 16   |
| M18  | 27  | 29.56 | 18.5 |
| M20  | 30  | 32.95 | 20   |



## CLASS 10 • COARSE THREAD • ZINC PLATED • IMPORTED

Metric All Metal Top Lock Nuts are manufactured to DIN 980 specs.

| Part #  | Size     | Shop Pack Qty | Bulk Qty |
|---------|----------|---------------|----------|
| FMLN006 | M6-1     | 100           | 2400     |
| FMLN008 | M8-1.25  | 100           | 2000     |
| FMLN010 | M10-1.5  | 50            | 750      |
| FMLN012 | M12-1.75 | 50            | 500      |
| FMLN014 | M14-2    | 25            | 300      |
| FMLN016 | M16-2    | 25            | 250      |
| FMLN018 | M18-2.5  | 25            | -        |
| FMLN020 | M20-2.5  | 25            | 150      |
| FMLN024 | M24-3    | 10            | 100      |



# METRIC FLAT WASHERS

## TECHNICAL INFORMATION

### DIMENSIONS

| Size | ID      | OD | Thickness |
|------|---------|----|-----------|
|      | Nominal |    |           |
| M3   | 3.2     | 7  | 0.5       |
| M4   | 4.3     | 9  | 0.8       |
| M5   | 5.3     | 10 | 1         |
| M6   | 6.4     | 12 | 1.6       |
| M7   | 7.4     | 14 | 1.6       |
| M8   | 8.4     | 16 | 1.6       |
| M10  | 10.5    | 20 | 2         |
| M12  | 13      | 24 | 2.5       |
| M14  | 15      | 28 | 2.5       |
| M16  | 17      | 30 | 3         |
| M18  | 19      | 34 | 3         |
| M20  | 21      | 37 | 3         |
| M24  | 25      | 44 | 4         |
| M30  | 31      | 56 | 4         |

### ZINC PLATED ▪ IMPORTED

Metric Flat Washers are manufactured to DIN 125 specs.



| Part # | Size | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|--------|------|---------------|---------------|----------|
| FMFW04 | M4   | 20            | 100           | 15000    |
| FMFW05 | M5   | 20            | 100           | 15000    |
| FMFW06 | M6   | 20            | 100           | 15000    |
| FMFW07 | M7   | 20            | 100           | -        |
| FMFW08 | M8   | 20            | 100           | 10000    |
| FMFW10 | M10  | 20            | 100           | 5000     |
| FMFW12 | M12  | 20            | 100           | 2800     |

| Part # | Size | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|--------|------|---------------|---------------|----------|
| FMFW14 | M14  | 10            | 50            | 2000     |
| FMFW16 | M16  | 10            | 50            | 1600     |
| FMFW18 | M18  | 5             | 25            | 600      |
| FMFW20 | M20  | 5             | 25            | 1000     |
| FMFW22 | M22  | 5             | 25            | -        |
| FMFW24 | M24  | 5             | 25            | 550      |

# METRIC FLAT WASHERS, METRIC SPLIT LOCK WASHERS

## CLASS 10 • ZINC PLATED • IMPORTED

| Part #  | Size | Farm Pack Qty | Shop Pack Qty | Bulk Qty |
|---------|------|---------------|---------------|----------|
| FMFW006 | M6   | 20            | 100           | 18000    |
| FMFW008 | M8   | 20            | 100           | -        |
| FMFW010 | M10  | 20            | 100           | 5000     |
| FMFW012 | M12  | 20            | 100           | 3000     |
| FMFW014 | M14  | 10            | 50            | 2000     |
| FMFW016 | M16  | 10            | 50            | 1100     |
| FMFW018 | M18  | 5             | 25            | 500      |
| FMFW020 | M20  | 5             | 25            | 700      |
| FMFW024 | M24  | 5             | 25            | 600      |



## 18-8 STAINLESS STEEL • IMPORTED

| Part #   | Size | Package Qty | Package Qty |
|----------|------|-------------|-------------|
| FSSMFW04 | M4   | 20          | 100         |
| FSSMFW05 | M5   | 20          | 100         |
| FSSMFW06 | M6   | 20          | 100         |
| FSSMFW08 | M8   | 20          | 100         |
| FSSMFW10 | M10  | 20          | 100         |
| FSSMFW12 | M12  | 20          | 100         |
| FSSMFW14 | M14  | 20          | 100         |
| FSSMFW16 | M16  | 10          | 50          |



## METRIC SPLIT LOCK WASHERS

## TECHNICAL INFORMATION

### DIMENSIONS

| Size | ID   | OD   |
|------|------|------|
|      | Min  | Max  |
| M3   | 3.1  | 6.2  |
| M4   | 4.1  | 7.6  |
| M5   | 5.1  | 9.2  |
| M6   | 6.1  | 11.8 |
| M7   | 7.1  | 12.8 |
| M8   | 8.1  | 14.8 |
| M10  | 10.2 | 18.1 |

| Size | ID   | OD   |
|------|------|------|
|      | Min  | Max  |
| M12  | 12.2 | 21.1 |
| M14  | 14.2 | 24.1 |
| M16  | 16.2 | 27.4 |
| M18  | 18.2 | 29.4 |
| M20  | 20.2 | 33.6 |
| M24  | 24.5 | 40   |
| M30  | 30.5 | 48.2 |

## ZINC PLATED • IMPORTED

Metric Split Lock Washers are manufactured to DIN 127 specs. They are manufactured from spring steel and have a Rockwell Hardness of C44-C51.



| Part # | Size | Farm Pack Qty | Package Qty | Bulk Qty | Part # | Size | Farm Pack Qty | Package Qty | Bulk Qty |
|--------|------|---------------|-------------|----------|--------|------|---------------|-------------|----------|
| FMLW04 | M4   | 20            | 100         | 100000   | FMLW12 | M12  | 20            | 100         | 5500     |
| FMLW05 | M5   | 20            | 100         | 50000    | FMLW14 | M14  | 10            | 50          | 3750     |
| FMLW06 | M6   | 20            | 100         | 25000    | FMLW16 | M16  | 10            | 50          | 2500     |
| FMLW07 | M7   | 20            | 100         | 15000    | FMLW20 | M20  | 5             | 25          | 1250     |
| FMLW08 | M8   | 20            | 100         | 12500    | FMLW22 | M22  | 5             | 25          | -        |
| FMLW10 | M10  | 20            | 100         | 8000     | FMLW24 | M24  | 2             | 10          | -        |

## YELLOW ZINC PLATED • IMPORTED

| Part #  | Size | Farm Pack Qty | Package Qty | Bulk Qty |
|---------|------|---------------|-------------|----------|
| FMLW006 | M6   | 20            | 100         | 10000    |
| FMLW008 | M8   | 20            | 100         | 10000    |
| FMLW010 | M10  | 20            | 100         | 4000     |
| FMLW012 | M12  | 20            | 100         | -        |
| FMLW014 | M14  | 10            | 50          | 3750     |
| FMLW016 | M16  | 10            | 50          | 1000     |
| FMLW018 | M18  | 5             | 25          | 1800     |
| FMLW020 | M20  | 5             | 25          | 1250     |



## 18-8 STAINLESS STEEL • IMPORTED

| Part #   | Size | Farm Pack Qty | Package Qty | Bulk Qty |
|----------|------|---------------|-------------|----------|
| FSSMLW04 | M4   | 20            | 100         | -        |
| FSSMLW05 | M5   | 20            | 100         | 50000    |
| FSSMLW06 | M6   | 20            | 100         | 25000    |
| FSSMLW08 | M8   | 20            | 100         | 12500    |
| FSSMLW10 | M10  | 20            | 100         | -        |
| FSSMLW12 | M12  | 20            | 100         | -        |
| FSSMLW14 | M14  | 10            | 50          | -        |
| FSSMLW16 | M16  | 10            | 50          | -        |



METRIC HI COLLAR SPLIT LOCK WASHERS, METRIC MACHINE SCREWS

METRIC HI COLLAR SPLIT LOCK WASHERS

DIN 7980 ▪ ZINC PLATED

| Part #   | Size | Farm Pack Qty | Package Qty |
|----------|------|---------------|-------------|
| FMLWHC10 | M10  | 20            | 100         |



METRIC MACHINE SCREWS

TECHNICAL INFORMATION

DIMENSIONS

| Size | Head OD |       | Head Height |      |
|------|---------|-------|-------------|------|
|      | Min     | Max   | Min         | Max  |
| M3.5 | 6.64    | 7.00  | 2.58        | 2.82 |
| M4   | 7.64    | 8.00  | 2.95        | 3.25 |
| M5   | 9.64    | 10.00 | 3.65        | 3.95 |
| M6   | 11.57   | 12.00 | 4.45        | 4.75 |
| M8   | 15.57   | 16.00 | 5.85        | 6.15 |

PHILLIPS PAN HEAD ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

Metric Phillips Pan Head Machine Screws are manufactured to DIN 7985 specs.



| Part #      | Size        | Package Qty | Bulk Qty |
|-------------|-------------|-------------|----------|
| FMSPPM02008 | M2-0.4 x 8  | 100         | 45000    |
| FMSPPM03008 | M3-0.5 x 8  | 100         | -        |
| FMSPPM03010 | M3-0.5 x 10 | 100         | 15000    |
| FMSPPM04006 | M4-0.7 x 6  | 100         | -        |
| FMSPPM04008 | M4-0.7 x 8  | 100         | 7000     |
| FMSPPM04012 | M4-0.7 x 12 | 100         | 5500     |
| FMSPPM04016 | M4-0.7 x 16 | 100         | -        |
| FMSPPM04020 | M4-0.7 x 20 | 100         | 4500     |
| FMSPPM04025 | M4-0.7 x 25 | 100         | -        |
| FMSPPM05010 | M5-0.8 x 10 | 100         | 3500     |
| FMSPPM05016 | M5-0.8 x 16 | 100         | 3000     |

| Part #      | Size         | Package Qty | Bulk Qty |
|-------------|--------------|-------------|----------|
| FMSPPM05020 | M5-0.8 x 20  | 100         | 2500     |
| FMSPPM05025 | M5-0.8 x 25  | 100         | -        |
| FMSPPM06010 | M6-1 x 10    | 100         | -        |
| FMSPPM06012 | M6-1 x 12    | 100         | 2500     |
| FMSPPM06016 | M6-1 x 16    | 100         | 2000     |
| FMSPPM06020 | M6-1 x 20    | 100         | 1600     |
| FMSPPM06025 | M6-1 x 25    | 100         | 1500     |
| FMSPPM08016 | M8-1.25 x 16 | 100         | -        |
| FMSPPM08020 | M8-1.25 x 20 | 100         | 800      |
| FMSPPM08025 | M8-1.25 x 25 | 100         | 1250     |
| FMSPPM08040 | M8-1.25 x 40 | 100         | 600      |

## PHILLIPS PAN HEAD ▪ COARSE THREAD ▪ 18/8 STAINLESS STEEL ▪ IMPORTED

| Part #       | Size        | Package Qty | Bulk Qty |
|--------------|-------------|-------------|----------|
| FSSMSPPM0412 | M4-0.7 x 12 | 100         | -        |
| FSSMSPPM0420 | M4-0.7 x 20 | 100         | 4500     |



## PHILLIPS FLAT HEAD ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

Metric Phillips Flat Head Machine Screws are manufactured to DIN 965 specs.

| Part #     | Size         | Package Qty | Bulk Qty |
|------------|--------------|-------------|----------|
| FMSPF08025 | M8-1.25 x 25 | 100         | 1200     |



## METRIC THREADED ROD

### LOW CARBON STEEL ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

| Part #   | Size          |
|----------|---------------|
| FMTR2061 | M6-1 X 1M     |
| FMTR2081 | M8-1.25 X 1M  |
| FMTR2101 | M10-1.5 X 1M  |
| FMTR2121 | M12-1.75 X 1M |



### GRADE B7 ▪ COARSE THREAD ▪ PLAIN FINISH ▪ IMPORTED

| Part #    | Size          |
|-----------|---------------|
| FMTRB7061 | M6-1 X 1M     |
| FMTRB7081 | M8-1.25 X 1M  |
| FMTRB7101 | M10-1.5 X 1M  |
| FMTRB7121 | M12-1.75 X 1M |
| FMTRB7141 | M14-2 X 1M    |
| FMTRB7161 | M16-2 X 1M    |
| FMTRB7201 | M20-2.5 X 1M  |



METRIC THREADED ROD, METRIC SOCKET HEAD CAP SCREWS

GRADE B7 ▪ FINE THREAD ▪ PLAIN FINISH ▪ IMPORTED

| Part #     | Size         |
|------------|--------------|
| FMTRB7F161 | M16-1.5 X 1M |



18-8 STAINLESS STEEL ▪ COARSE THREAD ▪ IMPORTED

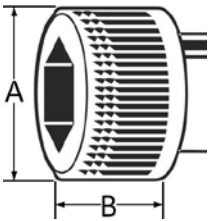
| Part #    | Size         | Bulk Qty |
|-----------|--------------|----------|
| FSSMTR051 | M5-0.8 X 1M  | 20       |
| FSSMTR061 | M6-1.0 X 1M  | 20       |
| FSSMTR081 | M8-1.25 X 1M | 20       |



METRIC SOCKET HEAD CAP SCREWS

TECHNICAL INFORMATION

DIMENSIONS



| Size | Allen Wrench Size | A     |       | B   |       |
|------|-------------------|-------|-------|-----|-------|
|      |                   | Max   | Min   | Max | Min   |
| M4   | 3                 | 7.22  | 6.78  | 4   | 3.82  |
| M5   | 4                 | 8.72  | 8.28  | 5   | 4.82  |
| M6   | 5                 | 10.22 | 9.78  | 6   | 5.7   |
| M8   | 6                 | 13.27 | 12.73 | 8   | 7.64  |
| M10  | 8                 | 16.27 | 15.73 | 10  | 9.64  |
| M12  | 10                | 18.27 | 17.73 | 12  | 11.57 |
| M14  | 12                | 21.33 | 20.67 | 14  | 13.57 |
| M16  | 14                | 24.33 | 23.67 | 16  | 15.57 |

## CLASS 12.9 • COARSE THREAD • PLAIN FINISH • IMPORTED

Metric Socket Head Cap Screws are manufactured to DIN 912 specs. We stock class 12.9 which are basically equivalent to a grade 9 in strength and hardness.



| Part #      | Size           | Package Qty | Bulk Qty | Part #      | Size            | Package Qty | Bulk Qty |
|-------------|----------------|-------------|----------|-------------|-----------------|-------------|----------|
| FMSHCS04010 | M4-0.7 x 10mm  | 100         | 2500     | FMSHCS06045 | M6-1 x 45mm     | 100         | 1000     |
| FMSHCS04012 | M4-0.7 x 12mm  | 100         | 2500     | FMSHCS06050 | M6-1 x 50mm     | 100         | 0        |
| FMSHCS04016 | M4-0.7 x 16mm  | 100         | 2500     | FMSHCS06055 | M6-1 x 55mm     | 100         | 0        |
| FMSHCS04020 | M4-0.7 x 20mm  | 100         | 2500     | FMSHCS06060 | M6-1 x 60mm     | 100         | 0        |
| FMSHCS04025 | M4-0.7 x 25mm  | 100         | 2500     | FMSHCS06070 | M6-1 x 70mm     | 100         | 0        |
| FMSHCS04030 | M4-0.7 x 30mm  | 100         | 2500     | FMSHCS06080 | M6-1 x 80mm     | 100         | 0        |
| FMSHCS04035 | M4-0.7 x 35mm  | 100         | 2500     | FMSHCS06100 | M6-1 x 100mm    | 100         | 0        |
| FMSHCS04040 | M4-0.7 x 40mm  | 100         | 2500     | FMSHCS08012 | M8-1.25 x 12mm  | 100         | 1200     |
| FMSHCS04045 | M4-0.7 x 45mm  | 100         | 0        | FMSHCS08016 | M8-1.25 x 16mm  | 100         | 1000     |
| FMSHCS04050 | M4-0.7 x 50mm  | 100         | 0        | FMSHCS08020 | M8-1.25 x 20mm  | 100         | 900      |
| FMSHCS05008 | M5-0.8 x 8mm   | 100         | 0        | FMSHCS08025 | M8-1.25 x 25mm  | 100         | 1000     |
| FMSHCS05010 | M5-0.8 x 10mm  | 100         | 2500     | FMSHCS08030 | M8-1.25 x 30mm  | 100         | 700      |
| FMSHCS05012 | M5-0.8 x 12mm  | 100         | 2500     | FMSHCS08035 | M8-1.25 x 35mm  | 100         | 700      |
| FMSHCS05016 | M5-0.8 x 16mm  | 100         | 2500     | FMSHCS08040 | M8-1.25 x 40mm  | 100         | 500      |
| FMSHCS05020 | M5-0.8 x 20mm  | 100         | 2500     | FMSHCS08045 | M8-1.25 x 45mm  | 100         | 500      |
| FMSHCS05025 | M5-0.8 x 25mm  | 100         | 2500     | FMSHCS08050 | M8-1.25 x 50mm  | 50          | 500      |
| FMSHCS05030 | M5-0.8 x 30mm  | 100         | 2000     | FMSHCS08060 | M8-1.25 x 60mm  | 50          | 400      |
| FMSHCS05035 | M5-0.8 x 35mm  | 100         | 2000     | FMSHCS08070 | M8-1.25 x 70mm  | 50          | 400      |
| FMSHCS05040 | M5-0.8 x 40mm  | 100         | 2000     | FMSHCS10020 | M10-1.5 x 20mm  | 50          | 0        |
| FMSHCS05045 | M5-0.8 x 45mm  | 100         | 2000     | FMSHCS10025 | M10-1.5 x 25mm  | 50          | 500      |
| FMSHCS05050 | M5-0.8 x 50mm  | 100         | 1500     | FMSHCS10030 | M10-1.5 x 30mm  | 50          | 500      |
| FMSHCS05055 | M5-0.8 x 55mm  | 100         | 0        | FMSHCS10035 | M10-1.5 x 35mm  | 50          | 400      |
| FMSHCS05060 | M5-0.8 x 60mm  | 100         | 0        | FMSHCS10040 | M10-1.5 x 40mm  | 50          | 400      |
| FMSHCS05065 | M5-0.8 x 65mm  | 100         | 0        | FMSHCS10045 | M10-1.5 x 45mm  | 50          | 400      |
| FMSHCS05080 | M5-0.8 x 80mm  | 100         | 0        | FMSHCS10050 | M10-1.5 x 50mm  | 50          | 300      |
| FMSHCS05100 | M5-0.8 x 100mm | 100         | 0        | FMSHCS10060 | M10-1.5 x 60mm  | 50          | 250      |
| FMSHCS06012 | M6-1 x 12mm    | 100         | 2500     | FMSHCS10070 | M10-1.5 x 70mm  | 50          | 250      |
| FMSHCS06016 | M6-1 x 16mm    | 100         | 2000     | FMSHCS10080 | M10-1.5 x 80mm  | 25          | 200      |
| FMSHCS06020 | M6-1 x 20mm    | 100         | 1500     | FMSHCS10090 | M10-1.5 x 90mm  | 25          | 200      |
| FMSHCS06025 | M6-1 x 25mm    | 100         | 0        | FMSHCS10120 | M10-1.5 x 120mm | 25          | 150      |
| FMSHCS06030 | M6-1 x 30mm    | 100         | 1500     | FMSHCS12025 | M12-1.75 x 25mm | 50          | 300      |
| FMSHCS06035 | M6-1 x 35mm    | 100         | 1000     | FMSHCS12030 | M12-1.75 x 30mm | 50          | 250      |
| FMSHCS06040 | M6-1 x 40mm    | 100         | 1000     | FMSHCS12035 | M12-1.75 x 35mm | 50          | 250      |



# METRIC SOCKET HEAD CAP SCREWS

## CLASS 12.9 • COARSE THREAD • PLAIN FINISH • IMPORTED

| Part #      | Size             | Package Qty | Bulk Qty | Part #      | Size          | Package Qty | Bulk Qty |
|-------------|------------------|-------------|----------|-------------|---------------|-------------|----------|
| FMSHCS12040 | M12-1.75 x 40mm  | 50          | 0        | FMSHCS16030 | M16-2 x 30mm  | 25          | 150      |
| FMSHCS12050 | M12-1.75 x 50mm  | 50          | 200      | FMSHCS16035 | M16-2 x 35mm  | 25          | 125      |
| FMSHCS12060 | M12-1.75 x 60mm  | 50          | 200      | FMSHCS16040 | M16-2 x 40mm  | 25          | 125      |
| FMSHCS12070 | M12-1.75 x 70mm  | 50          | 160      | FMSHCS16045 | M16-2 x 45mm  | 25          | 100      |
| FMSHCS12080 | M12-1.75 x 80mm  | 25          | 0        | FMSHCS16050 | M16-2 x 50mm  | 25          | 0        |
| FMSHCS12100 | M12-1.75 x 100mm | 25          | 0        | FMSHCS16060 | M16-2 x 60mm  | 25          | 0        |
| FMSHCS12110 | M12-1.75 x 110mm | 25          | 0        | FMSHCS16070 | M16-2 x 70mm  | 25          | 0        |
| FMSHCS14030 | M14-2 x 30mm     | 25          | 250      | FMSHCS16080 | M16-2 x 80mm  | 20          | 0        |
| FMSHCS14040 | M14-2 x 40mm     | 25          | 200      | FMSHCS16090 | M16-2 x 90mm  | 20          | 75       |
| FMSHCS16025 | M16-2 x 25mm     | 25          | 150      | FMSHCS16100 | M16-2 x 100mm | 20          | 75       |

## CLASS 12.9 • FINE THREAD • PLAIN FINISH • IMPORTED

| Part #       | Size            | Package Qty | Bulk Qty |
|--------------|-----------------|-------------|----------|
| FMSHCSF10020 | M10-1.25 x 20mm | 50          | 600      |



## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #        | Size           | Package Qty | Bulk Qty |
|---------------|----------------|-------------|----------|
| FSSMSHCS05016 | M5-0.8 x 16mm  | 100         | 2500     |
| FSSMSHCS05025 | M5-0.8 x 25mm  | 100         | 2500     |
| FSSMSHCS06016 | M6-1 x 16mm    | 100         | 2000     |
| FSSMSHCS06020 | M6-1 x 20mm    | 100         | 1500     |
| FSSMSHCS06035 | M6-1 x 35mm    | 100         | 1000     |
| FSSMSHCS08025 | M8-1.25 x 25mm | 100         | 1000     |



## METRIC SOCKET FLAT HEAD CAP SCREWS

### TECHNICAL INFORMATION

#### DIMENSIONS

| Size | Allen Wrench Size | Head OD |       |
|------|-------------------|---------|-------|
|      |                   | Max     | Min   |
| M4   | 2.5               | 8       | 7.64  |
| M6   | 4                 | 12      | 11.57 |
| M8   | 5                 | 16      | 15.57 |
| M10  | 6                 | 20      | 19.48 |
| M12  | 8                 | 24      | 23.48 |
| M16  | 10                | 30      | 29.48 |

#### CLASS 10.9 ▪ COARSE THREAD ▪ PLAIN FINISH ▪ IMPORTED

Metric Socket Flat Head Cap Screws are manufactured to DIN 7991 specs.



| Part #       | Size             | Package Qty | Bulk Qty | Part #      | Size            | Package Qty | Bulk Qty |
|--------------|------------------|-------------|----------|-------------|-----------------|-------------|----------|
| FMSFCS025012 | M2.5-0.45 x 12mm | 100         | -        | FMSFCS06030 | M6-1 x 30mm     | 100         | 2000     |
| FMSFCS04008  | M4-0.7 x 8mm     | 100         | 2500     | FMSFCS06035 | M6-1 x 35mm     | 100         | 1500     |
| FMSFCS04010  | M4-0.7 x 10mm    | 100         | 2500     | FMSFCS06040 | M6-1 x 40mm     | 100         | 1500     |
| FMSFCS04012  | M4-0.7 x 12mm    | 100         | 2500     | FMSFCS08012 | M8-1.25 x 12mm  | 100         | 2000     |
| FMSFCS04016  | M4-0.7 x 16mm    | 100         | -        | FMSFCS08016 | M8-1.25 x 16mm  | 100         | 1500     |
| FMSFCS04020  | M4-0.7 x 20mm    | 100         | 2500     | FMSFCS08020 | M8-1.25 x 20mm  | 100         | 1500     |
| FMSFCS04025  | M4-0.7 x 25mm    | 100         | 2500     | FMSFCS08025 | M8-1.25 x 25mm  | 100         | 1000     |
| FMSFCS04030  | M4-0.7 x 30mm    | 100         | 2500     | FMSFCS08030 | M8-1.25 x 30mm  | 100         | 1000     |
| FMSFCS04035  | M4-0.7 x 35mm    | 100         | 2500     | FMSFCS10020 | M10-1.5 x 20mm  | 100         | 800      |
| FMSFCS05010  | M5-0.8 x 10mm    | 100         | 2500     | FMSFCS10025 | M10-1.5 x 25mm  | 100         | 700      |
| FMSFCS05012  | M5-0.8 x 12mm    | 100         | 2500     | FMSFCS10030 | M10-1.5 x 30mm  | 100         | 600      |
| FMSFCS05016  | M5-0.8 x 16mm    | 100         | 2500     | FMSFCS10040 | M10-1.5 x 40mm  | 100         | 500      |
| FMSFCS05020  | M5-0.8 x 20mm    | 100         | 2500     | FMSFCS10050 | M10-1.5 x 50mm  | 100         | 400      |
| FMSFCS05025  | M5-0.8 x 25mm    | 100         | 2500     | FMSFCS12020 | M12-1.75 x 20mm | 100         | 500      |
| FMSFCS05030  | M5-0.8 x 30mm    | 100         | 2500     | FMSFCS12030 | M12-1.75 x 30mm | 100         | 400      |
| FMSFCS05035  | M5-0.8 x 35mm    | 100         | 2500     | FMSFCS12035 | M12-1.75 x 35mm | 100         | 300      |
| FMSFCS06012  | M6-1 x 12mm      | 100         | 2500     | FMSFCS12040 | M12-1.75 x 40mm | 100         | 300      |
| FMSFCS06016  | M6-1 x 16mm      | 100         | 2500     | FMSFCS12050 | M12-1.75 x 50mm | 100         | 300      |
| FMSFCS06020  | M6-1 x 20mm      | 100         | 2500     | FMSFCS12060 | M12-1.75 x 60mm | 50          | 250      |
| FMSFCS06025  | M6-1 x 25mm      | 100         | 2200     |             |                 |             |          |

# METRIC SOCKET BUTTON HEAD CAP SCREW

## METRIC SOCKET BUTTON HEAD CAP SCREW

### TECHNICAL INFORMATION

#### DIMENSIONS

| Size | Allen Wrench Size | Head Height | Head Diameter |
|------|-------------------|-------------|---------------|
| M3   | M2                | 1.53        | 5.55          |
| M4   | M2.5              | 2.08        | 7.42          |
| M5   | M3                | 2.63        | 9.32          |
| M6   | M4                | 3.15        | 10.29         |
| M8   | M5                | 4.25        | 13.79         |
| M10  | M6                | 5.35        | 17.29         |
| M12  | M8                | 6.42        | 20.74         |
| M16  | M10               | 8.62        | 27.74         |

## METRIC SOCKET BUTTON HEAD CAP SCREW

### CLASS 12.9 ▪ COARSE THREAD ▪ PLAIN FINISH ▪ IMPORTED

Metric Socket Button Head Cap Screws are manufactured to ISO 7380 specs.



| Part #      | Size         | Package Qty | Bulk Qty | Part #      | Size          | Package Qty | Bulk Qty |
|-------------|--------------|-------------|----------|-------------|---------------|-------------|----------|
| FMSBCS04012 | M4-0.70 x 12 | 100         | 2500     | FMSBCS06055 | M6-1.00 x 55  | 100         | -        |
| FMSBCS04016 | M4-0.70 x 16 | 100         | 2500     | FMSBCS08016 | M8-1.25 x 16  | 100         | 1500     |
| FMSBCS04020 | M4-0.70 x 20 | 100         | 2500     | FMSBCS08020 | M8-1.25 x 20  | 100         | 1500     |
| FMSBCS04025 | M4-0.70 x 25 | 100         | 2500     | FMSBCS08025 | M8-1.25 x 25  | 100         | 1000     |
| FMSBCS04030 | M4-0.70 x 30 | 100         | -        | FMSBCS08035 | M8-1.25 x 35  | 100         | 1000     |
| FMSBCS05010 | M5-0.80 x 10 | 100         | 2500     | FMSBCS08040 | M8-1.25 x 40  | 100         | 800      |
| FMSBCS05012 | M5-0.80 x 12 | 100         | 2500     | FMSBCS10016 | M10-1.50 x 16 | 100         | 1000     |
| FMSBCS05016 | M5-0.80 x 16 | 100         | 2500     | FMSBCS10020 | M10-1.50 x 20 | 100         | 800      |
| FMSBCS05020 | M5-0.80 x 20 | 100         | 2500     | FMSBCS10025 | M10-1.50 x 25 | 100         | 700      |
| FMSBCS05025 | M5-0.80 x 25 | 100         | 2500     | FMSBCS10030 | M10-1.50 x 30 | 100         | 500      |
| FMSBCS05030 | M5-0.80 x 30 | 100         | 2500     | FMSBCS10035 | M10-1.50 x 35 | 100         | 500      |
| FMSBCS06012 | M6-1.00 x 12 | 100         | 2500     | FMSBCS10040 | M10-1.50 x 40 | 100         | 400      |
| FMSBCS06016 | M6-1.00 x 16 | 100         | 2500     | FMSBCS12025 | M12-1.75 x 25 | 100         | 500      |
| FMSBCS06020 | M6-1.00 x 20 | 100         | 2500     | FMSBCS12030 | M12-1.75 x 30 | 100         | 400      |
| FMSBCS06025 | M6-1.00 x 25 | 100         | 2000     | FMSBCS12035 | M12-1.75 x 35 | 100         | -        |
| FMSBCS06030 | M6-1.00 x 30 | 100         | 2000     | FMSBCS12040 | M12-1.75 x 40 | 100         | 300      |
| FMSBCS06045 | M6-1.00 x 45 | 100         | 1500     | FMSBCS12050 | M12-1.75 x 50 | 100         | 250      |

## CLASS 12.9 ▪ COARSE THREAD ▪ ZINC PLATED ▪ IMPORTED

| Part #       | Size         | Package Qty | Bulk Qty |
|--------------|--------------|-------------|----------|
| FMSBCSZ06025 | M6-1.00 x 25 | 100         | 2000     |
| FMSBCSZ08030 | M8-1.25 x 30 | 100         | 1000     |



## 18-8 STAINLESS STEEL ▪ COARSE THREAD ▪ IMPORTED

| Part #        | Size         | Package Qty | Bulk Qty |
|---------------|--------------|-------------|----------|
| FSSMSBCS05008 | M5-0.80 x 8  | 100         | 2500     |
| FSSMSBCS06008 | M6-1.00 x 8  | 100         | 2500     |
| FSSMSBCS06020 | M6-1.00 x 20 | -           | -        |
| FSSMSBCS08025 | M8-1.25 x 25 | 100         | 1000     |



## METRIC SOCKET SET SCREWS

## TECHNICAL INFORMATION

### DIMENSIONS

| Size | Allen Wrench Size | Point Diameter |
|------|-------------------|----------------|
|      |                   | Max            |
| M3   | 1.5               | 1.4            |
| M4   | 2                 | 2              |
| M5   | 2.5               | 2.5            |
| M6   | 3                 | 3              |
| M8   | 4                 | 5              |
| M10  | 5                 | 6              |
| M12  | 6                 | 8              |

# METRIC SOCKET SET SCREWS, METRIC HEX WELD NUTS

## CUP POINT • COARSE THREAD • PLAIN FINISH • IMPORTED

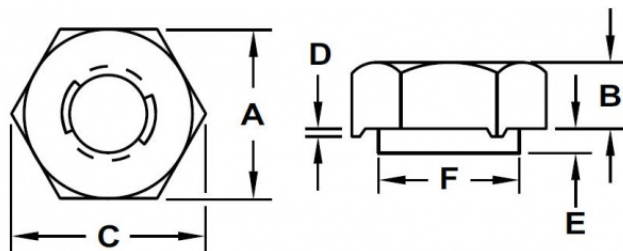
Metric Socket Set Screws Cup Point are manufactured to DIN 916 specs.



| Part #     | Size          | Package Qty | Bulk Qty | Part #     | Size            | Package Qty | Bulk Qty |
|------------|---------------|-------------|----------|------------|-----------------|-------------|----------|
| FMSSSO0403 | M4-0.7 x 3mm  | 100         | -        | FMSSSO0810 | M8-1.25 x 10mm  | 100         | 5000     |
| FMSSSO0404 | M4-0.7 x 4mm  | 100         | 5000     | FMSSSO0816 | M8-1.25 x 16mm  | 100         | 5000     |
| FMSSSO0505 | M5-0.8 x 5mm  | 100         | 5000     | FMSSSO1010 | M10-1.5 x 10mm  | 50          | 5000     |
| FMSSSO0506 | M5-0.8 x 6mm  | 100         | 5000     | FMSSSO1012 | M10-1.5 x 12    | 50          | 5000     |
| FMSSSO0512 | M5-0.8 x 12mm | 100         | 5000     | FMSSSO1016 | M10-1.5 x 16mm  | 50          | 3000     |
| FMSSSO0606 | M6-1 x 6mm    | 100         | 5000     | FMSSSO1020 | M10-1.5 x 20mm  | 50          | 3000     |
| FMSSSO0610 | M6-1 x 10mm   | 100         | -        | FMSSSO1216 | M12-1.75 x 16mm | 50          | 1000     |
| FMSSSO0616 | M6-1 x 16mm   | 100         | -        | FMSSSO1220 | M12-1.75 x 20mm | 50          | 1000     |
| FMSSSO0620 | M6-1 x 20mm   | 100         | -        | FMSSSO1230 | M12-1.75 x 30mm | 50          | -        |
| FMSSSO0808 | M8-1.25 x 8mm | 100         | 5000     |            |                 |             |          |

## METRIC HEX WELD NUTS

## TECHNICAL INFORMATION



| Size    | A    | B      | C       | D      | E      | F       |
|---------|------|--------|---------|--------|--------|---------|
| M5-0.8  | 10mm | 4mm    | 10.95mm | 0.40mm | 0.70mm | 7mm     |
| M6-1.0  | 13mm | 5.50mm | 14.3mm  | 0.80mm | 1.60mm | 9.10mm  |
| M8-1.25 | 15mm | 7mm    | 16.60mm | 1mm    | 1.80mm | 11.10mm |
| M10-1.5 | 18mm | 8mm    | 20mm    | 1mm    | 1.80mm | 13.60mm |
| M16     | 26mm | 13mm   | 28.90mm | 0.75mm | 1.36mm | 20.60mm |

## PLAIN FINISH • MADE IN USA

| Part #   | Size    | Farm Pack Qty | Package Qty | Bulk Qty |
|----------|---------|---------------|-------------|----------|
| FMHWNLO5 | M5-0.8  | 20            | 100         | -        |
| FMHWNLO6 | M6-1.0  | 20            | 100         | 3500     |
| FMHWNLO8 | M8-1.25 | 20            | 100         | 2000     |
| FMHWNL10 | M10-1.5 | 10            | 50          | 2000     |
| FMHWNL16 | M16-1.0 | -             | -           | -        |



## 18-8 STAINLESS STEEL • MADE IN USA

| Part #     | Size    | Farm Pack Qty | Package Qty | Bulk Qty |
|------------|---------|---------------|-------------|----------|
| FSSMHWNL04 | M4-1.0  | 20            | 100         | 1000     |
| FSSMHWNL05 | M5-0.8  | 20            | 100         | 1000     |
| FSSMHWNL06 | M6-1.0  | 20            | 100         | 1000     |
| FSSMHWNL08 | M8-1.25 | 20            | 100         | 1000     |



## METRIC RIVET NUTS

### ZINC PLATED • IMPORTED

| Part #      | Size           | OAL     | Package Qty |
|-------------|----------------|---------|-------------|
| FMRN058033  | M5 x 0.5-3.3mm | 12.07mm | 100         |
| FMRN061042  | M6 x 0.5-4.2mm | 14.73mm | 100         |
| FMRN0812538 | M8 x 0.5-3.8mm | 17.53mm | 100         |



## METRIC SPRING PINS



| Part #      | Size        | Package Qty | Part #       | Size       | Package Qty |
|-------------|-------------|-------------|--------------|------------|-------------|
| FMSPPO15010 | M1.5 X 10mm | 25          | FMSPPO50026  | M5 X 26mm  | 25          |
| FMSPPO15016 | M1.5 X 16mm | 25          | FMSPPO50036  | M5 X 36mm  | 25          |
| FMSPPO20010 | M2 X 10mm   | 25          | FMSPPO50040  | M5 X 40mm  | 25          |
| FMSPPO20020 | M2 X 20mm   | 25          | FMSPPO50050  | M5 X 50mm  | 25          |
| FMSPPO25016 | M2.5 X 16mm | 25          | FMSPPO60028  | M6 X 28mm  | 25          |
| FMSPPO25026 | M2.5 X 26mm | 25          | FMSPPO60040  | M6 X 40mm  | 25          |
| FMSPPO30016 | M3 X 16mm   | 25          | FMSPPO60050  | M6 X 50mm  | 25          |
| FMSPPO30026 | M3 X 26mm   | 25          | FMSPPO80030  | M8 X 30mm  | 25          |
| FMSPPO30040 | M3 X 40mm   | 25          | FMSPPO80050  | M8 X 50mm  | 25          |
| FMSPPO40024 | M4 X 24mm   | 25          | FMSPPO100030 | M10 X 30mm | 10          |
| FMSPPO40030 | M4 X 30mm   | 25          | FMSPPO100050 | M10 X 50mm | 10          |
| FMSPPO40040 | M4 X 40mm   | 25          | FMSPPO120060 | M12 X 60mm | 10          |

# THREADED WOOD INSERTS, THREAD REPAIR

## THREADED WOOD INSERTS

### FLANGED • ZINC • DIE CAST • IMPORTED

Threaded wood inserts provide an easy way to put threads into wood. Simply drill a hole and drive the insert into the wood using its internal hex drive. They are manufactured from die cast zinc. Size is given as the internal thread by the over all length. The hole size that is given is the hole size you drill in the wood to place the insert.

| Part #    | Size           | Hole Size | Hex Drive | Package Qty |
|-----------|----------------|-----------|-----------|-------------|
| FTIHF1011 | 10-24 x 11mm   | 7mm       | M5        | 100         |
| FTIHF413  | 1/4-20 x 13mm  | 9mm       | M6        | 100         |
| FTIHF513  | 5/16-18 x 13mm | 11mm      | M8        | 100         |



## THREAD REPAIR

### E-Z COIL™ INSERTS

E-Z Coil™ inserts – also known as wire or helical threaded inserts – quickly repair or reinforce tapped holes in soft metals. Made from 18-8 stainless steel wire, E-Z Coil™ inserts provide strong internal threads that are corrosion resistant and withstand temperatures to 800°F. E-Z Coil™ inserts are made of 18-8 stainless steel wire. The wire is formed into a diamond pattern and then wound into a spring. Before being installed, the insert diameter is larger than the tapped hole. The insert diameter is reduced during installation, allowing the insert to thread into the hole. Once properly installed, the radial pressure of the released insert holds the insert firmly in place.



| Part #    | Size    | Length | Free OD MIN | Free OD MAX | Drill Size | Part #     | Size     | Length | Free OD MIN | Free OD MAX | Drill Size |
|-----------|---------|--------|-------------|-------------|------------|------------|----------|--------|-------------|-------------|------------|
| FTCI20615 | #10-24  | 0.281  | .240        | 2.48        | 13/64      | FTCI31215  | 1/2-20   | 0.75   | .567        | .577        | 33/64      |
| FTCI20815 | 1/4-20  | 0.375  | .314        | .328        | 17/64      | FTCI31415  | 5/8-18   | 0.938  | .694        | .706        | 41/64      |
| FTCI20915 | 5/16-18 | 0.47   | .384        | .392        | 21/64      | FTCI31515  | 3/4-16   | 1.125  | .831        | .841        | 49/64      |
| FTCI21015 | 3/8-16  | 0.563  | .455        | .463        | 25/64      | FMTCI40415 | M4-0.7   | 6mm    | 4.8         | 4.9         | 4.1        |
| FTCI21115 | 7/16-14 | 0.656  | .530        | .538        | 29/64      | FMTCI40515 | M5-0.8   | 7.5mm  | 6.0         | 6.2         | 5.2        |
| FTCI21215 | 1/2-13  | 0.75   | .600        | .610        | 33/64      | FMTCI40615 | M6-1     | 9mm    | 7.3         | 7.4         | 6.2        |
| FTCI21415 | 5/8-11  | 0.938  | .742        | .752        | 21/32      | FMTCI40815 | M8-1.25  | 12mm   | 9.7         | 9.9         | 8.3        |
| FTCI21515 | 3/4-10  | 1.125  | .880        | .892        | 25/32      | FMTCI40915 | M10-1.5  | 15mm   | 11.9        | 12.1        | 10.3       |
| FTCI30615 | #10-32  | 0.281  | .233        | .241        | 13/64      | FMTCI41015 | M12-1.75 | 18mm   | 14.3        | 14.5        | 12.4       |
| FTCI30815 | 1/4-28  | 0.375  | .299        | .307        | 17/64      | FMTCI41215 | M16-2    | 24mm   | 18.6        | 18.9        | 16.5       |
| FTCI30915 | 5/16-24 | 0.47   | .370        | .378        | 21/64      | FMTCI50915 | M10-1.25 | 15mm   | 11.6        | 11.9        | 10.3       |
| FTCI31015 | 3/8-24  | 0.563  | .433        | .441        | 25/64      | FMTCI51015 | M12-1.5  | 18mm   | 13.9        | 14.3        | 12.4       |
| FTCI31115 | 7/16-20 | 0.656  | .507        | .515        | 29/64      |            |          |        |             |             |            |

## E-Z LOK™ SOLID WALL INSERTS

E-Z LOK™ (Solid Wall) Threaded Inserts for Metal repair or reinforce holes in aluminum, magnesium, and cast iron using standard drills and taps—no special tools required. They install quickly with a screwdriver, bolt/jam nut (except IC series), or power drive tool, and their pre-applied adhesive sets in 3–5 minutes, fully curing in 72 hours to seal against liquids and gases up to 6,000 psi. Resistant to vibration, the inserts can be removed with a bolt extractor or by heating above 300°F (149°C) to release the adhesive.



| Part #     | Size    | External Thread | Length | Drill Size | Min Full Thread Depth | Part #                                                                             | Size     | External Thread | Length | Drill Size | Min Full Thread Depth |
|------------|---------|-----------------|--------|------------|-----------------------|------------------------------------------------------------------------------------|----------|-----------------|--------|------------|-----------------------|
| FTI329-3   | 10-24   | 3/8-16          | .406   | 5/16       | 15/32                 | FTI329-820                                                                         | 1/2-20   | 3/4-10          | .656   | 21/32      | 3/4                   |
| FTI329-4   | 1/4-20  | 7/16-14         | .437   | 23/64      | 1/2                   | FTI329-10F                                                                         | 5/8-18   | 7/8-9           | .687   | 49/64      | 13/16                 |
| FTI329-5   | 5/16-18 | 1/2-13          | .484   | 27/64      | 9/16                  | FTI329-1216                                                                        | 3/4-16   | 1-8             | .781   | 7/8        | 7/8                   |
| FTI329-6   | 3/8-16  | 9/16-12         | .515   | 31/64      | 19/32                 | FTI450-4                                                                           | M4-0.7   | M8-1.25         | .295   | 6.9mm      | 9mm                   |
| FTI329-7   | 7/16-14 | 5/8-11          | .656   | 17/32      | 23/32                 | FTI450-5                                                                           | M5-0.8   | M8-1.25         | .295   | 6.9mm      | 9mm                   |
| FTI329-8   | 1/2-13  | 3/4-10          | .656   | 21/32      | 3/4                   | FTI650-6                                                                           | M6-1     | 3/8-16          | .406   | 5/16       | 15/32                 |
| FTI329-10  | 5/8-11  | 7/8-9           | .687   | 49/64      | 13/16                 | FTI650-8                                                                           | M8-1.25  | 1/2-13          | .484   | 27/64      | 9/16                  |
| FTI329-12  | 3/4-10  | 1-8             | .781   | 7/8        | 7/8                   | FTI650-10                                                                          | M10-1.5  | 9/16-12         | .515   | 31/64      | 19/32                 |
| FTI329-332 | 10-32   | 3/8-16          | .406   | 5/16       | 15/32                 | FTI650-12                                                                          | M12-1.75 | 3/4-10          | .656   | 21/32      | 3/4                   |
| FTI329-428 | 1/4-28  | 7/16-14         | .437   | 23/64      | 1/2                   | FTI650-14                                                                          | M14-2.0  | 7/8-9           | .687   | 49/64      | 13/16                 |
| FTI329-524 | 5/16-24 | 1/2-13          | .484   | 27/64      | 9/16                  | FTI650-16                                                                          | M16-2.0  | 1-8             | .781   | 7/8        | 7/8                   |
| FTI329-624 | 3/8-24  | 9/16-12         | .515   | 31/64      | 19/32                 | FTI650-10F                                                                         | M10-1.25 | 9/16-12         | .515   | 31/64      | 19/32                 |
| FTI329-720 | 7/16-20 | 5/8-11          | .656   | 17/32      | 23/32                 | Drive tools are available for high volume E-Z Lok™ Solid Wall Insert installation. |          |                 |        |            |                       |

## FASTENER ASSORTMENTS

### DRAWER ASSORTMENTS

WE HAVE ASSORTMENTS FOR MANY SMALL PARTS, ASSORTMENTS ARE CUSTOMIZABLE IF THEY DON'T FIT YOUR NEEDS PERFECTLY. Let our assortments save you money by: 1. Keeping things organized. Having everything you need in neat well organized drawers means you don't have to go searching when you need it. 2. Saving trips to the store. When you spend half an hour to run for a few tiny parts it quickly eats into your day and puts you behind schedule. 3. Paying lower prices for the product. The prices you pay us are typically a significant savings over buying them retail when you run after them. GO ONLINE FOR DETAILS OR CALL US AND WE WILL SEND YOU DETAILS ON ANY ASSORTMENT.



| Part #   | Description                                      | Part #   | Description                                                                 |
|----------|--------------------------------------------------|----------|-----------------------------------------------------------------------------|
| FBPA95   | Bridge Pin Assortment 95 pc 6 sizes              | FFNSA775 | Serrated Flange Nut & Screw Assortment 775 Pc 16 sizes                      |
| FCLA38   | Clevis Pin Assortment 38 pc 12 sizes             | FH5A1510 | Grade 5 Fastener Assortment 1510 pcs 1/4, 5/16, 3/8 (#24 Comp Drawer)       |
| FCPA1240 | Cotter Pin Assortment 1240 pc 24 sizes           | FH8A785  | Grade 8 Fastener Assortment 785 Pieces 1/4, 5/16, 3/8, 1/2 (24 Comp Drawer) |
| FCA50    | Cotter Pin Assortment Larger Sizes 50 pc 6 sizes | FLNCA900 | Gr C Lock Nut Assortment Coarse & Fine Thread 1/4-3/4                       |
| FCA725   | Cotter Pin Assortment 725 pc 12 sizes            | FLNNASM  | Nylon Lock Nut Assortment-Standard & Metric                                 |
| FECA325  | E Clip Assortment 325 pc 13 sizes                | FLPA48   | Lock Pin Assortment 48 pc 11 sizes                                          |
| FFWA550  | Fender Washer Assortment 550 pc 22 sizes         |          |                                                                             |



# FASTENER ASSORTMENTS

## DRAWER ASSORTMENTS

| Part #      | Description                                                            |
|-------------|------------------------------------------------------------------------|
| FMBNOA86    | Narrow Rim Machinery Bushing 10 Ga Assortment 86 pc 12 sizes           |
| FMBN4A280   | Narrow Rim Machinery Bushing 14 Ga Assortment 280 pc 14 sizes          |
| FMBN8A85    | Narrow Rim Machinery Bushing 18 Ga Assortment 85 pc 12 sizes           |
| FMBNA488    | Narrow Rim Machinery Bushing Assortment 488 pc 43 sizes                |
| FMBWA105    | Wide Rim Machinery Bushing Assortment 105 pc 21 sizes                  |
| FMHOA675    | Metric Hex Cap Screw Class 10.9 Assortment M6-M12 (24 Comp 675 Pieces) |
| FMHA8040506 | Metric Hex Cap Screws Class 8.8 Assortment M4 M5 M6                    |
| FMHA80810   | Metric Hex Cap Screws Class 8.8 Assortment M8 & M10                    |
| FMHAS1090   | Metric Hex Cap Screws Class 8.8 Assortment Small Sizes 1,090 pcs M4-M8 |
| FMSHCSA240  | Metric Socket Head Cap Screw Assortment M4-M12 240 pc 24 sizes         |
| FMSPPA395   | Metric Spring Pin Assortment 395 pc 24 sizes                           |
| FMSPPMA770  | Metric Phillips Pan Head Machine Screw Zinc Assortment 770 pc 24 sizes |
| FMSSSOA275  | Metric Cup Point Socket Set Screw Assortment 275 pc 12 Sizes           |
| FMSSSOA425  | Metric Cup Point Socket Set Screw Assortment 425 pc 18 Sizes           |
| FPRA1550    | Pop Rivet Assortment Aluminum and Steel 24 Sizes 1550 pc               |
| FPRA1850    | Pop Rivet Assortment Aluminum and Steel 24 Sizes 1850 pc               |
| FPRA270     | Pop Rivet Assortment Aluminum and Steel 12 Sizes 270 pc                |
| FPRSSA1850  | Pop Rivet Assortment Aluminum and Stainless Steel 24 Sizes 1850 pc     |
| FQRWA34     | Quick Repair Washer Assortment 34 pc 9 sizes                           |
| FRRA90      | Retaining Ring Assortment External/Internal 1/4-1                      |
| FRREA345    | External Retaining Ring Assortment 1/4 to 2 1/4 345 pc                 |
| FRRIA205    | Internal Retaining Ring Assortment Special 205 pcs                     |
| FRRIA330    | Internal Retaining Ring Assortment 3/8 to 2 3/4 328pc                  |
| FSFCSA675   | Flat Socket Head Cap Screw Assortment 675 pc 24 sizes                  |
| FSHCSA210   | Socket Head Cap Screw Assortment Metric & Standard 210 pc. 24 sizes    |
| FSHCSA490   | Socket Head Cap Screw Assortment 490 pc. 24 sizes                      |
| FSHCSA72    | Socket Head Cap Screw Assortment 72 pc. 18 sizes                       |
| FSHCSAC260  | Socket Head Cap Screw Assortment Standard Coarse & Fine Metric Coarse  |
| FSHCSFA505  | Socket Head Cap Screw Assortment Fine Thread                           |
| FSHWSMA24   | Hex Washer Head Sheet Metal Screw Assortment - 24 Sizes                |
| FSPA145     | Spring Pin Assortment 145 pc 12 sizes                                  |

| Part #        | Description                                                                                            |
|---------------|--------------------------------------------------------------------------------------------------------|
| FSPA480       | Spring Pin Assortment 480 pc 24 sizes                                                                  |
| FSPDMA1200    | Phillips Pan Head Machine Screw Zinc Assortment 1200 pc 24 sizes                                       |
| FSPDMA3150    | Phillips Pan Head Machine Screw Zinc Assortment 3150 pc 32 sizes                                       |
| FSPDMA5500    | Phillips Pan Head Machine Screw Zinc Assortment 5500 pc 64 sizes                                       |
| FSPPSDA2300   | Phillips Pan Head Self Drilling Screw Zinc Assortment 2300 pc 23 sizes                                 |
| FSPPSMA1925   | Phillips Pan Head Sheet Metal Screw Zinc Assortment 1925 pc 23 sizes                                   |
| FSPSA480      | Spiral Spring Pin Assortment 480 pc 24 sizes                                                           |
| FSSFKA        | Square Drive Flat Head Wood Screw Assortment 1290 Pieces 20 sizes                                      |
| FSSHA1075     | 18/8 Stainless Steel Hex Cap Screw Assortment w/Washer, Lock Washer, Hex Nut 1075 pieces 24 sizes      |
| FSSRWVA       | Round Washer Head Wood Screw Assortment pc 24 sizes                                                    |
| FSSSOA200     | Socket Set Screw Cup Point Coarse & Fine Thread Assortment 200 pc 12 Sizes                             |
| FSSSOA390     | Socket Set Screw Cup Point Coarse & Fine Thread Assortment 390 pc 18 Sizes                             |
| FSSSOA465     | Socket Set Screw Cup Point Coarse & Fine Thread Assortment 465 pc 21 Sizes                             |
| FSSSOKPA390   | Socket Set Screw Cup Point Coarse & Fine Thread Knurled Point Assortment 390 pc 18 Sizes               |
| FSSSPPMA1500  | Phillips Pan Head Machine Screw Stainless Steel Assortment 1500 pc 24 sizes                            |
| FSSSPPSMA1025 | Phillips Pan Head Sheet Metal Screw Stainless Steel Assortment 1025 pcs/24 sizes                       |
| FSSSQ330      | Square Head Set Screw Cup Point Coarse Thread Assortment 330 pc 24 Sizes                               |
| FSSSBD4545    | Square Drive Bugle Head Deck Screw Assortment Stainless Steel 454 Pieces 10 Sizes                      |
| FSSTA725      | Hex Washer Head Self Drilling Screw Stainless Steel Assortment                                         |
| FSSWA1525     | Square Drive Round Washer & Flat Head Wood Screw Assortment 1525 Pieces 24 sizes                       |
| FSTSBA        | Automotive Tapping Screw Assortment-Black 32 Sizes                                                     |
| FTIEZ-C107    | E-Z LOK Assortment kit - Carbon Steel - 10-24 to 7/16-14                                               |
| FTIEZ-C816    | E-Z LOK Assortment kit - Carbon Steel - 1/2-13 to 1-8                                                  |
| FTIEZM508     | EZ-M508 E-Z LOK Threaded Insert Assortment Kit for Metal - Carbon Steel - 10-24 to 1/2-13 (550 Series) |
| FTSA1935      | Hex Washer Head Self Drilling Screw Assortment 1935 pc 24 sizes                                        |
| FTSA430       | Hex Washer Head Self Drilling Screw Assortment 430 pc 12 sizes                                         |
| FWKA126       | Woodruff Key Assortment 126 pc                                                                         |
| FWKA52        | Woodruff Key Assortment 52 pc                                                                          |

## BIN ASSORTMENTS



| Part # | Description                                                                                  | Part #   | Description                                                                                      |
|--------|----------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------|
| FC2ASF | CARRIAGE GRADE 2 SILVER FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (40 HOLE BIN RECOMMENDED)    | FH8ASS   | HEX CAP GRADE 8 SILVER SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (72 HOLE BIN RECOMMENDED)         |
| FC2ASS | CARRIAGE GRADE 2 SILVER SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (40 HOLE BIN RECOMMENDED)    | FH8AGF   | HEX CAP GRADE 8 GOLD FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (40 & 72 HOLE BINS RECOMMENDED)     |
| FC2AGF | CARRIAGE GRADE 2 GOLD FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (72 HOLE BIN RECOMMENDED)      | FH8AGS   | HEX CAP GRADE 8 GOLD SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (40 & 72 HOLE BINS RECOMMENDED)     |
| FC2AGS | CARRIAGE GRADE 2 GOLD SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (72 HOLE BIN RECOMMENDED)      | FSSHASF  | HEX CAP SS SILVER FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (40 HOLE BIN RECOMMENDED)              |
| FC5ASF | CARRIAGE GRADE 5 SILVER FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (40 HOLE BIN RECOMMENDED)    | FSSHASS  | HEX CAP SS SILVER SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (40 HOLE BIN RECOMMENDED)              |
| FC5ASS | CARRIAGE GRADE 5 SILVER SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (40 HOLE BIN RECOMMENDED)    | FSSHASGF | HEX CAP SS SAE GOLD FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (72 HOLE BIN RECOMMENDED)            |
| FC5AGF | CARRIAGE GRADE 5 GOLD FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (72 HOLE BIN RECOMMENDED)      | FMH8ABF  | HEX CAP METRIC 8.8 BRONZE FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (40 HOLE BIN RECOMMENDED)      |
| FC5AGS | CARRIAGE GRADE 5 GOLD SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (72 HOLE BIN RECOMMENDED)      | FMH8ABS  | HEX CAP METRIC 8.8 BRONZE SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (40 HOLE BIN RECOMMENDED)      |
| FH5ABF | HEX CAP GRADE 5 BRONZE FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (40 HOLE BIN RECOMMENDED)     | FMH8ASF  | HEX CAP METRIC 8.8 SILVER FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (72 HOLE BIN RECOMMENDED)      |
| FH5ABS | HEX CAP GRADE 5 BRONZE SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (40 HOLE BIN RECOMMENDED)     | FMH8ASS  | HEX CAP METRIC 8.8 SILVER SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (72 HOLE BIN RECOMMENDED)      |
| FH5ASF | HEX CAP GRADE 5 SILVER FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (72 HOLE BIN RECOMMENDED)     | FMH8AGF  | HEX CAP METRIC 8.8 GOLD FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (40 & 72 HOLE BINS RECOMMENDED)  |
| FH5ASS | HEX CAP GRADE 5 SILVER SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (72 HOLE BIN RECOMMENDED)     | FMH8AGS  | HEX CAP METRIC 8.8 GOLD SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (40 & 72 HOLE BINS RECOMMENDED)  |
| FH5AGF | HEX CAP GRADE 5 GOLD FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (40 & 72 HOLE BINS RECOMMENDED) | FMHOABS  | HEX CAP METRIC 10.9 BRONZE SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (40 HOLE BIN RECOMMENDED)     |
| FH5AGS | HEX CAP GRADE 5 GOLD SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (40 & 72 HOLE BINS RECOMMENDED) | FMHOASF  | HEX CAP METRIC 10.9 SILVER FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (72 HOLE BIN RECOMMENDED)     |
| FH8ABF | HEX CAP GRADE 8 BRONZE FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (40 HOLE BIN RECOMMENDED)     | FMHOASS  | HEX CAP METRIC 10.9 SILVER SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (72 HOLE BIN RECOMMENDED)     |
| FH8ABS | HEX CAP GRADE 8 BRONZE SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (40 HOLE BIN RECOMMENDED)     | FMHOAGF  | HEX CAP METRIC 10.9 GOLD FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (40 & 72 HOLE BINS RECOMMENDED) |
| FH8ASF | HEX CAP GRADE 8 SILVER FARM ASSORTMENT (BOLT BIN NOT INCLUDED) (72 HOLE BIN RECOMMENDED)     | FMHOAGS  | HEX CAP METRIC 10.9 GOLD SHOP ASSORTMENT (BOLT BIN NOT INCLUDED) (40 & 72 HOLE BINS RECOMMENDED) |

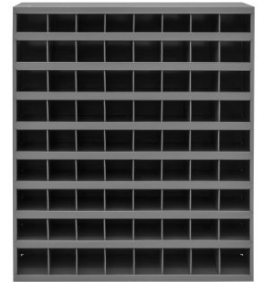
## OPEN FRONT BINS, DRAWER BINS

### OPEN FRONT BINS

#### 72 HOLE • 42 HOLE • 40 HOLE • 12 HOLE

Open Front Bins are constructed of heavy duty steel and all parts are interlocked. They come standard with a gray baked on enamel finish and have a one inch hemmed lip across the front of all bins.

| Part #  | Dimensions (WxDxH)       | Bin Openings | Hole Configuration | Compartment Size |
|---------|--------------------------|--------------|--------------------|------------------|
| EQBB72  | 33-13/16 x 11-15/16 x 42 | 72           | 8 ACROSS X 9 HIGH  | 4 x 4-1/2        |
| EQBB729 | 33-13/16 x 8-1/2 x 42    | 72           | 8 ACROSS X 9 HIGH  | 3-7/8 x 4-1/2    |
| EQBB42  | 33-13/16 x 11-15/16 x 42 | 42           | 6 ACROSS X 7 HIGH  | 5-3/8 x 5-7/16   |
| EQBB40  | 33-13/16 x 11-15/16 x 24 | 40           | 8 ACROSS X 5 HIGH  | 4 x 4-1/2        |
| EQBB12  | 33-13/16 x 11-15/16 x 24 | 12           | 4 ACROSS X 3 HIGH  | 8 x 7-11/16      |



#### BASE FOR OPEN FRONT BINS

| Part # | Description                                            | Dimensions (WxDxH)       |
|--------|--------------------------------------------------------|--------------------------|
| EQBBB  | Compatible with all our open front bins except EQBB729 | 34-1/16 x 12-1/8 x 5-3/4 |



### DRAWER BINS

#### 24 DRAWER BIN

Drawer Bins are constructed of heavy duty steel and come standard with a gray baked on enamel finish. They feature drawer stops so drawers are not removed accidentally. The drawers measure 5 3/8"W X 2 3/4"H X 11 1/4"D and have partition slots on one inch centers.

| Part #  | Size                            | # of Drawers | # of Partitions |
|---------|---------------------------------|--------------|-----------------|
| EQBB24D | 33-13/16W x 12-5/16D x 14-5/16H | 24           | 48              |



#### 18 DRAWER BIN

| Part #  | Size                           | # of Drawers | # of Partitions |
|---------|--------------------------------|--------------|-----------------|
| EQBB18D | 33-13/16W x 12-5/16D x 10-7/8H | 18           | 36              |



#### 6 DRAWER BIN

| Part # | Size                         | # of Drawers | # of Partitions |
|--------|------------------------------|--------------|-----------------|
| EQBB6D | 11-3/4W x 12-5/16D x 10-7/8H | 6            | 6               |



## ACCESSORIES FOR BINS

| Part # | Description                             |
|--------|-----------------------------------------|
| EQDRC  | REPLACEMENT DRAWER FOR DRAWER BINS      |
| EQDRD  | PLASTIC DIVIDERS FOR DRAWER BIN DRAWERS |
| EQDRDM | METAL DIVIDERS FOR DRAWER BIN DRAWERS   |



## METAL DRAWERS &amp; RACKS

## STANDARD SLIDE RACK

Slide Racks are constructed of heavy duty steel and come standard with a gray baked on enamel finish. The standard slide rack comes with triple track slides and the premium slide rack comes with ball bearing slides. The scoop trays come separately and are removable from the slide rack. The scoop trays are built with a metal shell and a plastic insert and come in varying configurations.

| Part # | Size                |
|--------|---------------------|
| EQRK   | 20W x 15-7/8D x 15H |



## PREMIUM SLIDE RACK

| Part # | Size                         |
|--------|------------------------------|
| EQRKBB | 20-5/16W x 12-5/8D x 14-7/8H |



## BASE FOR PREMIUM SLIDE RACK

| Part #  | Size                    |
|---------|-------------------------|
| EQRKBBB | 20-3/4W x 12-3/4D x 15H |



## SCOOP TRAYS

| Part # | Description                         |
|--------|-------------------------------------|
| EQDR16 | 16 COMPARTMENT SCOOP TRAY           |
| EQDR20 | 20 COMPARTMENT SCOOP TRAY           |
| EQDR21 | 21 COMPARTMENT SCOOP TRAY           |
| EQDR24 | 24 COMPARTMENT SCOOP TRAY           |
| EQDR32 | 32 COMPARTMENT SCOOP TRAY           |
| EQDR6H | 6 HORIZONTAL COMPARTMENT SCOOP TRAY |
| EQDR6V | 6 VERTICAL COMPARTMENT SCOOP TRAY   |
| EQDRAD | ADJUSTABLE COMPARTMENT SCOOP TRAY   |

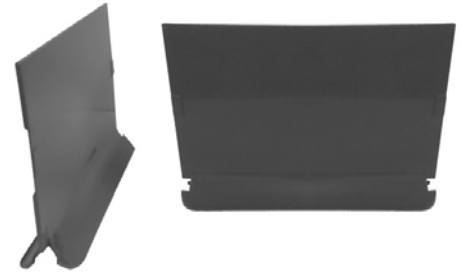


Scoop trays are 18"W X 3"H X 12"D and are available in the six configurations shown.

# METAL DRAWERS & RACKS, CABINETS, PLASTIC COMPARTMENT DRAWERS

## ACCESSORIES FOR SCOOP TRAYS

| Part #   | Description                                     |
|----------|-------------------------------------------------|
| EQDRSDL  | DIVIDERS FOR ADJUSTABLE COMPARTMENT SCOOP TRAYS |
| EQDRST20 | 20 Comp. Scoop Tray for 18X12 Metal Drawer      |



## CABINETS

| Part #         | Description                                                      | Dimensions (WxDxH)       |
|----------------|------------------------------------------------------------------|--------------------------|
| EQBB060-95-WFS | Wall Mountable, Storage Cabinet, 1 Shelf, Door Pockets, Lockable | 33-3/4 x 11-7/8 x 23-7/8 |



## PLASTIC COMPARTMENT DRAWERS

| Part #    | Dimensions (WxDxH)  | Compartments |
|-----------|---------------------|--------------|
| EQDRPL04  | 2-7/8 x 1 x 4-5/8   | 4            |
| EQDRPL06  | 8 x 4 x 1-3/8       | 6            |
| EQDRPL06L | 11 x 6-3/4 x 1-3/4  | 6            |
| EQDRPL12  | 11 x 6-3/4 x 1-3/4  | 12           |
| EQDRPL12L | 13-1/8 x 9 x 2-5/16 | 12*          |
| EQDRPL18  | 11 x 6-3/4 x 1-3/4  | 18           |
| EQDRPL18L | 13-1/8 x 9 x 2-5/16 | 18*          |
| EQDRPL24  | 13-1/8 x 9 x 2-5/16 | 24*          |



## STEEL RACK FOR 5 PLASTIC COMPARTMENT DRAWERS

| Part #    | Dimensions (WxDxH)       | Compartments |
|-----------|--------------------------|--------------|
| EQD291-95 | 13-1/2 x 9-1/8 x 13-5/16 | 5            |





[illegible]

NOTES

Viking Drill

Viking Drill offers America's finest high-speed steel cutting tools. They offer twist drills, annular cutters, carbide tipped hole cutters, taps & dies, hole enlarging tools, premium carbide burrs, and a number of other specialty cutting tools.

MK Morse

Morse Premium Cutting Solutions are proudly made in the USA with global materials. Their product offering includes: Band Saw Blades, Hole Saws, Reciprocating Blades, Spade Bits, & Circular Saw Blades.

Tenryu

Tenryu is globally known as a premier manufacturer of quality saw blades. They offer over 3,000 types of carbide blades for woodworking, metalworking, plastic cutting, and machining other composite materials.

DRILL BIT DECIMAL EQUIVALENT CHART

| Drill Size | Decimal | Drill Size | Decimal | Drill Size | Decimal | Drill Size | Decimal |
|------------|---------|------------|---------|------------|---------|------------|---------|
| M0.1       | 0.0039  | M0.5       | 0.0197  | 60         | 0.04    | M1.8       | 0.0709  |
| 97         | 0.0059  | 76         | 0.02    | 59         | 0.041   | M1.85      | 0.0728  |
| 96         | 0.0063  | 75         | 0.021   | M1.05      | 0.0413  | 49         | 0.073   |
| 95         | 0.0067  | M0.55      | 0.0217  | 58         | 0.042   | M1.9       | 0.0748  |
| 94         | 0.0071  | 74         | 0.0225  | 57         | 0.043   | 48         | 0.076   |
| 93         | 0.0075  | M0.6       | 0.0236  | M1.1       | 0.0433  | M1.95      | 0.0768  |
| 92         | 0.0079  | 73         | 0.024   | M1.15      | 0.0453  | 5/64       | 0.0781  |
| M0.2       | 0.0079  | 72         | 0.025   | 56         | 0.0465  | 47         | 0.0785  |
| 91         | 0.0083  | M0.65      | 0.0256  | 3/64       | 0.0469  | M2.0       | 0.0787  |
| 90         | 0.0087  | 71         | 0.026   | M1.2       | 0.0472  | M2.05      | 0.0807  |
| 89         | 0.0091  | M0.7       | 0.0276  | M1.25      | 0.0492  | 46         | 0.081   |
| 88         | 0.0095  | 70         | 0.028   | M1.3       | 0.0512  | 45         | 0.082   |
| 87         | 0.01    | 69         | 0.0292  | 55         | 0.052   | M2.1       | 0.0827  |
| 86         | 0.0105  | M0.75      | 0.0295  | M1.35      | 0.0531  | M2.15      | 0.0846  |
| 85         | 0.011   | 68         | 0.031   | 54         | 0.055   | 44         | 0.086   |
| 84         | 0.0115  | 1/32       | 0.0312  | M1.4       | 0.0551  | M2.2       | 0.0866  |
| M0.3       | 0.0118  | M0.8       | 0.0315  | M1.45      | 0.0571  | M2.25      | 0.0886  |
| 83         | 0.012   | 67         | 0.032   | M1.5       | 0.0591  | 43         | 0.089   |
| 82         | 0.0125  | 66         | 0.033   | 53         | 0.0595  | M2.3       | 0.0906  |
| 81         | 0.013   | M0.85      | 0.0335  | M1.55      | 0.061   | M2.35      | 0.0925  |
| 80         | 0.0135  | 65         | 0.035   | 1/16       | 0.0625  | 42         | 0.0935  |
| M0.35      | 0.0138  | M0.9       | 0.0354  | M1.6       | 0.063   | 3/32       | 0.0938  |
| 79         | 0.0145  | 64         | 0.036   | 52         | 0.0635  | M2.4       | 0.0945  |
| 1/64       | 0.0156  | 63         | 0.037   | M1.65      | 0.065   | 41         | 0.096   |
| M0.4       | 0.0157  | M0.95      | 0.0374  | M1.7       | 0.0669  | M2.45      | 0.0965  |
| 78         | 0.016   | 62         | 0.038   | 51         | 0.067   | 40         | 0.098   |
| M0.45      | 0.0177  | 61         | 0.039   | M1.75      | 0.0689  |            |         |
| 77         | 0.018   | M1.0       | 0.0394  | 50         | 0.07    |            |         |

## DRILL BIT DECIMAL EQUIVALENT CHART

| Drill Size | Decimal | Drill Size | Decimal | Drill Size | Decimal | Drill Size | Decimal |
|------------|---------|------------|---------|------------|---------|------------|---------|
| M2.5       | 0.0984  | M4.1       | 0.1614  | M5.8       | 0.2283  | M7.9       | 0.311   |
| 39         | 0.0995  | M4.2       | 0.1654  | M5.9       | 0.2323  | 5/16       | 0.3125  |
| 38         | 0.1015  | 19         | 0.166   | A          | 0.234   | M8.0       | 0.315   |
| M2.6       | 0.1024  | M4.3       | 0.1693  | 15/64      | 0.2344  | O          | 0.316   |
| 37         | 0.104   | 18         | 0.1695  | M6.0       | 0.2362  | M8.1       | 0.3189  |
| M2.7       | 0.1063  | 11/64      | 0.1719  | B          | 0.238   | M8.2       | 0.3228  |
| 36         | 0.1065  | 17         | 0.173   | M6.1       | 0.2402  | P          | 0.323   |
| 7/64       | 0.1094  | M4.4       | 0.1732  | C          | 0.242   | M8.3       | 0.3268  |
| 35         | 0.11    | 16         | 0.177   | M6.2       | 0.2441  | 21/64      | 0.3281  |
| M2.8       | 0.1102  | M4.5       | 0.1772  | D          | 0.246   | M8.4       | 0.3307  |
| 34         | 0.111   | 15         | 0.18    | M6.3       | 0.248   | Q          | 0.332   |
| 33         | 0.113   | M4.6       | 0.1811  | 1/4        | 0.25    | M8.5       | 0.3346  |
| M2.9       | 0.1142  | 14         | 0.182   | E          | 0.25    | M8.6       | 0.3386  |
| 32         | 0.116   | 13         | 0.185   | M6.4       | 0.252   | R          | 0.339   |
| M3.0       | 0.1181  | M4.7       | 0.185   | M6.5       | 0.2559  | M8.7       | 0.3425  |
| 31         | 0.12    | 3/16       | 0.1875  | F          | 0.257   | 11/32      | 0.3438  |
| M3.1       | 0.122   | 12         | 0.189   | M6.6       | 0.2598  | M8.8       | 0.3465  |
| 1/8        | 0.125   | M4.8       | 0.189   | G          | 0.261   | S          | 0.348   |
| M3.2       | 0.126   | 11         | 0.191   | M6.7       | 0.2638  | M8.9       | 0.3504  |
| 30         | 0.1285  | M4.9       | 0.1929  | 17/64      | 0.2656  | M9.0       | 0.3543  |
| M3.3       | 0.1299  | 10         | 0.1935  | H          | 0.266   | T          | 0.358   |
| M3.4       | 0.1339  | 9          | 0.196   | M6.8       | 0.2677  | M9.1       | 0.3583  |
| 29         | 0.136   | M5.0       | 0.1969  | M6.9       | 0.2717  | 23/64      | 0.3594  |
| M3.5       | 0.1378  | 8          | 0.199   | I          | 0.272   | M9.2       | 0.3622  |
| 28         | 0.1405  | M5.1       | 0.2008  | M7.0       | 0.2756  | M9.3       | 0.3661  |
| 9/64       | 0.1406  | 7          | 0.201   | J          | 0.277   | U          | 0.368   |
| M3.6       | 0.1417  | 13/64      | 0.2031  | M7.1       | 0.295   | M9.4       | 0.3701  |
| 27         | 0.144   | 6          | 0.204   | K          | 0.281   | M9.5       | 0.374   |
| M3.7       | 0.1457  | M5.2       | 0.2047  | 9/32       | 0.2812  | 3/8        | 0.375   |
| 26         | 0.147   | 5          | 0.2055  | M7.2       | 0.2835  | V          | 0.377   |
| 25         | 0.1495  | M5.3       | 0.2087  | M7.3       | 0.2874  | M9.6       | 0.378   |
| M3.8       | 0.1496  | 4          | 0.209   | L          | 0.29    | M9.7       | 0.3819  |
| 24         | 0.152   | M5.4       | 0.2126  | M7.4       | 0.2913  | M9.8       | 0.3858  |
| M3.9       | 0.1535  | 3          | 0.213   | M          | 0.295   | W          | 0.386   |
| 23         | 0.154   | M5.5       | 0.2165  | M7.5       | 0.2953  | M9.9       | 0.3898  |
| 5/32       | 0.1562  | 7/32       | 0.2188  | 19/64      | 0.2969  | 25/64      | 0.3906  |
| 22         | 0.157   | M5.6       | 0.2205  | M7.6       | 0.2992  | M10.0      | 0.3937  |
| M4.0       | 0.1575  | 2          | 0.221   | N          | 0.302   | X          | 0.397   |
| 21         | 0.159   | M5.7       | 0.2244  | M7.7       | 0.3031  | M10.2      | 0.4016  |
| 20         | 0.161   | 1          | 0.228   | M7.8       | 0.3071  | Y          | 0.404   |



DRILL BIT DECIMAL EQUIVALENT CHART

| Drill Size | Decimal | Drill Size | Decimal | Drill Size | Decimal | Drill Size | Decimal |
|------------|---------|------------|---------|------------|---------|------------|---------|
| M10.3      | 0.4055  | 33/64      | 0.5156  | 11/16      | 0.6875  | M21.5      | 0.8465  |
| 13/32      | 0.4062  | 17/32      | 0.5312  | M17.5      | 0.689   | 55/64      | 0.8594  |
| Z          | 0.413   | M13.5      | 0.5315  | 45/64      | 0.7031  | M22.0      | 0.8661  |
| M10.5      | 0.4134  | 35/64      | 0.5469  | M18.0      | 0.7087  | 7/8        | 0.875   |
| 27/64      | 0.4219  | M14.0      | 0.5512  | 23/32      | 0.7188  | M22.5      | 0.8858  |
| M10.8      | 0.4252  | 9/16       | 0.5625  | M18.5      | 0.7283  | 57/64      | 0.8906  |
| M11.0      | 0.4331  | M14.5      | 0.5709  | 47/64      | 0.7344  | M23.0      | 0.9055  |
| 7/16       | 0.4375  | 37/64      | 0.5781  | M19.0      | 0.748   | 29/32      | 0.9062  |
| M11.2      | 0.4409  | M15.0      | 0.5906  | 3/4        | 0.75    | 59/64      | 0.9219  |
| M11.5      | 0.4528  | 19/32      | 0.5938  | 49/64      | 0.7656  | M23.5      | 0.9252  |
| 29/64      | 0.4531  | 39/64      | 0.6094  | M19.5      | 0.7677  | 15/16      | 0.9375  |
| M11.8      | 0.4646  | M15.5      | 0.6102  | 25/32      | 0.7812  | M24.0      | 0.9449  |
| 15/32      | 0.4688  | 5/8        | 0.625   | M20.0      | 0.7874  | 61/64      | 0.9531  |
| M12.0      | 0.4724  | M16.0      | 0.6299  | 51/64      | 0.7969  | M24.5      | 0.9646  |
| M12.2      | 0.4803  | 41/64      | 0.6406  | M20.5      | 0.8071  | 31/32      | 0.9688  |
| 31/64      | 0.4844  | M16.5      | 0.6496  | 13/16      | 0.8125  | M25.0      | 0.9843  |
| M12.5      | 0.4921  | 21/32      | 0.6562  | M21.0      | 0.8268  | 63/64      | 0.9844  |
| 1/2        | 0.5     | M17.0      | 0.6693  | 53/64      | 0.8281  | 1          | 1       |
| M13.0      | 0.5118  | 43/64      | 0.6719  | 27/32      | 0.8438  |            |         |

TAP DRILL CHART

| Thread   | Drill | Thread   | Drill | Thread   | Drill | Thread  | Drill |
|----------|-------|----------|-------|----------|-------|---------|-------|
| 0-80     | 3/64  | 6-40     | 33    | M8-1.0   | M7.0  | 5/8-18  | 37/64 |
| M1.6-.35 | M1.25 | M3.5-.6  | M2.9  | 3/8-16   | 5/16  | M18-2.5 | M15.5 |
| 1-64     | 54    | M4.0-.7  | M3.3  | 3/8-24   | Q     | M18-1.5 | M16.5 |
| M1.8-.35 | M1.45 | 8-32     | 29    | M10-1.5  | M8.5  | 3/4-10  | 21/32 |
| 1-72     | 53    | 8-36     | 29    | M10-1.25 | 11/32 | 3/4-16  | 11/16 |
| M2.0-.4  | M1.6  | M4.5-.75 | 26    | 7/16-14  | U     | M20-2.5 | M17.5 |
| 2-56     | 51    | 10-24    | 25    | 7/16-20  | 25/64 | M20-1.5 | M18.5 |
| M2.2-.45 | M1.75 | 10-32    | 21    | M12-1.75 | Y     | 7/8-9   | 49/64 |
| 2-64     | 50    | M5.0-.8  | M4.2  | 1/2-13   | 27/64 | M22-2.5 | M19.5 |
| 3-48     | 47    | 12-24    | 16    | M12-1.25 | M10.8 | M22-1.5 | M20.5 |
| M2.5-.45 | M2.05 | 12-28    | 14    | 1/2-20   | 29/64 | 7/8-14  | 13/16 |
| 3-56     | 45    | M6-1.0   | M5.0  | M14-2.0  | M12.0 | M24-3.0 | M21   |
| 4-40     | 43    | 1/4-20   | 7     | 9/16-12  | 31/64 | M24-2.0 | M22   |
| 4-48     | 42    | 1/4-28   | 3     | M14-1.5  | M12.5 | 1-8     | 7/8   |
| M3.0-.5  | M2.5  | M7-1.0   | M6.0  | 9/16-18  | 33/64 | 1-12    | 59/64 |
| 5-40     | 38    | 5/16-18  | F     | M16-2.0  | M14.0 | 1-14    | 15/16 |
| 5-44     | 37    | M8-1.25  | H     | 5/8-11   | 17/32 |         |       |
| 6-32     | 36    | 5/16-24  | I     | M16-1.5  | M14.5 |         |       |

PIPE THREAD TAP DRILL CHART

| Thread       | Drill   |
|--------------|---------|
| 1/16-27      | D       |
| 1/8-27       | 11/32   |
| 1/4-18       | 7/16    |
| 3/8-18       | 37/64   |
| 1/2-14       | 23/32   |
| 3/4-14       | 59/64   |
| 1-11 1/2     | 15/32   |
| 1 1/4-11 1/2 | 1 1/2   |
| 1 1/2-11 1/2 | 1 47/64 |
| 2-11 1/2     | 2 7/32  |

MORSE BI-METAL HOLE SAWS

RECOMMENDED HOLE SAWING SPEEDS (RPM)

| Size in | Size mm | Mild Steel | Tool / Stainless Steels | Cast Iron | Brass | Aluminum |
|---------|---------|------------|-------------------------|-----------|-------|----------|
| 9/16    | 14      | 550        | 300                     | 400       | 790   | 900      |
| 5/8     | 16      | 530        | 275                     | 365       | 730   | 825      |
| 11/16   | 17      | 500        | 250                     | 330       | 665   | 750      |
| 3/4     | 19      | 460        | 230                     | 300       | 600   | 690      |
| 13/16   | 21      | 425        | 210                     | 280       | 560   | 630      |
| 7/8     | 22      | 390        | 195                     | 260       | 520   | 585      |
| 15/16   | 24      | 370        | 185                     | 245       | 495   | 555      |
| 1       | 25      | 350        | 175                     | 235       | 470   | 525      |
| 1-1/16  | 27      | 325        | 160                     | 215       | 435   | 480      |
| 1-1/8   | 29      | 300        | 150                     | 200       | 400   | 450      |
| 1-3/16  | 30      | 285        | 145                     | 190       | 380   | 425      |
| 1-1/4   | 32      | 275        | 140                     | 180       | 360   | 410      |
| 1-5/16  | 33      | 260        | 135                     | 175       | 345   | 390      |
| 1-3/8   | 35      | 250        | 125                     | 165       | 330   | 375      |
| 1-7/16  | 37      | 240        | 120                     | 160       | 315   | 360      |
| 1-1/2   | 38      | 230        | 115                     | 150       | 300   | 345      |
| 1-9/16  | 40      | 220        | 110                     | 145       | 290   | 330      |
| 1-5/8   | 41      | 210        | 105                     | 140       | 280   | 315      |
| 1-11/16 | 43      | 205        | 100                     | 135       | 270   | 305      |
| 1-3/4   | 44      | 195        | 95                      | 130       | 260   | 295      |
| 1-13/16 | 46      | 190        | 95                      | 125       | 250   | 285      |
| 1-7/8   | 48      | 180        | 90                      | 120       | 240   | 270      |

MORSE BI-METAL HOLE SAWS

RECOMMENDED HOLE SAWING SPEEDS (RPM)

| Size in | Size mm | Mild Steel | Tool / Stainless Steels | Cast Iron | Brass | Aluminum |
|---------|---------|------------|-------------------------|-----------|-------|----------|
| 2       | 51      | 170        | 85                      | 115       | 230   | 255      |
| 2-1/16  | 52      | 165        | 80                      | 110       | 220   | 245      |
| 2-1/8   | 54      | 160        | 80                      | 105       | 210   | 240      |
| 2-1/4   | 57      | 150        | 75                      | 100       | 200   | 230      |
| 2-5/16  | 59      | 145        | 75                      | 100       | 195   | 225      |
| 2-3/8   | 60      | 140        | 70                      | 95        | 190   | 220      |
| 2-1/2   | 64      | 135        | 70                      | 90        | 180   | 205      |
| 2-9/16  | 65      | 130        | 65                      | 85        | 175   | 200      |
| 2-5/8   | 67      | 130        | 65                      | 85        | 170   | 195      |
| 2-3/4   | 70      | 125        | 60                      | 80        | 160   | 185      |
| 2-7/8   | 73      | 120        | 60                      | 80        | 160   | 180      |
| 3       | 76      | 115        | 55                      | 75        | 150   | 170      |
| 3-1/8   | 79      | 110        | 55                      | 70        | 145   | 165      |
| 3-1/4   | 83      | 105        | 50                      | 70        | 140   | 155      |
| 3-3/8   | 86      | 100        | 50                      | 65        | 130   | 150      |
| 3-1/2   | 89      | 95         | 45                      | 60        | 125   | 145      |
| 3-5/8   | 92      | 95         | 45                      | 60        | 120   | 140      |
| 3-3/4   | 95      | 90         | 45                      | 60        | 120   | 135      |
| 3-7/8   | 98      | 90         | 45                      | 60        | 115   | 130      |
| 4       | 102     | 85         | 40                      | 55        | 115   | 125      |
| 4-1/8   | 105     | 85         | 40                      | 55        | 110   | 120      |
| 4-1/4   | 108     | 80         | 40                      | 55        | 110   | 115      |
| 4-3/8   | 111     | 80         | 40                      | 50        | 100   | 110      |
| 4-1/2   | 114     | 75         | 35                      | 50        | 100   | 105      |
| 4-3/4   | 121     | 70         | 35                      | 45        | 90    | 95       |
| 5       | 127     | 65         | 30                      | 40        | 85    | 90       |
| 5-1/2   | 140     | 60         | 30                      | 35        | 80    | 85       |
| 5-3/4   | 146     | 60         | 30                      | 35        | 80    | 85       |
| 6       | 152     | 55         | 25                      | 35        | 75    | 80       |

## CARBIDE BURRS

### RECOMMENDED RPM

| Diameter | Standard Material | Stainless Steel |
|----------|-------------------|-----------------|
| 1/16     | 72500             | 97500           |
| 3/32     | 65500             | 89000           |
| 1/8      | 56000             | 76000           |
| 5/32     | 46000             | 70000           |
| 3/16     | 40000             | 65500           |
| 1/4      | 35000             | 61000           |
| 5/16     | 28000             | 28000           |
| 3/8      | 25000             | 25000           |
| 7/16     | 22000             | 22000           |
| 1/2      | 18800             | 18800           |
| 5/8      | 17000             | 17000           |
| 3/4      | 14900             | 14900           |
| 1        | 12600             | 12600           |



JOBBER LENGTH DRILL BITS

TYPE 240AQF • BLACK & GOLD

The 240-AQF drill bits are premium-quality, jobber length bits made from high-speed steel for tough industrial drilling. Designed with a 135 split point tip to reduce walking and improve accuracy. Each bit features a 3-sided shank for improved grip and reduced slippage in the chuck.



Fractional

| Part #  | Size  | Overall Length | Flute Length | Packaging Qty |
|---------|-------|----------------|--------------|---------------|
| TDBA04V | 1/16  | -              | -            | 12            |
| TDBA05V | 5/64  | -              | -            | 12            |
| TDBA06V | 3/32  | -              | -            | 12            |
| TDBA07V | 7/64  | -              | -            | 12            |
| TDBA08V | 1/8   | -              | -            | 12            |
| TDBA09V | 9/64  | -              | -            | 12            |
| TDBA10V | 5/32  | -              | -            | 12            |
| TDBA11V | 11/64 | -              | -            | 12            |
| TDBA12V | 3/16  | 3-1/2          | 2-5/16       | 12            |
| TDBA13V | 13/64 | 3-5/8          | 2-7/16       | 12            |
| TDBA14V | 7/32  | 3-3/4          | 2-1/2        | 12            |
| TDBA15V | 15/64 | 3-7/8          | 2-5/8        | 12            |
| TDBA16V | 1/4   | 4              | 2-3/4        | 12            |
| TDBA17V | 17/64 | 4-1/8          | 2-7/8        | 12            |
| TDBA18V | 9/32  | 4-1/4          | 2-15/16      | 12            |

| Part #  | Size  | Overall Length | Flute Length | Packaging Qty |
|---------|-------|----------------|--------------|---------------|
| TDBA19V | 19/64 | 4-3/8          | 3-1/16       | 6             |
| TDBA20V | 5/16  | 4-1/2          | 3-3/16       | 6             |
| TDBA21V | 21/64 | 4-5/8          | 3-5/16       | 6             |
| TDBA22V | 11/32 | 4-3/4          | 3-7/16       | 6             |
| TDBA23V | 23/64 | 4-7/8          | 3-1/2        | 6             |
| TDBA24V | 3/8   | 5              | 3-5/8        | 6             |
| TDBA25V | 25/64 | 5-1/8          | 3-3/4        | 6             |
| TDBA26V | 13/32 | 5-1/4          | 3-7/8        | 6             |
| TDBA27V | 27/64 | 5-3/8          | 3-15/16      | 6             |
| TDBA28V | 7/16  | 5-1/2          | 4-1/16       | 6             |
| TDBA29V | 29/64 | 5-5/8          | 4-3/16       | 6             |
| TDBA30V | 15/32 | 5-3/4          | 4-5/16       | 6             |
| TDBA31V | 31/64 | 5-7/8          | 4-3/8        | 6             |
| TDBA32V | 1/2   | 6              | 4-1/2        | 6             |

29 Piece Set

| Part #    | Size              |
|-----------|-------------------|
| TDBAS029V | 1/16-1/2 by 64ths |

15 Piece Set

| Part #    | Size              |
|-----------|-------------------|
| TDBAS015V | 1/16-1/2 by 32nds |



## DRILL BIT CABINET

Drill Bit Cabinets are an all-steel, sturdy construction cabinet. All compartments are permanently marked with size for easy identification.



| Part # | Size                                           | Part #     | Size                                              |
|--------|------------------------------------------------|------------|---------------------------------------------------|
| EQDBRK | Cabinet for fractional sizes 1/16-1/2 by 64ths | EQDBRKLA60 | Cabinet for fractional sizes 33/64-63/64 by 64ths |

## TYPE 280-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT

Type 280-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. They are recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. Type 280-UB has a 1/2" reduced shank with 3 flats on the shank.



### Fractional

| Part #  | Size  | Overall Length | Flute Length | Packaging Qty | Part #  | Size  | Overall Length | Flute Length | Packaging Qty |
|---------|-------|----------------|--------------|---------------|---------|-------|----------------|--------------|---------------|
| TDBA33V | 33/64 | 6              | 3-1/8        | 1             | TDBA55V | 55/64 | 6              | 3-1/8        | 1             |
| TDBA34V | 17/32 | 6              | 3-1/8        | 1             | TDBA56V | 7/8   | 6              | 3-1/8        | 1             |
| TDBA35V | 35/64 | 6              | 3-1/8        | 1             | TDBA57V | 57/64 | 6              | 3-1/8        | 1             |
| TDBA36V | 9/16  | 6              | 3-1/8        | 1             | TDBA58V | 29/32 | 6              | 3-1/8        | 1             |
| TDBA37V | 37/64 | 6              | 3-1/8        | 1             | TDBA59V | 59/64 | 6              | 3-1/8        | 1             |
| TDBA38V | 19/32 | 6              | 3-1/8        | 1             | TDBA60V | 15/16 | 6              | 3-1/8        | 1             |
| TDBA39V | 39/64 | 6              | 3-1/8        | 1             | TDBA61V | 61/64 | 6              | 3-1/8        | 1             |
| TDBA40V | 5/8   | 6              | 3-1/8        | 1             | TDBA62V | 31/32 | 6              | 3-1/8        | 1             |
| TDBA41V | 41/64 | 6              | 3-1/8        | 1             | TDBA63V | 63/64 | 6              | 3-1/8        | 1             |
| TDBA42V | 21/32 | 6              | 3-1/8        | 1             | TDBA64V | 1     | 6              | 3-1/8        | 1             |
| TDBA43V | 43/64 | 6              | 3-1/8        | 1             | TDBA66V | 11/32 | 6              | 3-1/8        | 1             |
| TDBA44V | 11/16 | 6              | 3-1/8        | 1             | TDBA68V | 11/16 | 6              | 3-1/8        | 1             |
| TDBA45V | 45/64 | 6              | 3-1/8        | 1             | TDBA70V | 13/32 | 6              | 3-1/8        | 1             |
| TDBA46V | 23/32 | 6              | 3-1/8        | 1             | TDBA72V | 11/8  | 6              | 3-1/8        | 1             |
| TDBA47V | 47/64 | 6              | 3-1/8        | 1             | TDBA74V | 15/32 | 6              | 3-1/8        | 1             |
| TDBA48V | 3/4   | 6              | 3-1/8        | 1             | TDBA76V | 13/16 | 6              | 3-1/8        | 1             |
| TDBA49V | 49/64 | 6              | 3-1/8        | 1             | TDBA80V | 11/4  | 6              | 3-1/8        | 1             |
| TDBA50V | 25/32 | 6              | 3-1/8        | 1             | TDBA84V | 15/16 | 6              | 3-1/8        | 1             |
| TDBA51V | 51/64 | 6              | 3-1/8        | 1             | TDBA88V | 13/8  | 6              | 3            | 1             |
| TDBA52V | 13/16 | 6              | 3-1/8        | 1             | TDBA92V | 17/16 | 6              | 3            | 1             |
| TDBA53V | 53/64 | 6              | 3-1/8        | 1             | TDBA96V | 11/2  | 6              | 3            | 1             |
| TDBA54V | 27/32 | 6              | 3-1/8        | 1             |         |       |                |              |               |

### Sets

| Part #    | Description                                  | Part #    | Description                        |
|-----------|----------------------------------------------|-----------|------------------------------------|
| TDBAS004V | 4 pc. Drill Bit Set 280UB 9/16, 5/8, 3/4 & 1 | TDBAS008V | 8 pc. Drill Bit Set 280UB 9/16 - 1 |

JOBBER LENGTH DRILL BITS

TYPE 240-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT

Type 240-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. They are recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. Type 240-UB comes in jobber length with round shanks



Fractional

| Part #  | Size  | Overall Length | Flute Length | Packaging Qty | Part #                                                                | Size  | Overall Length | Flute Length | Packaging Qty |
|---------|-------|----------------|--------------|---------------|-----------------------------------------------------------------------|-------|----------------|--------------|---------------|
| TDBU12V | 3/16  | 3-1/2          | 2-5/16       | 12            | TDBU23V                                                               | 23/64 | 4-7/8          | 3-1/2        | 6             |
| TDBU13V | 13/64 | 3-5/8          | 2-7/16       | 12            | TDBU24V                                                               | 3/8   | 5              | 3-5/8        | 6             |
| TDBU14V | 7/32  | 3-3/4          | 2-1/2        | 12            | TDBU25V                                                               | 25/64 | 5-1/8          | 3-3/4        | 6             |
| TDBU15V | 15/64 | 3-7/8          | 2-5/8        | 12            | TDBU26V                                                               | 13/32 | 5-1/4          | 3-7/8        | 6             |
| TDBU16V | 1/4   | 4              | 2-3/4        | 12            | TDBU27V                                                               | 27/64 | 5-3/8          | 3-15/16      | 6             |
| TDBU17V | 17/64 | 4-1/8          | 2-7/8        | 12            | TDBU28V                                                               | 7/16  | 5-1/2          | 4-1/16       | 6             |
| TDBU18V | 9/32  | 4-1/4          | 2-15/16      | 12            | TDBU29V                                                               | 29/64 | 5-5/8          | 4-3/16       | 6             |
| TDBU19V | 19/64 | 4-3/8          | 3-1/16       | 6             | TDBU30V                                                               | 15/32 | 5-3/4          | 4-5/16       | 6             |
| TDBU20V | 5/16  | 4-1/2          | 3-3/16       | 6             | TDBU31V                                                               | 31/64 | 5-7/8          | 4-3/8        | 6             |
| TDBU21V | 21/64 | 4-5/8          | 3-5/16       | 6             | TDBU32V                                                               | 1/2   | 6              | 4-1/2        | 6             |
| TDBU22V | 11/32 | 4-3/4          | 3-7/16       | 6             | For drill bits larger than 1/2" see Type 28OUB 1/2" shank drill bits. |       |                |              |               |

## Wire

| Part #   | Size | Overall Length | Flute Length | Packaging Qty | Part #   | Size | Overall Length | Flute Length | Packaging Qty |
|----------|------|----------------|--------------|---------------|----------|------|----------------|--------------|---------------|
| TDBU#01V | #1   | 3-7/8          | 2-5/8        | 12            | TDBU#31V | #31  | 2-3/4          | 1-5/8        | 12            |
| TDBU#02V | #2   | 3-7/8          | 2-5/8        | 12            | TDBU#32V | #32  | 2-3/4          | 1-5/8        | 12            |
| TDBU#03V | #3   | 3-3/4          | 2-1/2        | 12            | TDBU#33V | #33  | 2-5/8          | 1-1/2        | 12            |
| TDBU#04V | #4   | 3-3/4          | 2-1/2        | 12            | TDBU#34V | #34  | 2-5/8          | 1-1/2        | 12            |
| TDBU#05V | #5   | 3-3/4          | 2-1/2        | 12            | TDBU#35V | #35  | 2-5/8          | 1-1/2        | 12            |
| TDBU#06V | #6   | 3-3/4          | 2-1/2        | 12            | TDBU#36V | #36  | 2-1/2          | 1-7/16       | 12            |
| TDBU#07V | #7   | 3-5/8          | 2-7/16       | 12            | TDBU#37V | #37  | 2-1/2          | 1-7/16       | 12            |
| TDBU#08V | #8   | 3-5/8          | 2-7/16       | 12            | TDBU#38V | #38  | 2-1/2          | 1-7/16       | 12            |
| TDBU#09V | #9   | 3-5/8          | 2-7/16       | 12            | TDBU#39V | #39  | 2-3/8          | 1-3/8        | 12            |
| TDBU#10V | #10  | 3-5/8          | 2-7/16       | 12            | TDBU#40V | #40  | 2-3/8          | 1-3/8        | 12            |
| TDBU#11V | #11  | 3-1/2          | 2-5/16       | 12            | TDBU#41V | #41  | 2-3/8          | 1-3/8        | 12            |
| TDBU#12V | #12  | 3-1/2          | 2-5/16       | 12            | TDBU#42V | #42  | 2-1/4          | 1-1/4        | 12            |
| TDBU#13V | #13  | 3-1/2          | 2-5/16       | 12            | TDBU#43V | #43  | 2-1/4          | 1-1/4        | 12            |
| TDBU#15V | #15  | 3-3/8          | 2-3/16       | 12            | TDBU#44V | #44  | 2-1/8          | 1-1/8        | 12            |
| TDBU#16V | #16  | 3-3/8          | 2-3/16       | 12            | TDBU#45V | #45  | 2-1/8          | 1-1/8        | 12            |
| TDBU#17V | #17  | 3-3/8          | 2-3/16       | 12            | TDBU#46V | #46  | 2-1/8          | 1-1/8        | 12            |
| TDBU#18V | #18  | 3-1/4          | 2-1/8        | 12            | TDBU#47V | #47  | 2              | 1            | 12            |
| TDBU#19V | #19  | 3-1/4          | 2-1/8        | 12            | TDBU#49V | #49  | 2              | 1            | 12            |
| TDBU#20V | #20  | 3-1/4          | 2-1/8        | 12            | TDBU#50V | #50  | 2              | 1            | 12            |
| TDBU#21V | #21  | 3-1/4          | 2-1/8        | 12            | TDBU#51V | #51  | 2              | 1            | 12            |
| TDBU#22V | #22  | 3-1/8          | 2            | 12            | TDBU#52V | #52  | 1-7/8          | 7/8          | 12            |
| TDBU#23V | #23  | 3-1/8          | 2            | 12            | TDBU#53V | #53  | 1-7/8          | 7/8          | 12            |
| TDBU#24V | #24  | 3-1/8          | 2            | 12            | TDBU#54V | #54  | 1-7/8          | 7/8          | 12            |
| TDBU#25V | #25  | 3              | 1-7/8        | 12            | TDBU#55V | #55  | 1-7/8          | 7/8          | 12            |
| TDBU#26V | #26  | 3              | 1-7/8        | 12            | TDBU#56V | #56  | 1-3/4          | 3/4          | 12            |
| TDBU#27V | #27  | 3              | 1-7/8        | 12            | TDBU#57V | #57  | 1-3/4          | 3/4          | 12            |
| TDBU#28V | #28  | 2-7/8          | 1-3/4        | 12            | TDBU#58V | #58  | 1-5/8          | 11/16        | 12            |
| TDBU#29V | #29  | 2-7/8          | 1-3/4        | 12            | TDBU#59V | #59  | 1-5/8          | 11/16        | 12            |
| TDBU#30V | #30  | 2-3/4          | 1-5/8        | 12            | TDBU#60V | #60  | 1-5/8          | 11/16        | 12            |

## Letter

| Part #  | Size | Overall Length | Flute Length | Packaging Qty | Part #  | Size | Overall Length | Flute Length | Packaging Qty |
|---------|------|----------------|--------------|---------------|---------|------|----------------|--------------|---------------|
| TDBULAV | A    | 3-7/8          | 2-5/8        | 12            | TDBULNV | N    | 4-3/8          | 3-1/16       | 6             |
| TDBULBV | B    | 4              | 2-3/4        | 12            | TDBULOV | O    | 4-1/2          | 3-3/16       | 6             |
| TDBULCV | C    | 4              | 2-3/4        | 12            | TDBULPV | P    | 4-5/8          | 3-5/16       | 6             |
| TDBULDV | D    | 4              | 2-3/4        | 12            | TDBULQV | Q    | 4-3/4          | 3-7/16       | 6             |
| TDBULEV | E    | 4              | 2-3/4        | 12            | TDBULRV | R    | 4-3/4          | 3-7/16       | 6             |
| TDBULFV | F    | 4-1/8          | 2-7/8        | 12            | TDBULSV | S    | 4-7/8          | 3-1/2        | 6             |
| TDBULGV | G    | 4-1/8          | 2-7/8        | 12            | TDBULTV | T    | 4-7/8          | 3-1/2        | 6             |
| TDBULHV | H    | 4-1/8          | 2-7/8        | 12            | TDBULUV | U    | 5              | 3-5/8        | 6             |
| TDBULIV | I    | 4-1/8          | 2-7/8        | 12            | TDBULVV | V    | 5              | 3-5/8        | 6             |
| TDBULJV | J    | 4-1/8          | 2-7/8        | 12            | TDBULWV | W    | 5-1/8          | 3-3/4        | 6             |
| TDBULKV | K    | 4-1/4          | 2-15/16      | 12            | TDBULXV | X    | 5-1/8          | 3-3/4        | 6             |
| TDBULLV | L    | 4-1/4          | 2-15/16      | 12            | TDBULYV | Y    | 5-1/4          | 3-7/8        | 6             |
| TDBULMV | M    | 4-3/8          | 3-1/16       | 6             | TDBULZV | Z    | 5-1/4          | 3-7/8        | 6             |



JOBBER LENGTH DRILL BITS

TYPE 240-UB SETS

| Part #       | Size                                    | Description               |
|--------------|-----------------------------------------|---------------------------|
| TDBUS029V    | 1/16-1/2 by 64ths                       | 29 Piece 240-UB           |
| TDBUS115V    | 1/16-1/2 by 64ths & A-Z & #1-#60        | 115 Piece 240-UB          |
| TDBUS015V    | 1/16-1/2 by 32nds                       | 15 Piece 240-UB           |
| TDBUS029PV   | 1/16-1/2 by 64ths in an Ultra-Dex Index | 29 Piece 240-UB Ultra-Dex |
| HKDBS240UB26 | A-Z                                     | 26 Piece 240-UB Number    |
| HKDBS240UB60 | #1-#60                                  | 60 Piece 240-UB Letter    |



240-CN CRYOGENICS

Cooled to -300°F for enhanced strength and wear resistance. Delivers longer life with cleaner drilling in stainless, alloy, and hardened metals.



| Part #   | Size  | Overall Length | Flute Length | Packaging Qty |
|----------|-------|----------------|--------------|---------------|
| TDBCR06V | 3/32  | 2-1/4          | 1-1/4        | 12            |
| TDBCR08V | 1/8   | 2-3/4          | 1-5/8        | 12            |
| TDBCR10V | 5/32  | 3-1/8          | 2            | 12            |
| TDBCR11V | 11/64 | 3-1/4          | 2-1/8        | 12            |
| TDBCR12V | 3/16  | 3-1/2          | 2-5/16       | 12            |
| TDBCR13V | 13/64 | 3-5/8          | 2-7/16       | 12            |
| TDBCR14V | 7/32  | 3-3/4          | 2-1/2        | 12            |
| TDBCR15V | 15/64 | 3-7/8          | 2-5/8        | 12            |
| TDBCR16V | 1/4   | 4              | 2-3/4        | 12            |
| TDBCR17V | 17/64 | 4-1/8          | 2-7/8        | 12            |
| TDBCR18V | 9/32  | 4-1/4          | 2-15/16      | 12            |
| TDBCR20V | 5/16  | 4-1/2          | 3-3/16       | 6             |
| TDBCR22V | 11/32 | 4-3/4          | 3-7/16       | 6             |
| TDBCR23V | 23/64 | 4-7/8          | 3-1/2        | 6             |
| TDBCR24V | 3/8   | 5              | 3-5/8        | 6             |
| TDBCR25V | 25/64 | 5-1/8          | 3-3/4        | 6             |
| TDBCR26V | 13/32 | 5-1/4          | 3-7/8        | 6             |
| TDBCR31V | 31/64 | 5-7/8          | 4-3/8        | 6             |
| TDBCR32V | 1/2   | 6              | 4-1/2        | 6             |

CRYOGENICS SETS

| Part #      | Description                                         |
|-------------|-----------------------------------------------------|
| TDBSCR029V  | 47452 Drill Bit Set Cryogenic 29 pc. Red Metal Case |
| TDBSCR029PV | Drill Bit Set Cryogenic 29 pc. Red Ultra Dex        |



## TYPE 240-D • M42 COBALT • 135° SPLIT POINT

Manufactured from M42 HSS containing 8% cobalt which increases high red hardness. Cobalt drills require rigidly held positive feed drilling equipment.



### Fractional

| Part #  | Size  | Flute Length | Length  | Packaging Qty | Part #  | Size  | Flute Length | Length | Packaging Qty |
|---------|-------|--------------|---------|---------------|---------|-------|--------------|--------|---------------|
| TDBC04V | 1/16  | 1-7/8        | 3/4     | 12            | TDBC19V | 19/64 | 4-3/8        | 3-1/16 | 12            |
| TDBC06V | 3/32  | 2-1/4        | 1-1/4   | 12            | TDBC20V | 5/16  | 4-1/2        | 3-3/16 | 12            |
| TDBC07V | 7/64  | 2-5/8        | 1-1/2   | 12            | TDBC21V | 21/64 | 4-5/8        | 3-5/16 | 12            |
| TDBC08V | 1/8   | 2-3/4        | 1-5/8   | 12            | TDBC22V | 11/32 | 4-3/4        | 3-7/16 | 12            |
| TDBC12V | 3/16  | 3-1/2        | 2-5/16  | 12            | TDBC24V | 3/8   | 5            | 3-5/8  | 12            |
| TDBC14V | 7/32  | 3-3/4        | 2-1/2   | 12            | TDBC25V | 25/64 | 5-1/8        | 3-3/4  | 12            |
| TDBC16V | 1/4   | 4            | 2-3/4   | 12            | TDBC26V | 13/32 | 5-1/4        | 3-7/8  | 12            |
| TDBC17V | 17/64 | 4-1/8        | 2-7/8   | 12            | TDBC30V | 15/32 | 5-3/4        | 4-5/16 | 12            |
| TDBC18V | 9/32  | 4-1/4        | 2-15/16 | 12            | TDBC32V | 1/2   | 6            | 4-1/2  | 12            |

### Sets

| Part #    | Description                                       | Part #     | Description                                                                            |
|-----------|---------------------------------------------------|------------|----------------------------------------------------------------------------------------|
| TDBSC015V | 15 pc. Cobalt M42 Drill Bit Set 240D Smooth Shank | TDBCS029PV | 29 pc. Cobalt M42 Drill Bit Set 240D w/ Black Waterproof Ultra-Dex Case (Smooth Shank) |

## CARBIDE • HEAVY DUTY • 118° SPLIT POINT • ALFA TOOL

Solid carbide drills offer advantages of greater rigidity in difficult to machine materials. Carbide drills require rigidly held positive feed drilling equipment. Withstands high Drilling speeds, temperatures and continuous abrasion. For materials such as cast iron, aluminum casting, non-ferrous alloys, hard plastics, rubber and other abrasive materials.



| Part #        | Size | Overall Length | Flute Length | Part #        | Size  | Overall Length | Flute Length |
|---------------|------|----------------|--------------|---------------|-------|----------------|--------------|
| TDBCA04125SPA | 1/16 | 1-1/2          | 3/4          | TDBCA1835SPA  | 9/32  | 3-1/2          | 2-1/8        |
| TDBCA062SPA   | 3/32 | 2              | 1            | TDBCA20135SPA | 5/16  | 3-3/4          | 2-3/8        |
| HKDBCSP08225  | 1/8  | 2-1/4          | 1-1/4        | TDBCA24135SPA | 3/8   | 4-1/4          | 2-3/4        |
| TDBCA1025SPA  | 5/32 | 2-1/2          | 1-3/8        | TDBCA265SPA   | 13/32 | 4-1/2          | 2-7/8        |
| TDBCA12135SPA | 3/16 | 2-3/4          | 1-5/8        | TDBCA2845SPA  | 7/16  | 4-1/2          | 2-7/8        |
| TDBCA143SPA   | 7/32 | 3              | 1-3/4        | TDBCA30475SPA | 15/32 | 4-3/4          | 3            |
| TDBCA16135SPA | 1/4  | 3-1/4          | 2            | TDBCA32475SPA | 1/2   | 4-3/4          | 3            |

### Sets

| Part #     | Description                                      |
|------------|--------------------------------------------------|
| TDBCAS015A | 15 Pc Carbide Drill Bit Set 1/16 to 1/2 by 32nds |

## VORTEX-POINT

### TYPE 250-VT • TYPE 280-VT

Unique tip geometry reduces heat generation & cutting tool wear increasing tool life. Easily enlarges existing holes without damaging the point. Stay sharp up to 4X longer compared to conventional and other specialty tip design. Recommended for Cast iron, Brass, Sheet metal, Plastic, Mild steel, Copper, Hardened steel.

### TYPE 250-VT • VORTEX

Mechanic length, 3-flats on shank, shorter studier construction.



| Part #  | Size  | Packaging Qty | Part #  | Size  | Packaging Qty |
|---------|-------|---------------|---------|-------|---------------|
| TDBV04V | 1/16  | 6             | TDBV19V | 19/64 | 3             |
| TDBV05V | 5/64  | 6             | TDBV20V | 5/16  | 3             |
| TDBV06V | 3/32  | 6             | TDBV21V | 21/64 | 3             |
| TDBV07V | 7/64  | 6             | TDBV22V | 11/32 | 3             |
| TDBV08V | 1/8   | 6             | TDBV23V | 23/64 | 3             |
| TDBV09V | 9/64  | 6             | TDBV24V | 3/8   | 3             |
| TDBV10V | 5/32  | 6             | TDBV25V | 25/64 | 3             |
| TDBV11V | 11/64 | 6             | TDBV26V | 13/32 | 3             |
| TDBV12V | 3/16  | 6             | TDBV27V | 27/64 | 3             |
| TDBV13V | 13/64 | 6             | TDBV28V | 7/16  | 3             |
| TDBV14V | 7/32  | 6             | TDBV29V | 29/64 | 3             |
| TDBV15V | 15/64 | 6             | TDBV30V | 15/32 | 3             |
| TDBV16V | 1/4   | 6             | TDBV31V | 31/64 | 3             |
| TDBV17V | 17/64 | 6             | TDBV32V | 1/2   | 3             |
| TDBV18V | 9/32  | 6             |         |       |               |

### TYPE 280-VT • VORTEX

1/2" shank, Silver & Deming, 135° split point, 3 flats on shank.



| Part #  | Size      | Packaging Qty | Part #  | Size      | Packaging Qty |
|---------|-----------|---------------|---------|-----------|---------------|
| TDBV36V | 9/16 x 6  | 1             | TDBV52V | 13/16 x 6 | 1             |
| TDBV40V | 5/8 x 6   | 1             | TDBV56V | 7/8 x 6   | 1             |
| TDBV44V | 11/16 x 6 | 1             | TDBV60V | 15/16 x 6 | 1             |
| TDBV48V | 3/4 x 6   | 1             | TDBV64V | 1 x 6     | 1             |

### VORTEX SETS

| Part #    | Description                                                         |
|-----------|---------------------------------------------------------------------|
| TDBVS29V  | 29 Pc Vortex Drill Bit Set 250-VT                                   |
| TDBVS29UV | 29 Pc Vortex Drill Bit Set 250-VT Ultra-Dex Waterproof, Unbreakable |
| TDBVS15V  | 15 Pc Vortex Drill Bit Set 250-VT                                   |
| TDBVSL4V  | 4 Pc Vortex Drill Bit Set 280-VT 9/16, 5/8, 3/4, 1                  |



## MECHANICS LENGTH DRILL BITS

## TYPE 250-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT

Type 250-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. They are recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. Type 250-UB comes in a mechanic length with 3 flats on the shank.



## Fractional

| Part #  | Size  | Overall Length | Flute Length | Packaging Qty | Part #  | Size  | Overall Length | Flute Length | Packaging Qty |
|---------|-------|----------------|--------------|---------------|---------|-------|----------------|--------------|---------------|
| TDBM07V | 7/64  | 2-3/8          | 1-5/16       | 12            | TDBM20V | 5/16  | 4              | 2-1/2        | 6             |
| TDBM08V | 1/8   | 2-1/2          | 1-7/16       | 12            | TDBM21V | 21/64 | 4-1/16         | 2-9/16       | 6             |
| TDBM09V | 9/64  | 2-5/8          | 1-9/16       | 12            | TDBM22V | 11/32 | 4-1/8          | 2-5/8        | 6             |
| TDBM10V | 5/32  | 2-3/4          | 1-11/16      | 12            | TDBM23V | 23/64 | 4-3/16         | 2-11/16      | 6             |
| TDBM11V | 11/64 | 2-7/8          | 1-13/16      | 12            | TDBM24V | 3/8   | 4-1/4          | 2-11/16      | 6             |
| TDBM12V | 3/16  | 3              | 1-7/8        | 12            | TDBM25V | 25/64 | 4-5/16         | 2-3/4        | 6             |
| TDBM13V | 13/64 | 3-1/8          | 1-15/16      | 12            | TDBM26V | 13/32 | 4-3/8          | 2-13/16      | 6             |
| TDBM14V | 7/32  | 3-1/4          | 2            | 12            | TDBM27V | 27/64 | 4-7/16         | 2-7/8        | 6             |
| TDBM15V | 15/64 | 3-3/8          | 2-1/16       | 12            | TDBM28V | 7/16  | 4-1/2          | 2-15/16      | 6             |
| TDBM16V | 1/4   | 3-1/2          | 2            | 12            | TDBM29V | 29/64 | 4-5/8          | 3            | 6             |
| TDBM17V | 17/64 | 3-5/8          | 2-1/8        | 12            | TDBM30V | 15/32 | 4-3/4          | 3-1/8        | 6             |
| TDBM18V | 9/32  | 3-3/4          | 2-1/4        | 12            | TDBM31V | 31/64 | 4-7/8          | 3-1/4        | 6             |
| TDBM19V | 19/64 | 3-7/8          | 2-3/8        | 6             | TDBM32V | 1/2   | 5              | 3-3/8        | 6             |

## TYPE 250-UB • SETS

| Part #      | # of Pieces | Description                             |
|-------------|-------------|-----------------------------------------|
| TDBMUS015V  | 15          | 1/16-1/2 by 32nds                       |
| TDBMUS029V  | 29          | 1/16-1/2 by 64ths                       |
| TDBMUS029PV | 29          | 1/16-1/2 by 64ths in an Ultra-Dex Index |



# SCREW MACHINE LENGTH DRILL BITS, EXTRA LENGTH DRILL BITS

## SCREW MACHINE LENGTH DRILL BITS

### TYPE 260-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT

Type 260-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. They are recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. Type 260-UB comes in a screw machine length with a round shank.



#### Fractional

| Part #   | Size | Overall Length | Flute Length | Packaging Qty | Part #   | Size  | Overall Length | Flute Length | Packaging Qty |
|----------|------|----------------|--------------|---------------|----------|-------|----------------|--------------|---------------|
| TDBSL08V | 1/8  | 1-7/8          | 7/8          | 12            | TDBSL16V | 1/4   | 2-1/2          | 1-3/8        | 12            |
| TDBSL09V | 9/64 | 1-15/16        | 15/16        | 12            | TDBSL29V | 29/64 | 3-9/16         | 2-1/8        | 6             |
| TDBSL12V | 3/16 | 2-3/16         | 1-1/8        | 12            |          |       |                |              |               |

#### Wire

| Part #    | Size | Overall Length | Flute Length | Packaging Qty | Part #    | Size | Overall Length | Flute Length | Packaging Qty |
|-----------|------|----------------|--------------|---------------|-----------|------|----------------|--------------|---------------|
| TDBSL#11V | #11  | 2-1/4          | 1-3/16       | 12            | TDBSL#29V | #29  | 1-15/16        | 15/16        | 12            |

### TYPE 260 • HIGH SPEED STEEL • 118° POINT

Type 260 are high speed steel with a bright finish. The short length makes them especially rigid for greater drilling accuracy. They perform well in a wide variety of drilling applications.



#### Fractional

| Part #    | Size | Overall Length | Flute Length | Packaging Qty | Part #                                 | Size | Overall Length | Flute Length | Packaging Qty |
|-----------|------|----------------|--------------|---------------|----------------------------------------|------|----------------|--------------|---------------|
| TDBSLT08V | 1/8  | 1-7/8          | 7/8          | 12            | TDBSLT12V                              | 3/16 | 2-3/16         | 1-1/8        | 12            |
| TDBSLT09V | 9/64 | 1-15/16        | 15/16        | 12            | Need a different size? Give us a call! |      |                |              |               |
| TDBSLT10V | 5/32 | 2-1/16         | 1            | 12            |                                        |      |                |              |               |

## EXTRA LENGTH DRILL BITS

### TYPE XGT-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT

Type XGT-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. They are recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. Gyroidal torsion flute and land construction yields exceptional performance in deep hole drilling applications. Type XGT-UB comes with a round shank.



## Fractional

| Part #    | Size     | Flute Length | Packaging Qty | Part #    | Size     | Flute Length | Packaging Qty |
|-----------|----------|--------------|---------------|-----------|----------|--------------|---------------|
| TDBX1406V | 7/32 x 6 | 4            | 3             | TDBX1609V | 1/4 x 9  | 6            | 3             |
| TDBX1606V | 1/4 x 6  | 4            | 3             | TDBX209V  | 5/16 x 9 | 6            | 3             |
| TDBX206V  | 5/16 x 6 | 4            | 3             | TDBU2409V | 3/8 x 9  | 6            | 3             |
| TDBX0809V | 1/8 x 9  | 6            | 3             |           |          |              |               |

## TYPE 211 • AIRCRAFT TYPE B • HIGH SPEED STEEL • 135° SPLIT POINT

Type 211 are high speed steel drill bits. They have a black oxide surface treatment for increased lubricity and enhanced chip removal. They are used especially for drilling holes in hard to reach places.



## Fractional

| Part #   | Size     | Flute Length | Packaging Qty | Part #   | Size     | Flute Length | Packaging Qty |
|----------|----------|--------------|---------------|----------|----------|--------------|---------------|
| TDB0806V | 1/8 x 6  | 1-5/8        | 6             | TDB1406V | 7/32 x 6 | 2-1/2        | 6             |
| TDB0906V | 9/64 x 9 | 1-3/4        | 6             | TDB1606V | 1/4 x 6  | 2-3/4        | 6             |
| TDB1006V | 5/32 x 9 | 2            | 6             | TDB2006V | 5/16 x 6 | 3-3/16       | 6             |
| TDB1206V | 3/16 x 9 | 2-5/16       | 6             | TDB2406V | 3/8 x 6  | 3-5/8        | 6             |

## TYPE 212 • WELDED CONSTRUCTION • HIGH SPEED STEEL • 135° SPLIT POINT

Type 212 are high speed steel drill bits. They have a black oxide surface treatment for increased lubricity and enhanced chip removal. They are used especially for drilling holes in hard to reach places.



## Fractional

| Part #   | Size      | Flute Length | Packaging Qty | Part #                                 | Size      | Flute Length | Packaging Qty |
|----------|-----------|--------------|---------------|----------------------------------------|-----------|--------------|---------------|
| TDB1612V | 1/4 x 12  | 2-3/4        | 1             | TDB2812V                               | 7/16 x 12 | 4-1/16       | 1             |
| TDB2012V | 5/16 x 12 | 3-3/16       | 1             | TDB3212V                               | 1/2 x 12  | 4-1/2        | 1             |
| TDB2412V | 3/8 x 12  | 3-5/8        | 1             | Need a different size? Give us a call! |           |              |               |

## TYPE 210 • TAPER LENGTH • HIGH SPEED STEEL • 118° POINT

Type 210 are high speed steel drill bits. They have a bright finish. They are recommended for mild drilling applications where longer drill bits are required.



## Fractional

| Part #   | Size         | Flute Length | Packaging Qty | Part #   | Size         | Flute Length | Packaging Qty |
|----------|--------------|--------------|---------------|----------|--------------|--------------|---------------|
| TDBTL09V | 9/64 x 5-3/8 | 3            | 12            | TDBTL12V | 3/16 x 5-3/4 | 3-3/8        | 12            |

## Wire

| Part #    | Size        | Flute Length | Packaging Qty |
|-----------|-------------|--------------|---------------|
| TDBTL#25V | #25 x 5-3/8 | 3            | 12            |

# LEFT HAND DRILL BITS, BOLT EXTRACTORS

## LEFT HAND DRILL BITS

### TYPE 240-AL • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT

Type 240-AL Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. They are ideal for removing broken studs. Type 240-AL comes in jobber length with a round shank.



#### Fractional

| Part #   | Size  | Overall Length | Flute Length | Packaging Qty | Part #                                 | Size  | Overall Length | Flute Length | Packaging Qty |
|----------|-------|----------------|--------------|---------------|----------------------------------------|-------|----------------|--------------|---------------|
| TDBAL04V | 1/16  | 1-7/8          | 7/8          | 6             | TDBAL20V                               | 5/16  | 4-1/2          | 3-3/16       | 3             |
| TDBAL05V | 5/64  | 2              | 1            | 6             | TDBAL22V                               | 11/32 | 4-3/4          | 3-1/2        | 3             |
| TDBAL06V | 3/32  | 2-1/4          | 1-1/4        | 6             | TDBAL23V                               | 23/64 | 4-7/8          | 3-1/2        | 3             |
| TDBAL07V | 7/64  | 2-5/8          | 1-1/2        | 6             | TDBAL24V                               | 3/8   | 5              | 3-5/8        | 3             |
| TDBAL08V | 1/8   | 2-3/4          | 1-5/8        | 6             | TDBAL26V                               | 13/32 | 5-1/4          | 3-7/8        | 3             |
| TDBAL10V | 5/32  | 3-1/8          | 2            | 6             | TDBAL27V                               | 27/64 | 5-3/8          | 3-15/16      | 3             |
| TDBAL12V | 3/16  | 3-1/2          | 2-5/16       | 6             | TDBAL28V                               | 7/16  | 5-1/2          | 4-1/16       | 3             |
| TDBAL14V | 7/32  | 3-3/4          | 2-1/2        | 6             | TDBAL30V                               | 15/32 | 5-3/4          | 4-5/16       | 3             |
| TDBAL16V | 1/4   | 4              | 2-3/4        | 6             | TDBAL32V                               | 1/2   | 6              | 4-1/2        | 3             |
| TDBAL18V | 9/32  | 4-1/4          | 2-15/16      | 6             | Need a different size? Give us a call! |       |                |              |               |
| TDBAL19V | 19/64 | 4-3/8          | 3-1/16       | 3             |                                        |       |                |              |               |

#### Sets

| Part #     | Description                            | Part #     | Description                            |
|------------|----------------------------------------|------------|----------------------------------------|
| TDBALS012V | Left Hand Drill Bit Set 240AL 12 piece | TDBALS015V | Left Hand Drill Bit Set 240AL 15 piece |

## BOLT EXTRACTORS

### TYPE 420 • HI-CARBON STEEL • SPIRAL STYLE

Type 420 Screw & Pipe Extractors Spiral Style remove broken screws, bolts, studs, and pipes without damage to threads.



| Part # | Extractor # | To Remove Screw Dia.    | Point Diameter | Shank Size | Drill Size | Packaging Qty |
|--------|-------------|-------------------------|----------------|------------|------------|---------------|
| TEBEX1 | EX-1        | 3/32 to 5/32            | 0.06           | 1/8        | 5/64       | 5             |
| TEBEX2 | EX-2        | 5/32 to 7/32            | 0.08           | 3/16       | 7/64       | 5             |
| TEBEX3 | EX-3        | 7/32 to 9/32            | 1/8            | 1/4        | 5/32       | 5             |
| TEBEX4 | EX-4        | 9/32 to 3/8 & 1/8 pipe  | 3/16           | 5/16       | 1/4        | 5             |
| TEBEX5 | EX-5        | 3/8 to 5/8 & 1/4 pipe   | 1/4            | 7/16       | 17/64      | 5             |
| TEBEX6 | EX-6        | 5/8 to 7/8 & 3/8 pipe   | 3/8            | 5/8        | 13/32      | -             |
| TEBEX7 | EX-7        | 7/8 to 1-1/8 & 1/2 pipe | 15/32          | 7/8        | 17/32      | -             |

# BOLT EXTRACTORS, QUICK RELEASE DRILL BITS

## TYPE 421-UB • FORGED HI-CARBON STEEL SUPER PREMIUM • SQUARE STYLE

Type 421-UB Studout™ Screw & Pipe Extractors Square Style remove broken screws, bolts, studs, and pipes with minimal deformation of the broken part. The square style also will not chew up or expand the object being removed.



| Part # | Extractor # | To Remove Screw Dia. | Point Diameter | Shank Size | Drill Size | Packaging Qty |
|--------|-------------|----------------------|----------------|------------|------------|---------------|
| TEBE1  | E-1         | 3/16 - 9/32          | 1/8            | 3/16       | 1/8        | -             |
| TEBE2  | E-2         | 9/32 - 11/32         | 11/64          | 1/4        | 3/16       | 5             |
| TEBE3  | E-3         | 11/32 - 1/2          | 7/32           | 5/16       | 1/4        | 5             |
| TEBE4  | E-4         | 1/2 - 3/4            | 9/32           | 3/8        | 5/16       | -             |
| TEBE5  | E-5         | 5/8 - 7/8            | 21/64          | 7/16       | 3/8        | -             |

To remove the broken threaded part: Drill a hole in the end of the broken part (left hand drills are recommended), then turn counterclockwise using a wrench on the exposed end of the extractor.

## BOLT EXTRACTOR SETS

| Part #      | Description                                                                                   | Drill Sizes | Number of Pieces |
|-------------|-----------------------------------------------------------------------------------------------|-------------|------------------|
| TEBSBR8SQ   | 4 Piece Bolt Extractor Set Type 421-UB E1-E4 And 240AL Left Hand Drill Bits                   | 1/8 - 5/16  | 8                |
| TEBSBR10    | 5 Piece Bolt Extractor Spiral Set Type 420 EX1-EX5 & 240AL Left Hand Drill Bits               | 3/32 - 5/16 | 10               |
| TEBSBR10SQX | 5 Piece Bolt Extractor Square Set E1-E5 With Left Hand Drill Bits 1/8, 3/16, 1/4, 5/16, & 3/8 | 1/8 - 3/8   | 10               |



## QUICK RELEASE DRILL BITS

### TYPE QR-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT

Type QR-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. The 1/4" quick release hex shank suits them especially for hand held drills and impact tools. Type QR-UB are mechanics length.



### Fractional

| Part #   | Size | Overall Length | Flute Length | Packaging Qty | Part #   | Size | Overall Length | Flute Length | Packaging Qty |
|----------|------|----------------|--------------|---------------|----------|------|----------------|--------------|---------------|
| TDBQR08V | 1/8  | 3-1/4          | 1-7/16       | 6             | TDBQR16V | 1/4  | 4-1/4          | 2            | 6             |
| TDBQR10V | 5/32 | 3-1/2          | 1-11/16      | 6             | TDBQR20V | 5/16 | 4              | 2-1/2        | 3             |
| TDBQR12V | 3/16 | 3-3/4          | 1-11/16      | 6             | TDBQR24V | 3/8  | 4-1/4          | 2-11/16      | 3             |
| TDBQR14V | 7/32 | 4              | 2            | 6             | TDBQR32V | 1/2  | 5              | 3-3/8        | 3             |



# MASONRY DRILL BITS

## MASONRY DRILL BITS

### TAPCON™ STYLE

Tapcon™ Style Drill Bits are constructed of hardened alloy steel with a close tolerance carbide tip. They are designed especially for drilling holes for masonry anchor screws with self tapping threads.



#### Fractional

| Part #     | Size         | Packaging Qty | Part #     | Size         | Packaging Qty |
|------------|--------------|---------------|------------|--------------|---------------|
| TDBMA1036P | 5/32 x 4-1/2 | 25            | TDBMA1236P | 3/16 x 4-1/2 | 25            |
| TDBMA1044P | 5/32 x 5-1/2 | 25            | TDBMA1244P | 3/16 x 5-1/2 | 25            |

### TYPE 390 ▪ ROTARY STYLE ▪ CARBIDE TIPPED

Type 390 Masonry Drill Bits are made with hardened steel bodies and are bright finished. They don't require any special equipment. Use them in any electric drill. They will drill through brick, tile, concrete, and marble.



#### Fractional

| Part #     | Size     | Packaging Qty | Part #     | Size     | Packaging Qty |
|------------|----------|---------------|------------|----------|---------------|
| TDBMA1232P | 3/16 x 4 | 12            | TDBMA2448P | 3/8 x 6  | 6             |
| TDBMA1248P | 3/16 x 6 | 12            | TDBMA2848P | 7/16 x 6 | 6             |
| TDBMA1648P | 1/4 x 6  | 12            | TDBMA3248P | 1/2 x 6  | 6             |
| TDBMA2048P | 5/16 x 6 | 6             | TDBMA4048P | 5/8 x 6  | 1             |

### SDS SHANK IMPACT HAMMER

Impact Hammer Drills with an SDS Shank fit all rotary hammer drills that specify an SDS shank. The positive drive slots deliver maximum torque and hammering energy for faster drilling. They perform excellently over a wide variety of masonry applications.



#### Fractional

| Part #        | Size          | Packaging Qty | Part #         | Size           | Packaging Qty |
|---------------|---------------|---------------|----------------|----------------|---------------|
| TDBMASDS1004T | 5/32 x 4-1/4  | 1             | TDBMASDS2812T  | 7/16 x 12-5/8  | 1             |
| TDBMASDS1210T | 3/16 x 10     | 1             | TDBMASDS3210T  | 1/2 x 10-5/8   | 1             |
| TDBMASDS1212T | 3/16 x 12     | 1             | TDBMASDS3212T  | 1/2 x 12-5/8   | 1             |
| TDBMASDS1206T | 3/16 x 6-3/8  | 1             | TDBMASDS3612T  | 9/16 x 12-3/4  | 1             |
| TDBMASDS1208T | 3/16 x 8-1/4  | 50            | TDBMASDS4012T  | 5/8 x 12-3/4   | 1             |
| TDBMASDS1608T | 1/4 x 8-5/8   | 1             | TDBMASDS4412T  | 11/16 x 12-3/4 | 1             |
| TDBMASDS2012T | 5/16 x 12-5/8 | 1             | TDBMASDS4812T  | 3/4 x 12-3/4   | 1             |
| TDBMASDS2410T | 3/8 x 10-5/8  | 1             | TDBMASDSM4821T | 3/4 x 23-1/2   | 1             |
| TDBMASDS2412T | 3/8 x 12-5/8  | 1             |                |                |               |

## METRIC DRILL BITS

### TYPE 643-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT

Type 643-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. They are recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. Type 643-UB comes in jobber length with round shanks.



| Part #   | Size | Overall Length | Flute Length  | Packaging Qty |
|----------|------|----------------|---------------|---------------|
| TMDBH05V | M5   | 3-5/8 (92mm)   | 2-7/16 (62mm) | 10            |
| TMDBH06V | M6   | 4 (102mm)      | 2-3/4 (70mm)  | 10            |
| TMDBH08V | M8   | 4-1/2 (114mm)  | 3-3/16 (81mm) | 5             |
| TMDBH10V | M10  | 5-1/8 (130mm)  | 3-3/4 (95mm)  | 5             |
| TMDBH12V | M12  | 5-7/8 (149mm)  | 4-3/8 (111mm) | 5             |

Need a different size? Give us a call!

## STEP DRILL BITS

### TYPE 78-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT

Type 78-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. Type 78-UB comes with 3 flats on the shank.



| Part #   | Size        | Shank Size | Step Increments | Step Thickness |
|----------|-------------|------------|-----------------|----------------|
| TSD0832V | 1/8-1/2     | 1/4        | 1/32            | 1/8            |
| TSD1664V | 1/4-1       | 3/8        | 1/16            | 5/32           |
| TSD1648V | 1/4-3/4     | 3/8        | 1/16            | 5/32           |
| TSD1232V | 3/16-1/2    | 1/4        | 1/16            | 3/8            |
| TSD1256V | 3/16-7/8    | 3/8        | 1/16            | 1/8            |
| TSD5672V | 7/8-1 1/8   | 3/8        | 27/64           | 9/64           |
| TSD5688V | 1/4-1 3/8 * | 3/8        | 1/8             | -              |
| TSD1672V | 1/4 A       | 3/8        | 1/16            | 1/16           |

\*Steps for this size are 7/8, 1 1/8, 1 7/32, 1 1/4, 1 3/8

### STEP DRILL SETS

| Part # | Size                          |
|--------|-------------------------------|
| TSDS3V | 1/8-1/2, 3/16-1/2, & 3/16-7/8 |



# STEP DRILL BITS, COUNTERSINK/DRILL COMBOS, TAPS



## TYPE 78-QR • QUICK RELEASE

| Part #     | Size     | Shank Size | Step Increments | Step Thickness |
|------------|----------|------------|-----------------|----------------|
| TSDQR0832V | 1/8-1/2  | 1/4        | 1/32            | 1/8            |
| TSDQR1648V | 1/4-3/4  | 1/4        | 1/16            | 5/32           |
| TSDQR1232V | 3/16-1/2 | 1/4        | 1/16            | 3/8            |
| TSDQR1256V | 3/16-7/8 | 1/4        | 1/16            | 1/8            |

## COUNTERSINK/DRILL COMBOS

### TYPE 296 • HIGH SPEED STEEL • 118° POINT

Type 296 Countersink/Drill Combos provide an easy way to drill your hole and countersink it in thin materials.



| Part # | Body Diameter | Drill Dia. & Length | Overall Length | Packaging Qty |
|--------|---------------|---------------------|----------------|---------------|
| TCD03V | 1/4           | 7/64 x 7/64         | 2              | 5             |
| TCD04V | 5/16          | 1/8 x 1/8           | 2-1/8          | 5             |
| TCD05V | 7/16          | 3/16 x 3/16         | 2-3/4          | 5             |

## TAPS

### TYPE 20-UB • ULTRA BOR SUPER PREMIUM • SPIRAL POINT • PLUG STYLE

Type 20-UB Taps are manufactured from special Hi-Tungsten and Hi-Molybdenum tool steels, gold surface treated for maximum lubricity. Spiral point construction drives the chips ahead of the tap, permitting higher speeds with less torque. They are recommended for hard steel, aluminum, magnesium, and malleable cast iron and are ideal for production tapping of through holes.



#### Coarse Thread

| Part #   | Thread | Drill Size | Flutes | Packaging Qty | Part #  | Thread  | Drill Size | Flutes | Packaging Qty |
|----------|--------|------------|--------|---------------|---------|---------|------------|--------|---------------|
| TTP004V  | 4-40   | #43        | 2      | 3             | TTP020V | 5/16-18 | F          | 2      | 3             |
| TTP005V  | 5-40   | #38        | 2      | 3             | TTP024V | 3/8-16  | 5/16       | 3      | 3             |
| TTP006V  | 6-32   | #36        | 2      | 3             | TTP028V | 7/16-14 | U          | 3      | 3             |
| TTP008V  | 8-32   | #29        | 2      | 3             | TTP032V | 1/2-13  | 27/64      | 3      | 3             |
| TTP010V  | 10-24  | #25        | 2      | 3             | TTP040V | 5/8-11  | 17/32      | 3      | 1             |
| TTP012V  | 12-24  | #16        | 2      | 3             | TTP048V | 3/4-10  | 21/32      | 3      | 1             |
| TTP0116V | 1/4-20 | #7         | 2      | 3             |         |         |            |        |               |

#### Fine Thread

| Part #   | Thread  | Drill Size | Flutes | Packaging Qty | Part #   | Thread  | Drill Size | Flutes | Packaging Qty |
|----------|---------|------------|--------|---------------|----------|---------|------------|--------|---------------|
| TTPF010V | 10-32   | #21        | 2      | 3             | TTPF028V | 7/16-20 | 25/64      | 3      | 3             |
| TTPF016V | 1/4-28  | #3         | 2      | 3             | TTPF032V | 1/2-20  | 29/64      | 3      | 3             |
| TTPF020V | 5/16-24 | I          | 2      | 3             | TTPF040V | 5/8-18  | -          | 3      | 1             |
| TTPF024V | 3/8-24  | Q          | 3      | 3             | TTPF048V | 3/4-16  | -          | 3      | 1             |

## TYPE 24-UB • GOLD OXIDE • HSS STRAIGHT FLUTE HAND TAPS

Machine Screw / Fractional - Ground Thread - Ultra Bor Super Premium



## Coarse Thread

| Part #    | Thread  | Drill Size | Flutes |
|-----------|---------|------------|--------|
| TTP03624V | 9/16-12 | 31/64      | 4      |
| TTP05624V | 7/8-9   | 49/64      | 4      |
| TTP06424V | 1-8     | 7/8        | 4      |

## TYPE 24-UB • GOLD OXIDE • HSS STRAIGHT FLUTE HAND TAPS

## Fine Thread

| Part #     | Thread  | Drill Size | Flutes |
|------------|---------|------------|--------|
| TTPF03624V | 9/16-18 | 33/64      | 4      |



## TYPE 25-UB • ULTRA BOR SUPER PREMIUM • BOTTOMING STYLE

Type 25-UB Taps are manufactured from special Hi-Tungsten and Hi-Molybdenum tool steels, gold surface treated for maximum lubricity. Bottoming style has only 1 1/2 threads chamfered. Use when tapping threads to the bottom of a hole.



## Coarse Thread

| Part #  | Thread  | Drill Size | Flutes | Packaging Qty | Part #  | Thread  | Drill Size | Flutes | Packaging Qty |
|---------|---------|------------|--------|---------------|---------|---------|------------|--------|---------------|
| TTB006V | #6-32   | #36        | 3      | 3             | TTB028V | 7/16-14 | U          | 4      | 3             |
| TTB008V | #8-32   | #29        | 4      | 3             | TTB032V | 1/2-13  | 27/64      | 4      | 3             |
| TTB010V | #10-24  | #25        | 4      | 3             | TTB036F | 9/16-12 | 31/64      | 4      | 1             |
| TTB016V | 1/4-20  | #7         | 4      | 3             | TTB040V | 5/8-11  | 17/32      | 4      | 1             |
| TTB020V | 5/16-18 | F          | 4      | 3             | TTB048V | 3/4-10  | 21/32      | 4      | 1             |
| TTB024V | 3/8-16  | 5/16       | 4      | 3             | TTB064V | 1-8     | 7/8        | 4      | 1             |

## Fine Thread

| Part #   | Thread | Drill Size | Flutes | Packaging Qty | Part #   | Thread  | Drill Size | Flutes | Packaging Qty |
|----------|--------|------------|--------|---------------|----------|---------|------------|--------|---------------|
| TTBF006V | #6-40  | #33        | 3      | 3             | TTBF020V | 5/16-24 | I          | 4      | 3             |
| TTBF008V | #8-36  | #29        | 4      | 3             | TTBF028V | 3/8-24  | Q          | 4      | 3             |
| TTBF010V | #10-32 | #21        | 4      | 3             | TTBF032V | 1/2-20  | 29/64      | 4      | 3             |
| TTBF016V | 1/4-28 | #3         | 4      | 3             |          |         |            |        |               |

TAPS

TYPE 30-UB ▪ TAPER PIPE ▪ ULTRA BOR SUPER PREMIUM ▪ PLUG STYLE

Type 30-UB Taps are manufactured from special Hi-Tungsten and Hi-Molybdenum tool steels, threads black surface treated for wear resistance, body gold surface treated. Plug style has 3-5 threads chamfered.



National Pipe Thread

| Part #   | Thread | Flutes | Packaging Qty |
|----------|--------|--------|---------------|
| TTPT008V | 1/8-27 | 4      | 3             |
| TTPT016V | 1/4-18 | 4      | 3             |
| TTPT024V | 3/8-18 | 4      | 1             |
| TTPT032V | 1/2-14 | 4      | 1             |
| TTPT048V | 3/4-14 | 5      | 3             |

| Part #   | Thread         | Flutes | Packaging Qty |
|----------|----------------|--------|---------------|
| TTPT064V | 1 - 11-1/2     | 5      | 3             |
| TTPT080V | 1-1/4-11-1/2   | 5      | 1             |
| TTPT096V | 1-1/2 - 11-1/2 | 7      | 1             |
| TTPT128V | 2 - 11-1/2     | 7      | 1             |



TYPE 40-UB ▪ COMBINATION DRILL & TAP

Coarse Thread

| Part #  | Size    | Max Material Thickness | Thread Length |
|---------|---------|------------------------|---------------|
| TTD010V | #10-24  | 0.606                  | 0.496         |
| TTD016V | 1/4-20  | 0.746                  | 0.626         |
| TTD020V | 5/16-18 | 0.889                  | 0.683         |
| TTD024V | 3/8-16  | 1.031                  | 0.746         |

| Part #  | Size    | Max Material Thickness | Thread Length |
|---------|---------|------------------------|---------------|
| TTD028V | 7/16-14 | 1.172                  | 0.882         |
| TTD032V | 1/2-13  | 1.378                  | 0.940         |
| TTD040V | 5/8-11  | 1.412                  | 0.940         |

Fine Thread

| Part #   | Size    | Max Material Thickness | Thread Length |
|----------|---------|------------------------|---------------|
| TTDF010V | #10-32  | 0.608                  | 0.496         |
| TTDF016V | 1/4-28  | 0.750                  | 0.626         |
| TTDF020V | 5/16-24 | 0.893                  | 0.683         |
| TTDF024V | 3/8-24  | 1.036                  | 0.746         |

| Part #   | Size    | Max Material Thickness | Thread Length |
|----------|---------|------------------------|---------------|
| TTDF028V | 7/16-20 | 1.178                  | 0.880         |
| TTDF032V | 1/2-20  | 1.384                  | 0.940         |
| TTDF040V | 5/8-18  | 1.421                  | 0.940         |

Metric

| Part #   | Size    | Max Material Thickness | Thread Length |
|----------|---------|------------------------|---------------|
| TMTDC05V | M5-0.8  | 0.610                  | 0.496         |
| TMTDC06V | M6-1    | 0.746                  | 0.626         |
| TMTDC08V | M8-1.25 | 0.892                  | 0.686         |

| Part #   | Size     | Max Material Thickness | Thread Length |
|----------|----------|------------------------|---------------|
| TMTDC10V | M10-1.5  | 1.037                  | 0.746         |
| TMTDC12V | M12-1.75 | 1.373                  | 0.942         |

Sets

| Part #  | Size                                                   |
|---------|--------------------------------------------------------|
| TTDS07V | Tap/Drill Combo Set Coarse Thread 8-32 - 1/2-13 (7 pc) |

| Part #   | Size                                                 |
|----------|------------------------------------------------------|
| TTDSF07V | Tap/Drill Combo Set Fine Thread 8-36 - 1/2-20 (7 pc) |

## 40-QR • 1/4" QUICK RELEASE DRILL &amp; TAP COMBO



## Coarse Thread

| Part #   | Size   | Max Material Thickness | Thread Length |
|----------|--------|------------------------|---------------|
| TTDQ006V | #6-32  | 0.170                  | 0.283         |
| TTDQ010V | #10-24 | 0.200                  | 0.363         |
| TTDQ016V | 1/4-20 | 0.230                  | 0.326         |

| Part #   | Size    | Max Material Thickness | Thread Length |
|----------|---------|------------------------|---------------|
| TTDQ020V | 5/16-18 | 0.480                  | 0.614         |
| TTDQ024V | 3/8-16  | 0.480                  | 0.585         |

## Fine Thread

| Part #    | Size   | Max Material Thickness | Thread Length |
|-----------|--------|------------------------|---------------|
| TTDQF010V | #10-32 | 0.200                  | 0.363         |

| Part #    | Size   | Max Material Thickness | Thread Length |
|-----------|--------|------------------------|---------------|
| TTDQF016V | 1/4-28 | 0.230                  | 0.326         |

## Metric

| Part #    | Thread  | Max Material Thickness | Thread Length |
|-----------|---------|------------------------|---------------|
| TMTDCQ06V | M6-1    | 0.230                  | 0.376         |
| TMTDCQ08V | M8-1.25 | 0.480                  | 0.638         |

| Part #    | Thread  | Max Material Thickness | Thread Length |
|-----------|---------|------------------------|---------------|
| TMTDCQ10V | M10-1.5 | 0.480                  | 0.595         |

## DIE &amp; TAP

## Professional Quality Die Stock

| Part #   | For Die Size     |
|----------|------------------|
| TDST16PV | 1 Hex or 1 Round |

| Part #   | For Die Size              |
|----------|---------------------------|
| TDST23PV | 1-7/16 Hex or 1-1/2 Round |



## Professional Quality Tap Wrench

| Part #   | Description                                     |
|----------|-------------------------------------------------|
| TTRW048V | Tap & Reamer Wrench Professional Quality #4-1/2 |

| Part #   | Description                                       |
|----------|---------------------------------------------------|
| TTRW412V | Tap & Reamer Wrench Professional Quality 1/4- 3/4 |

DIES

TYPE 27-UB • ULTRA BOR SUPER PREMIUM • HEX

Type 27-UB Dies are manufactured from Hi-Molybdenum tool steel. They have a polished gold finish on the body with black surface treated threads for long life. They are used for threading rods, bolts, studs, and other external threads. The hex configuration allows both wrench and die stock use in threading.



Coarse Thread

| Part # | Thread  | Across Flats | Packaging Qty | Part # | Thread  | Across Flats | Packaging Qty |
|--------|---------|--------------|---------------|--------|---------|--------------|---------------|
| TD016V | 1/4-20  | 1            | 3             | TD036V | 9/16-12 | 1-7/16       | 1             |
| TD020V | 5/16-18 | 1            | 3             | TD040V | 5/8-11  | 1-7/16       | 1             |
| TD024V | 3/8-16  | 1            | 3             | TD048V | 3/4-10  | 1-7/16       | 1             |
| TD032V | 1/2-13  | 1            | 3             |        |         |              |               |

Fine Thread

| Part # | Thread  | Across Flats | Packaging Qty | Part # | Thread  | Across Flats | Packaging Qty |
|--------|---------|--------------|---------------|--------|---------|--------------|---------------|
| TDF16V | 1/4-28  | 1            | 3             | TDF36V | 9/16-18 | 1-7/16       | 1             |
| TDF20V | 5/16-24 | 1            | 3             | TDF40V | 5/8-18  | 1-7/16       | 1             |
| TDF28V | 7/16-20 | 1            | 3             | TDF48V | 3/4-16  | 1-7/16       | 1             |
| TDF32V | 1/2-20  | 1            | 3             |        |         |              |               |

TAP & DIE SETS



| Part #   | Description                                                | Number of Pieces | Part #  | Description                                           | Number of Pieces |
|----------|------------------------------------------------------------|------------------|---------|-------------------------------------------------------|------------------|
| TMTDS24V | SP-24TDI 24 Piece Ultra Bore Tap and Die Set Metric M3-M12 | 24               | TTDS58V | SF-58TDI Tap & Die Set #6 to 3/4 Coarse & Fine 58 pc. | 58               |
| TTDS25V  | SP-25TDI 25 Piece UB Tap and Die Set 1/4-1/2               | 25               |         |                                                       |                  |

## METRIC TAPS

### TYPE 21-UB • ULTRA BOR SUPER PREMIUM • SPIRAL POINT • PLUG STYLE

Type 21-UB Taps are manufactured from special Hi-Tungsten and Hi-Molybdenum tool steels, gold surface treated for maximum lubricity. Spiral point construction drives the chips ahead of the tap, permitting higher speeds with less torque. They are recommended for hard steel, aluminum, magnesium, and malleable cast iron and are ideal for production tapping of through holes.



#### Coarse Thread

| Part #  | Thread  | Drill Size | Flutes | Packaging Qty | Part #  | Thread   | Drill Size | Flutes | Packaging Qty |
|---------|---------|------------|--------|---------------|---------|----------|------------|--------|---------------|
| TMTP04V | M4-.7   | M3.3       | 2      | 3             | TMTP12V | M12-1.75 | Y          | 3      | 3             |
| TMTP05V | M5-.8   | M4.2       | 2      | 3             | TMTP14V | M14-2.0  | M12        | 3      | 1             |
| TMTP06V | M6-1.0  | M5         | 2      | 3             | TMTP16V | M16-2.0  | M14        | 3      | 1             |
| TMTP08V | M8-1.25 | H          | 2      | 3             | TMTP20V | M20-2.50 | M17.5      | 3      | 1             |
| TMTP10V | M10-1.5 | M8.5       | 3      | 3             |         |          |            |        |               |

#### Fine Thread

| Part #   | Thread | Drill Size | Flutes | Packaging Qty |
|----------|--------|------------|--------|---------------|
| TMTPF08V | M8-1.0 | M7         | 2      | 3             |



### TYPE 32-UB • STRAIGHT FLUTE • PLUG STYLE

| Part #     | Thread   | Drill Size | Flutes | Packaging Qty |
|------------|----------|------------|--------|---------------|
| TMTPF1032V | M10-1.25 | 11/32      | 4      | 1             |
| TMTPF1232V | M12-1.5  | M10.5      | 4      | 1             |
| TMTPF1432V | M14-1.5  | M12.5      | 4      | 1             |
| TMTPF1632V | M16-1.5  | M14.5      | 4      | 1             |
| TMTPF1832V | M18-1.5  | M16.5      | 4      | 1             |
| TMTPF2032V | M20-1.5  | M18.5      | 4      | 1             |

## METRIC DIES

### TYPE 27-UB • ULTRA BOR SUPER PREMIUM • HEX

Type 27-UB Dies are manufactured from Hi-Molybdenum tool steel. They have a polished gold finish on the body with black surface treated threads for long life. They are used for threading rods, bolts, studs, and other external threads. The hex configuration allows both wrench and die stock use in threading.



#### Coarse Thread

| Part # | Thread  | Across Flats | Packaging Qty | Part # | Thread   | Across Flats | Packaging Qty |
|--------|---------|--------------|---------------|--------|----------|--------------|---------------|
| TMD04V | M4-0.7  | 1            | 3             | TMD10V | M10-1.5  | 1            | 3             |
| TMD05V | M5-0.8  | 1            | 3             | TMD12V | M12-1.75 | 1-7/16       | 1             |
| TMD06V | M6-1.0  | 1            | 3             |        |          |              |               |
| TMD08V | M8-1.25 | 1            | 3             |        |          |              |               |

Need a different size? Give us a call!



## REAMERS

### REAMERS

#### TYPE 50-UB • ULTRA BOR SUPER PREMIUM

Type 50-UB Car Reamers are made of Hi-Tungsten tool steel. They have a gold surface treated body and clearance for maximum lubricity. They can only be used to enlarge existing holes. They have a left hand spiral with a right hand cut. The left hand spiral eliminates the tendency to hog into holes. They are especially designed for reaming structural steel plate in truck frames, rail cars, bridges, and structural steel assemblies.



| Part # | Sizes  | Min. Starting Hole Size | Overall Length | Shank Diameter |
|--------|--------|-------------------------|----------------|----------------|
| TR24V  | 3/8    | 5/16                    | 4-5/8          | 3/8            |
| TR32V  | 1/2    | 3/8                     | 5-7/8          | 1/2            |
| TR36V  | 9/16   | 7/16                    | 5-7/8          | 1/2            |
| TR40V  | 5/8    | 7/16                    | 6-3/8          | 1/2            |
| TR48V  | 3/4    | 1/2                     | 6-3/8          | 1/2            |
| TR56V  | 7/8    | 19/32                   | 6-7/8          | 1/2            |
| TR64V  | 1      | 7/8                     | 6-7/8          | 1/2            |
| TR78V  | 1-3/16 | 3/4                     | 6-7/8          | 1/2            |
| TR80V  | 1-1/4  | 1                       | 6-7/8          | 1/2            |

#### TYPE 50-UB SETS

| Part # | Sizes              | Number of Pieces |
|--------|--------------------|------------------|
| TRSV   | 3/8, 1/2, 5/8, 3/4 | 4                |



#### TYPE 51-UB • ULTRA BOR SUPER PREMIUM • FAST SPIRAL

| Part # | Sizes | Min. Starting Hole Size | Overall Length | Shank Diameter |
|--------|-------|-------------------------|----------------|----------------|
| TRF20V | 5/16  | 3/16                    | 4-5/8          | 5/16           |
| TRF24V | 3/8   | 1/4                     | 4-5/8          | 3/8            |
| TRF28V | 7/16  | 9/32                    | 5-7/8          | 7/16           |
| TRF32V | 1/2   | 5/16                    | 5-7/8          | 1/2            |
| TRF36V | 9/16  | 5/16                    | 5-7/8          | 1/2            |
| TRF40V | 5/8   | 11/32                   | 6-3/8          | 1/2            |
| TRF44V | 11/16 | 13/32                   | 6-3/8          | 1/2            |
| TRF48V | 3/4   | 7/16                    | 6-7/8          | 1/2            |
| TRF52V | 13/16 | 1/2                     | 6-7/8          | 1/2            |
| TRF56V | 7/8   | 17/32                   | 6-7/8          | 1/2            |
| TRF60V | 15/16 | 19/32                   | 6-7/8          | 1/2            |
| TRF64V | 1     | 5/8                     | 6-7/8          | 1/2            |

## ANNULAR CUTTERS

## CARBIDE TIPPED

Carbide tipped annular cutters outperform high-speed steel annular cutters when drilling harder materials such as stainless steel, grade wear resistant steel.



| Part #    | Size      |
|-----------|-----------|
| TACC0321V | 1/2 x 1   |
| TACC0322V | 1/2 x 2   |
| TACC0361V | 9/16 x 1  |
| TACC0362V | 9/16 x 2  |
| TACC0401V | 5/8 x 1   |
| TACC0402V | 5/8 x 2   |
| TACC0441V | 11/16 x 1 |
| TACC0442V | 11/16 x 2 |
| TACC0481V | 3/4 x 1   |
| TACC0482V | 3/4 x 2   |
| TACC0521V | 13/16 x 1 |

| Part #    | Size       |
|-----------|------------|
| TACC0522V | 13/16 x 2  |
| TACC0561V | 7/8 x 1    |
| TACC0562V | 7/8 x 2    |
| TACC0601V | 15/16 x 1  |
| TACC0602V | 15/16 x 2  |
| TACC0641V | 1 x 1      |
| TACC0642V | 1 x 2      |
| TACC0681V | 1-1/16 x 1 |
| TACC0682V | 1-1/16 x 2 |

## ANNULAR CUTTER PILOT PINS



| Part #        | Size     | Cutter Diameter |
|---------------|----------|-----------------|
| TACPP1-15C04V | 1/4 x 1  | 1/2 - 5/8       |
| TACPP1-15C05V | 5/16 x 1 | 11/16 - 2-3/8   |

| Part #         | Size     | Cutter Diameter |
|----------------|----------|-----------------|
| TACPP2-15CLO4V | 1/4 x 2  | 1/2 - 5/8       |
| TACPP2-15CLO5V | 5/16 x 2 | 11/16 - 2-3/8   |

## ANNULAR CUTTER SETS

| Part #  | Size              | Number of Sizes | Number of Pieces |
|---------|-------------------|-----------------|------------------|
| TACCS1V | 9/16 - 1-1/16 x 1 | 5               | 5                |
| TACCS2V | 9/16 - 1-1/16 x 2 | 5               | 5                |



# HOLE HOGS™, HOLE CUTTERS

## HOLE HOGS™

### TYPE 284-UB • ULTRA BOR SUPER PREMIUM

Type 284-UB Core Drills are made of Hi-Molybdenum tool steel. They have a gold surface treated body and clearance for maximum lubricity. They can only be used to enlarge existing holes. The 4 flute design eliminates the catching and hogging-in experienced with standard drills.



| Part # | Size | Min. Starting Hole Size | Overall Length | Flute Length |
|--------|------|-------------------------|----------------|--------------|
| THH24V | 3/8  | 1/4                     | 4-5/16         | 17/8         |
| THH32V | 1/2  | 5/16                    | 4-5/16         | 17/8         |
| THH36V | 9/16 | 3/8                     | 4-5/16         | 17/8         |
| THH40V | 5/8  | 25/64                   | 4-5/16         | 17/8         |
| THH48V | 3/4  | 15/32                   | 4-5/16         | 17/8         |

## HOLE CUTTERS

### TYPE CHC-UB • ULTRA BOR SUPER PREMIUM • CARBIDE TIPPED

Type CHC-UB Carbide Tipped Holecutters easily cut holes in pipe and steel plate up to 3/16" thick and easily produce overlapping and interrupted holes. They have a 3 flattened shank for keyless chucks. They produce holes 3 times faster than bi-metal hole saws.



| Part # | Size   | Shank Size | Part # | Size   | Shank Size |
|--------|--------|------------|--------|--------|------------|
| THC10V | 5/8    | 3/8        | THC32A | 2      | 3/8        |
| THC12A | 3/4    | 3/8        | THC33A | 2-1/16 | 3/8        |
| THC14A | 7/8    | 3/8        | THC36A | 2-1/4  | 3/8        |
| THC16A | 1      | 3/8        | THC37V | 2-5/16 | 3/8        |
| THC17A | 1-1/16 | 3/8        | THC40A | 2-1/2  | 1/2        |
| THC18A | 1-1/8  | 3/8        | THC44A | 2-3/4  | 1/2        |
| THC19A | 1-3/16 | 3/8        | THC48V | 3      | 1/2        |
| THC20A | 1-1/4  | 3/8        | THC54V | 3-1/2  | 1/2        |
| THC22A | 1-3/8  | 3/8        | THC60V | 3-3/4  | 1/2        |
| THC24A | 1-1/2  | 3/8        | THC64V | 4      | 1/2        |
| THC26A | 1-5/8  | 3/8        | THC72V | 4-1/2  | 1/2        |
| THC28A | 1-3/4  | 3/8        |        |        |            |

### HSS PILOT DRILL FOR CHC-UB

| Part # | Description                                          |
|--------|------------------------------------------------------|
| THCPD  | Carbide Tipped Hole Cutter Regular Depth Pilot Drill |



## TYPE CHD-UB • ULTRA BOR SUPER PREMIUM • CARBIDE TIPPED

Type CHD-UB Deep Hole Carbide Tipped Holecutters easily cut holes in pipe and steel plate up to 1" thick and easily produce overlapping and interrupted holes. They have a 3 flatted shank for keyless chucks. They produce holes 3 times faster than bi-metal hole saws.



| Part #   | Size    | Shank Size | Part #   | Size    | Shank Size |
|----------|---------|------------|----------|---------|------------|
| THCED09A | 9/16    | 3/8        | THCED29A | 1-13/16 | 3/8        |
| THCED10A | 5/8     | 3/8        | THCED30A | 1-7/8   | 3/8        |
| THCED11A | 11/16   | 3/8        | THCED32A | 2       | 1/2        |
| THCED12A | 3/4     | 3/8        | THCED33V | 2-1/16  | 3/8        |
| THCED14A | 7/8     | 3/8        | THCED34A | 2-1/8   | 1/2        |
| THCED16A | 1       | 3/8        | THCED36A | 2-1/4   | 1/2        |
| THCED17A | 1-1/16  | 3/8        | THCED37A | 2-5/16  | 1/2        |
| THCED18A | 1-1/8   | 3/8        | THCED40A | 2-1/2   | 1/2        |
| THCED19A | 1-3/16  | 3/8        | THCED42A | 2-5/8   | 1/2        |
| THCED20A | 1-1/4   | 3/8        | THCED44A | 2-3/4   | 1/2        |
| THCED21A | 1-5/16  | 3/8        | THCED46A | 2-7/8   | 1/2        |
| THCED22A | 1-3/8   | 3/8        | THCED48A | 3       | 1/2        |
| THCED23A | 1-7/16  | 3/8        | THCED52V | 3-1/4   | 1/2        |
| THCED24A | 1-1/2   | 3/8        | THCED56V | 3-1/2   | 1/2        |
| THCED26A | 1-5/8   | 3/8        | THCED60V | 3-3/4   | 1/2        |
| THCED27A | 1-11/16 | 3/8        | THCED64V | 4       | 1/2        |
| THCED28A | 1-3/4   | 3/8        | THCED72V | 4-1/2   | 1/2        |

## HSS PILOT DRILL FOR CHD-UB

| Part #   | Description                                        |
|----------|----------------------------------------------------|
| THCEDPDV | Carbide Tipped Hole Cutter Extra Depth Pilot Drill |



## HOLE SAWS

## MORSE BI-METAL HOLE SAWS

The Bi-Metal Hole Saw features a patented tooth set design that delivers faster hole cutting. The saw's solid cap minimizes runout and vibration for a more accurate cut. With a cutting depth of 1-15/16", the saws are designed for general purpose use across a wide range of materials including wood, plastic, machinable metals, stainless steel alloys, and nail-embedded wood. An enhanced side slot offers increased leverage for faster and easier slug removal.



| Part #  | Size               | Thread | Part #  | Size               | Thread |
|---------|--------------------|--------|---------|--------------------|--------|
| THSB10M | 5/8" x 1-15/16"    | 1/2-20 | THSB20M | 1-1/4" x 1-15/16"  | 5/8-18 |
| THSB12M | 3/4" x 1-15/16"    | 1/2-20 | THSB22M | 1-3/8" x 1-15/16"  | 5/8-18 |
| THSB14M | 7/8" x 1-15/16"    | 1/2-20 | THSB24M | 1-1/2" x 1-15/16"  | 5/8-18 |
| THSB16M | 1" x 1-15/16"      | 1/2-20 | THSB28M | 1-3/4" x 1-15/16"  | 5/8-18 |
| THSB17M | 1-1/16" x 1-15/16" | 1/2-20 | THSB32M | 2" x 1-15/16"      | 5/8-18 |
| THSB18M | 1-1/8" x 1-15/16"  | 1/2-20 | THSB33M | 2-1/16" x 1-15/16" | 5/8-18 |
| THSB19M | 1-3/16" x 1-15/16" | 1/2-20 | THSB34M | 2-1/8" x 1-15/16"  | 5/8-18 |

# HOLE SAWS

## MORSE BI-METAL HOLE SAWS

| Part #  | Size              | Thread |
|---------|-------------------|--------|
| THSB36M | 2-1/4" x 1-15/16" | 5/8-18 |
| THSB40M | 2-1/2" x 1-15/16" | 5/8-18 |
| THSB42M | 2-5/8" x 1-15/16" | 5/8-18 |
| THSB44M | 2-3/4" x 1-15/16" | 5/8-18 |
| THSB48M | 3" x 1-15/16"     | 5/8-18 |
| THSB50M | 3-1/8" x 1-15/16" | 5/8-18 |
| THSB52M | 3-1/4" x 1-15/16" | 5/8-18 |
| THSB54M | 3-3/8" x 1-15/16" | 5/8-18 |
| THSB56M | 3-1/2" x 1-15/16" | 5/8-18 |
| THSB58M | 3-5/8" x 1-15/16" | 5/8-18 |

| Part #  | Size              | Thread |
|---------|-------------------|--------|
| THSB60M | 3-3/4" x 1-15/16" | 5/8-18 |
| THSB64M | 4" x 1-15/16"     | 5/8-18 |
| THSB66M | 4-1/8" x 1-15/16" | 5/8-18 |
| THSB68M | 4-1/4" x 1-15/16" | 5/8-18 |
| THSB70M | 4-3/8" x 1-15/16" | 5/8-18 |
| THSB72M | 4-1/2" x 1-15/16" | 5/8-18 |
| THSB76M | 4-3/4" x 1-15/16" | 5/8-18 |
| THSB80M | 5" x 1-15/16"     | 5/8-18 |
| THSB88M | 5-1/2" x 1-15/16" | 5/8-18 |
| THSB96M | 6" x 1-15/16"     | 5/8-18 |



## HOLE SAW ARBORS

| Part #  | Description               | Fits            |
|---------|---------------------------|-----------------|
| THSA24M | 1/4" Shank Hole Saw Arbor | 9/16" - 1-3/16" |
| THSA34M | 3/8" Shank Hole Saw Arbor | 9/16" - 1-3/16" |
| THSA35M | 3/8" Shank Hole Saw Arbor | 1-1/4" - 6-5/8" |

| Part #   | Description                              | Fits            |
|----------|------------------------------------------|-----------------|
| THSA45QM | 7/16" Shank Hole Saw Arbor Quick Release | 1-1/4" - 6-5/8" |
| THSA35QM | 3/8" Shank Hole Saw Arbor Quick Release  | 1-1/4" - 6-5/8" |



## HOLE SAW PILOTS

| Part #    | Size         | Description                  |
|-----------|--------------|------------------------------|
| THSPD163M | 1/4 X 3-3/32 | Pilot Drills General Purpose |

| Part #     | Size         | Description                                 |
|------------|--------------|---------------------------------------------|
| THSPD163CM | 1/4 X 3-3/32 | Pilot Drills General Purpose Carbide Tipped |



## HOLE SAW KITS

| Part #    | Description                               |
|-----------|-------------------------------------------|
| THSKBI25M | 25 Pc Kit Bi-Metal Hole Saws (Industrial) |
| THSKBI11M | 11 Pc Kit Bi-Metal Hole Saws (Industrial) |
| THSKBI19M | 19 Pc Kit Bi-Metal Hole Saws (Industrial) |

| Part #    | Description                                   |
|-----------|-----------------------------------------------|
| THSKBG8M  | 8 Pc Kit Bi-Metal Hole Saws (General Purpose) |
| THSKBE29M | 29 Pc Kit Bi-Metal Hole Saws (Electrician)    |

## CARBIDE BURRS

**Double Cut:** The most popular burr for ferrous applications. The flutes are ground in both the left and right hand directions, offering better operator control and rapid stock removal in harder materials. The double cut geometry reduces the size of the chips and can be used at slower than normal speeds.

**Aluma Cut:** Designed for used on aluminum, non-ferrous metals, soft steel, reinforced plastics and other soft materials. The burrs are designed with a high flute finish for easy chip flow and fast stock removal and excellent work piece finish.



### SA - CYLINDER SHAPE - NO END CUT

Application: Deburring

#### DOUBLE CUT

| Part #    | Size  | Cut Diameter | Length of Cut | Shank Diameter |
|-----------|-------|--------------|---------------|----------------|
| TBCSA-13V | SA-13 | 5/32         | 5/8           | 1/4            |
| TBCSA-14V | SA-14 | 3/16         | 5/8           | 1/4            |
| TBCSA-51V | SA-51 | 1/4          | 1/2           | 1/8            |
| TBCSA-1V  | SA-1  | 1/4          | 5/8           | 1/4            |
| TBCSA-1LV | SA-1L | 1/4          | 1             | 1/4            |

| Part #   | Size | Cut Diameter | Length of Cut | Shank Diameter |
|----------|------|--------------|---------------|----------------|
| TBCSA-2V | SA-2 | 5/16         | 3/4           | 1/4            |
| TBCSA-3V | SA-3 | 3/8          | 3/4           | 1/4            |
| TBCSA-4V | SA-4 | 7/16         | 1             | 1/4            |
| TBCSA-5V | SA-5 | 1/2          | 1             | 1/4            |

#### ALUMA CUT

| Part #     | Size   | Cut Diameter | Length of Cut | Shank Diameter |
|------------|--------|--------------|---------------|----------------|
| TBCSA-1NFV | SA-1NF | 1/4          | 5/8           | 1/4            |
| TBCSA-3NFV | SA-3NF | 3/8          | 3/4           | 1/4            |

| Part #     | Size   | Cut Diameter | Length of Cut | Shank Diameter |
|------------|--------|--------------|---------------|----------------|
| TBCSA-5NFV | SA-5NF | 1/2          | 1             | 1/4            |



### SB - CYLINDER SHAPE - WITH END CUT

Application: Peripheral Milling & Face Milling

#### DOUBLE CUT

| Part #    | Size  | Cut Diameter | Length of Cut | Shank Diameter |
|-----------|-------|--------------|---------------|----------------|
| TBCSB-51V | SB-51 | 1/4          | 3/16          | 1/8            |
| TBCSB-3V  | SB-3  | 3/8          | 3/4           | 1/4            |

| Part #   | Size | Cut Diameter | Length of Cut | Shank Diameter |
|----------|------|--------------|---------------|----------------|
| TBCSB-5V | SB-5 | 1/2          | 1             | 1/4            |

# CARBIDE BURRS

## SC - CYLINDER SHAPE - RADIUS END

Application: Surface Milling & Contouring



### DOUBLE CUT

| Part #    | Size  | Cut Diameter | Length of Cut | Shank Diameter |
|-----------|-------|--------------|---------------|----------------|
| TBCSC-51V | SC-51 | 1/4          | 1/2           | 1/8            |
| TBCSC-1V  | SC-1  | 1/4          | 5/8           | 1/4            |
| TBCSC-3V  | SC-3L | 3/8          | 3/4           | 1/4            |

| Part #    | Size  | Cut Diameter | Length of Cut | Shank Diameter |
|-----------|-------|--------------|---------------|----------------|
| TBCSC-3LV | SC-3L | 3/8          | 1             | 1/4            |
| TBCSC-5V  | SC-5  | 1/2          | 1             | 1/4            |

### ALUMA CUT

| Part #     | Size   | Cut Diameter | Length of Cut | Shank Diameter |
|------------|--------|--------------|---------------|----------------|
| TBCSC-1NFV | SC-1NF | 1/4          | 5/8           | 1/4            |
| TBCSC-3NFV | SC-3NF | 3/8          | 3/4           | 1/4            |

| Part #     | Size   | Cut Diameter | Length of Cut | Shank Diameter |
|------------|--------|--------------|---------------|----------------|
| TBCSC-5NFV | SC-5NF | 1/2          | 1             | 1/4            |

## SD - BALL SHAPE

Application: Contouring, Hole Deburring, Build-up Welding preparation



### DOUBLE CUT

| Part #    | Size  | Cut Diameter | Length of Cut | Shank Diameter |
|-----------|-------|--------------|---------------|----------------|
| TBCSD-51V | SD-51 | 1/4          | 1/4           | 1/8            |
| TBCSD-1V  | SD-1  | 1/4          | 1/4           | 1/4            |

| Part #   | Size | Cut Diameter | Length of Cut | Shank Diameter |
|----------|------|--------------|---------------|----------------|
| TBCSD-3V | SD-3 | 3/8          | 3/8           | 1/4            |
| TBCSD-5V | SD-5 | 1/2          | 1/2           | 1/4            |

### ALUMA CUT

| Part #     | Size   | Cut Diameter | Length of Cut | Shank Diameter |
|------------|--------|--------------|---------------|----------------|
| TBCSD-1NFV | SD-1NF | 1/4          | 1/4           | 1/4            |
| TBCSD-3NFV | SD-3NF | 3/8          | 3/8           | 1/4            |

| Part #     | Size   | Cut Diameter | Length of Cut | Shank Diameter |
|------------|--------|--------------|---------------|----------------|
| TBCSD-5NFV | SD-5NF | 1/2          | 1/2           | 1/4            |

## SE - OVAL/EGG SHAPE

Application: Contouring

### DOUBLE CUT

| Part #    | Size  | Cut Diameter | Length of Cut | Shank Diameter |
|-----------|-------|--------------|---------------|----------------|
| TBCSE-11V | SE-11 | 3/16         | 5/16          | 1/4            |
| TBCSE-51V | SE-51 | 1/4          | 3/8           | 1/8            |
| TBCSE-1V  | SE-1  | 1/4          | 3/8           | 1/4            |

| Part #   | Size | Cut Diameter | Length of Cut | Shank Diameter |
|----------|------|--------------|---------------|----------------|
| TBCSE-3V | SE-3 | 3/8          | 5/8           | 1/4            |
| TBCSE-5V | SE-5 | 1/2          | 7/8           | 1/4            |

### ALUMA CUT

| Part #     | Size   | Cut Diameter | Length of Cut | Shank Diameter |
|------------|--------|--------------|---------------|----------------|
| TBCSE-3NFV | SE-3NF | 3/8          | 5/8           | 1/4            |

| Part #     | Size   | Cut Diameter | Length of Cut | Shank Diameter |
|------------|--------|--------------|---------------|----------------|
| TBCSE-5NFV | SE-5NF | 1/2          | 7/8           | 1/4            |

## SF - TREE SHAPE RADIUS

Application: Narrow Contours

### DOUBLE CUT

| Part #    | Size  | Cut Diameter | Length of Cut | Shank Diameter |
|-----------|-------|--------------|---------------|----------------|
| TBCSF-53V | SF-53 | 3/16         | 1/2           | 1/8            |
| TBCSF-51V | SF-51 | 1/4          | 1/2           | 1/8            |
| TBCSF-1V  | SF-1  | 1/4          | 5/8           | 1/4            |

| Part #   | Size | Cut Diameter | Length of Cut | Shank Diameter |
|----------|------|--------------|---------------|----------------|
| TBCSF-3V | SF-3 | 3/8          | 3/4           | 1/4            |
| TBCSF-5V | SF-5 | 1/2          | 1             | 1/4            |
| TBCSF-6V | SF-6 | 5/8          | 1             | 1/4            |

### ALUMA CUT

| Part #     | Size   | Cut Diameter | Length of Cut | Shank Diameter |
|------------|--------|--------------|---------------|----------------|
| TBCSF-1NFV | SF-1NF | 1/4          | 5/8           | 1/4            |
| TBCSF-3NFV | SF-3NF | 3/8          | 3/4           | 1/4            |

| Part #     | Size   | Cut Diameter | Length of Cut | Shank Diameter |
|------------|--------|--------------|---------------|----------------|
| TBCSF-5NFV | SF-5NF | 1/2          | 1             | 1/4            |
| TBCSF-6NFV | SF-6NF | 5/8          | 1             | 1/4            |

## SG - POINTED TREE SHAPE

Application: Milling, Acute Angle, Narrow Contouring

### DOUBLE CUT

| Part #    | Size  | Cut Diameter | Length of Cut | Shank Diameter |
|-----------|-------|--------------|---------------|----------------|
| TBCSG-53V | SG-53 | 3/16         | 1/2           | 1/8            |
| TBCSG-51V | SG-51 | 1/4          | 1/2           | 1/8            |
| TBCSG-1V  | SG-1  | 1/4          | 5/8           | 1/4            |

| Part #   | Size | Cut Diameter | Length of Cut | Shank Diameter |
|----------|------|--------------|---------------|----------------|
| TBCSG-3V | SG-3 | 3/8          | 3/4           | 1/4            |
| TBCSG-5V | SG-5 | 1/2          | 1             | 1/4            |



# CARBIDE BURRS

## SL - TAPER SHAPE RADIUS 14° INCLUDED ANGLE

Application: Surface Machining, Narrow Contours and Surfaces

### DOUBLE CUT

| Part #    | Size  | Cut Diameter | Length of Cut | Shank Diameter |
|-----------|-------|--------------|---------------|----------------|
| TBCSL-53V | SL-53 | 3/16         | 1/2           | 1/8            |
| TBCSL-1V  | SL-1  | 1/4          | 5/8           | 1/4            |
| TBCSL-3V  | SL-3  | 3/8          | 1-1/16        | 1/4            |

| Part #   | Size | Cut Diameter | Length of Cut | Shank Diameter |
|----------|------|--------------|---------------|----------------|
| TBCSL-4V | SL-4 | 1/2          | 1-1/8         | 1/4            |
| TBCSL-5V | SL-5 | 5/8          | 1-3/16        | 1/4            |



## ALUMA CUT

| Part #     | Size   | Cut Diameter | Length of Cut | Shank Diameter |
|------------|--------|--------------|---------------|----------------|
| TBCSL-3NFV | SL-3NF | 3/8          | 1-1/16        | 1/4            |

| Part #     | Size   | Cut Diameter | Length of Cut | Shank Diameter |
|------------|--------|--------------|---------------|----------------|
| TBCSL-4NFV | SL-4NF | 1/2          | 1-1/8         | 1/4            |

## SM - POINTED CONE SHAPE

Application: Surface Machining, Narrow Contours

### DOUBLE CUT

| Part #    | Size  | Cut Diameter | Length of Cut | Shank Diameter |
|-----------|-------|--------------|---------------|----------------|
| TBCSM-51V | SM-51 | 1/4          | 1/2           | 1/8            |
| TBCSM-3V  | SM-3  | 1/4          | 1             | 1/4            |

| Part #   | Size | Cut Diameter | Length of Cut | Shank Diameter |
|----------|------|--------------|---------------|----------------|
| TBCSM-4V | SM-4 | 3/8          | 5/8           | 1/4            |
| TBCSM-5V | SM-5 | 1/2          | 7/8           | 1/4            |



## SN - INVERTED CONE SHAPE

Application: Edge Milling, Rear Machining on difficult to reach areas

### DOUBLE CUT

| Part #    | Size  | Cut Diameter | Length of Cut | Shank Diameter |
|-----------|-------|--------------|---------------|----------------|
| TBCSN-51V | SN-51 | 1/4          | 1/4           | 1/8            |
| TBCSN-2V  | SN-2  | 3/8          | 3/8           | 1/4            |

| Part #   | Size | Cut Diameter | Length of Cut | Shank Diameter |
|----------|------|--------------|---------------|----------------|
| TBCSN-4V | SN-4 | 1/4          | 1/4           | 1/8            |



## PREMIUM CARBIDE DOUBLE CUT BURR SETS

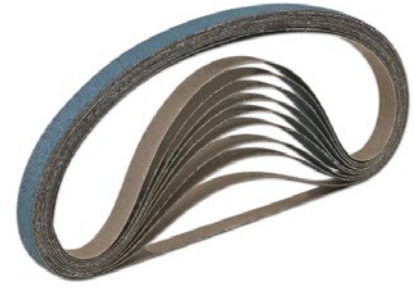
| Part #   | Size              | Description                                          |
|----------|-------------------|------------------------------------------------------|
| TBCSSD9V | Set D Burrs - 9pc | SB-1, SB-3, SB-5, SC-1, SC-3, SC-5, SF-1, SF-3, SF-5 |
| TBCSSE8V | Set E Burrs - 8pc | SA-5, SC-5, SD-5, SE-5, SG-5, SH-5, SK-5, SM-5       |
| TBCSSF8V | Set F Burrs - 8pc | SB-5, SC-5, SD-5, SF-5, SG-5, SH-5, SJ-5, SK-5       |



## ABRASIVES

### ABRASIVE BELTS

Abrasive Belts are available in nearly any size and shape, in 12 to 1000 grit, in aluminum oxide, zirconia, ceramic, and silicone carbide materials, and with all types of backing.



| Part #           | Size         | Material       | Grit | Weight | Backing | Box Qty |
|------------------|--------------|----------------|------|--------|---------|---------|
| TCBA.51360R145   | 1/2 x 13     | Aluminum Oxide | 60   | X      | R145    | 50      |
| TCBA.513320R145  | 1/2 x 13     | Aluminum Oxide | 320  | X      | R145    | 10      |
| TCBA.7520580R192 | 3/4 x 20-1/2 | Aluminum Oxide | 80   | X      | -       | 100     |
| TCB61092         | 1 x 42       | Aluminum Oxide | 60   | X      | A3      | 10      |
| TCB61128         | 2 x 60       | Aluminum Oxide | 60   | X      | A3      | 10      |
| TCB61137         | 2 x 72       | Aluminum Oxide | 80   | X      | A3      | 10      |
| TCBA2.56080R145  | 2-1/2 x 60   | Aluminum Oxide | 80   | X      | R145    | 10      |
| TCB61192         | 3 x 24       | Aluminum Oxide | 40   | X      | A3      | 10      |
| TCB61208         | 3 x 60       | Aluminum Oxide | 80   | X      | A3      | -       |
| TCB61291         | 6 x 48       | Aluminum Oxide | 36   | X      | A3      | 10      |
| TCB61295         | 6 x 48       | Aluminum Oxide | 80   | X      | A3      | 10      |
| TCB61299         | 6 x 48       | Aluminum Oxide | 180  | X      | A3      | 10      |
| TCB61527         | 1/2 x 18     | Zirconia       | 50   | X      | Z3      | 200     |
| TCB61528         | 1/2 x 18     | Zirconia       | 60   | X      | Z3      | 200     |
| TCB61529         | 1/2 x 18     | Zirconia       | 80   | X      | Z3      | 200     |
| TCB61545         | 3/4 x 18     | Zirconia       | 50   | X      | Z3      | 10      |
| TCB61546         | 3/4 x 18     | Zirconia       | 60   | X      | Z3      | 10      |
| TCB61547         | 3/4 x 18     | Zirconia       | 80   | X      | Z3      | 10      |
| TCB61580         | 2 x 48       | Zirconia       | 40   | X      | Z3      | 10      |
| TCB61582         | 2 x 48       | Zirconia       | 60   | X      | Z3      | 10      |
| TCBZ2.56036R205  | 2-1/2 x 60   | Zirconia       | 36   | X      | R205    | 10      |
| TCBZ2.56040R205  | 2-1/2 x 60   | Zirconia       | 40   | X      | R205    | 10      |
| TCBZ2.56050R205  | 2-1/2 x 60   | Zirconia       | 50   | X      | R205    | 10      |
| TCB61604         | 3 x 90       | Zirconia       | 40   | X      | Z3      | 10      |
| TCBZ42440PZ628   | 4 x 24       | Zirconia       | 40   | X      | PZ628   | 10      |
| TCBZ46040R205    | 4 x 60       | Zirconia       | 40   | X      | R205    | 10      |
| TCB61634         | 6 x 48       | Zirconia       | 40   | X      | Z3      | 10      |
| TCB61636         | 6 x 48       | Zirconia       | 60   | X      | Z3      | 10      |
| TCBC1124836PS999 | 1-1/2 x 48   | Ceramic        | 36   | Y      | PS999   | 10      |
| TCBC24836PS999   | 2 x 48       | Ceramic        | 36   | Y      | PS999   | 10      |
| TCBC2.56036      | 2-1/2 x 60   | Ceramic        | 36   | Y      | PS999   | 10      |
| TCBC2.56050      | 2-1/2 x 60   | Ceramic        | 50   | Y      | PS999   | 10      |

CUT-OFF WHEELS

CUT-OFF WHEELS

DIE GRINDER • CUT-OFF WHEELS • ALUMINUM OXIDE • MADE IN USA

Aluminum Oxide for cutting steel.

| Part #   | Size (OD x Thickness x Arbor) | Specs    | RPM   | Box Qty |
|----------|-------------------------------|----------|-------|---------|
| TCC35501 | 3 x 1/32 x 3/8                | A60-R-BF | 23900 | 50      |
| TCC35502 | 3 x 1/16 x 1/4                | A60-R-BF | 23900 | 50      |
| TCC35503 | 3 x 1/16 x 3/8                | A60-R-BF | 23900 | 50      |



DIE GRINDER • CUT-OFF WHEELS • ZIRCONIA ALUMINUM OXIDE • MADE IN USA

ZA: Zirconia Aluminum Oxide – Metal, steel and stainless. Longer lasting life and easy cutting action.

| Part #   | Size (OD x Thickness x Arbor) | Specs     | RPM   | Box Qty |
|----------|-------------------------------|-----------|-------|---------|
| TCC36173 | 3 x 1/16 x 1/4                | ZA36-T-BF | 25000 | 50      |
| TCC36174 | 3 x 1/16 x 3/8                | ZA36-T-BF | 25000 | 50      |
| TCC36175 | 3 x 1/32 x 1/4                | ZA36-T-BF | 25000 | 50      |
| TCC36176 | 3 x 1/32 x 3/8                | ZA60-T-BF | 25000 | 50      |
| TCC36178 | 4 x 1/16 x 3/8                | ZA36-T-BF | 19100 | 50      |
| TCC36180 | 4 x 1/32 x 3/8                | ZA60-T-BF | 19100 | 50      |



Please Note: It is extremely important to use the cut-off wheel designed for your saw. Using the incorrect wheel can result in serious injury or death!

**DIE GRINDER • CUT-OFF WHEELS • CERAMIC • MADE IN USA**

Premium Ceramic grain with grinding aid designed to provide free cutting and longer life. Applications include Steel, Stainless Steel, Aluminum.



| Part #   | Size (OD x Thickness x Arbor) | Specs  | Material | RPM   | Box Qty |
|----------|-------------------------------|--------|----------|-------|---------|
| TCC36181 | 3 x 1/32 x 3/8                | CER60R | Ceramic  | 25000 | 50      |
| TCC36182 | 3 x 1/16 x 3/8                | CER36R | Ceramic  | 25000 | 50      |
| TCC36183 | 4 x 1/32 x 3/8                | CER60R | Ceramic  | 19100 | 50      |

**CHOP SAW • CUT-OFF WHEELS • ALUMINUM OXIDE**

Aluminum Oxide – Metal & Steel. 14" double (DR) fiberglass reinforced. Fast Cut: Economical choice for metal, steel and general applications.



| Part #   | Size (OD x Thickness x Arbor) | Specs    | RPM  | Box Qty |
|----------|-------------------------------|----------|------|---------|
| TCC35576 | 14 x 3/32 x 1                 | A36-P-BF | 4400 | 10      |

**CHOP SAW • CUT-OFF WHEELS • ANGLE IRON/HEAVY BARS • ALUMINUM OXIDE**

ZA: Zirconia Aluminum Oxide for steel and stainless. High performance cutting, recommended on thicker stock applications such as angle iron, angle bars.



| Part #   | Size (OD x Thickness x Arbor) | Specs     | RPM  | Box Qty |
|----------|-------------------------------|-----------|------|---------|
| TCC36125 | 14 x 3/32 x 1                 | ZA24-S-BF | 4400 | 10      |

## CUT-OFF WHEELS

### STATIONARY SAW ▪ CUT-OFF WHEELS ▪ ALUMINUM OXIDE

Stationary saw cut-off wheels cut structural steel, bar stock, tubing and non-ferrous metals. A: Aluminum Oxide - Metal & Steel. Economical choice for metal, steel and general applications.



| Part #   | Size (OD x Thickness x Arbor) | Specs    | RPM  | Box Qty |
|----------|-------------------------------|----------|------|---------|
| TCC35582 | 14 x 1/8 x 1                  | A24-R-BF | 4400 | 10      |

### HIGH SPEED GAS SAW ▪ CUT-OFF WHEELS ▪ ALUMINUM OXIDE

A24R: Aluminum Oxide - Metal & Steel, Stainless. General purpose. 14" are available in both double and triple reinforced.



| Part #   | Size (OD x Thickness x Arbor) | Specs    | Reinforced | RPM  | Box Qty |
|----------|-------------------------------|----------|------------|------|---------|
| TCC35587 | 12 x 5/32 x 20mm              | A24-R-BF | Triple     | 6400 | 10      |
| TCC35599 | 14 x 5/32 x 20mm              | A24-R-BF | Triple     | 5500 | 10      |
| TCC35600 | 14 x 5/32 x 1                 | A24-R-BF | Triple     | 5500 | 10      |

### METAL & STEEL ▪ CUT-OFF WHEELS ▪ TYPE 1

ZA60-TB-Flex: Flexible wheel design for fast cutting and easy work penetration. ZA-36-T-Rigid: Thicker (.045), rigid wheel design for fast cutting and longer life. A60-T: Maximum cutting speeds with minimal burrs. Provides excellent finish with reduced vibration.



| Part #   | Size (OD x Thickness x Arbor) | Specs        | RPM   | Box Qty |
|----------|-------------------------------|--------------|-------|---------|
| TCC45010 | 4-1/2 x 0.035 x 7/8           | ZA60-TB-Flex | 13300 | 25      |
| TCC35514 | 4-1/2 x 0.045 x 7/8           | ZA36-T-Rigid | 13300 | 25      |
| TCC35516 | 5 x 0.045 x 7/8               | ZA36-T-Rigid | 12250 | 25      |
| TCC35517 | 6 x 0.045 x 7/8               | ZA36-T-Rigid | 10200 | 25      |
| TCC45012 | 6 x 0.04 x 7/8                | ZA60-TB-Flex | 10200 | 25      |
| TCC35518 | 7 x 1/16 x 7/8                | ZA36-T-Rigid | 12250 | 25      |

## METAL &amp; STEEL • CUT-OFF WHEELS • TYPE 27

ZA60-S: Zirconia and Aluminum Oxide mixture. General purpose wheel. Zirconia grain allows for faster cutting and longer life. Excellent on Steel/Stainless. A60-T: Maximum cutting speeds with minimal burrs. Provides excellent finish with reduced vibration.



| Part #   | Size (OD x Thickness x Arbor) | Specs    | RPM   | Box Qty |
|----------|-------------------------------|----------|-------|---------|
| TCC45002 | 4-1/2 x 0.045 x 7/8           | ZA60-S   | 13300 | 25      |
| TCC45103 | 4-1/2 x 0.045 x 7/8           | A60-T    | 13300 | 50      |
| TCC45141 | 4-1/2 x 0.045 x 5/8-11        | ZA60-SBF | 13300 | 10      |
| TCC45143 | 6 x 0.045 x 5/8-11            | ZA60-SBF | 10200 | 10      |
| TCC45008 | 7 x 1/16 x 7/8                | ZA60-S   | 8500  | 25      |

## METAL &amp; STEEL • CUT-OFF WHEELS • EXTREME CUT

CER36-TBF: Extremely Fast Cutting - high performance sharp CERAMIC grain. Advanced bonding system - specially engineered to provide long life and fast cut. Can be used on steel and stainless steel.



| Part #   | Size (OD x Thickness x Arbor) | Specs     | Type | RPM   | Box Qty |
|----------|-------------------------------|-----------|------|-------|---------|
| TCC54283 | 4-1/2 x 0.045 x 7/8           | CER36-TBF | 27   | 13300 | 25      |
| TCC54285 | 5 x 0.045 x 7/8               | CER36-TBF | 27   | 12250 | 25      |
| TCC54287 | 6 x 0.045 x 7/8               | CER36-TBF | 27   | 10200 | 25      |
| TCC54288 | 6 x 0.045 x 5/8-11            | CER36-TBF | 27   | 10200 | 10      |

## ALUMINUM • CUT-OFF WHEELS

Premium Aluminum Oxide grain and A46-N-grade bond engineered for superior non-loading cutting action. Clean steady cuts. Minimal burrs. Suitable for aluminum cutting and non-ferrous metals.



| Part #   | Size (OD x Thickness x Arbor) | Specs   | Type | RPM   | Box Qty |
|----------|-------------------------------|---------|------|-------|---------|
| TCC45004 | 4-1/2 x 0.045 x 7/8           | A46-NBF | 27   | 13300 | 25      |
| TCC53255 | 4-1/2 x 0.045 x 7/8           | A46-NBF | 1    | 13300 | 25      |
| TCC70114 | 5 x 0.045 x 7/8               | A46-NBF | 27   | 12200 | 25      |
| TCC70115 | 6 x 0.045 x 7/8               | A46-NBF | 27   | 10200 | 25      |

Applications: Aluminum, copper and bronze fabrication, sheet and plate work.



## CUT-OFF WHEELS, GRINDING WHEELS

### STAINLESS STEEL ▪ CUT-OFF WHEELS ▪ TYPE 1

WA60-T: Higher percentage of patented, specially treated white aluminum oxide grain and premium fiberglass. Provides up to 10% more cuts better finish, reduces burning and produces fewer burrs.



| Part #   | Size (OD x Thickness x Arbor) | Specs        | RPM   | Box Qty |
|----------|-------------------------------|--------------|-------|---------|
| TCC35515 | 4-1/2 x 0.045 x 7/8           | WA36-T-Rigid | 13300 | 25      |
| TCC53260 | 9 x 1/16 x 7/8                | WA36-T-BF    | 6600  | 25      |

## GRINDING WHEELS

### ECONOMY GRINDING WHEELS ▪ TYPE 27

A24N Fast Cut: Aluminum Oxide Grain. Soft N-grade bond for fast stock removal. Excellent ratio of stock removal/wheel loss. Economical choice for metal and low-grade stainless. A24R Fast Cut: Aluminum Oxide Grain. Economical choice for fast metal grinding. Premium Grain.



| Part #   | Size (OD x Thickness x Arbor) | Specs | RPM   | Box Qty |
|----------|-------------------------------|-------|-------|---------|
| TCG35622 | 4-1/2 x 1/4 x 7/8             | A24N  | 13300 | 25      |
| TCG35627 | 5 x 1/4 x 7/8                 | A24N  | 12250 | 25      |
| TCG35642 | 7 x 1/4 x 7/8                 | A24N  | 8600  | 25      |
| TCG36262 | 7 x 1/4 x 5/8-11              | A24R  | 8600  | 10      |
| TCG35657 | 9 x 1/4 x 5/8-11              | A24N  | 6600  | 10      |

### ULTRA GRINDING WHEELS ▪ TYPE 27

A24R: Aluminum Oxide Grain. #1 selling 1/4" Depressed Center Grinding Wheel. R-grade bond for longer life and excellent stock removal. ZA24T: Zirconia Aluminum Oxide Grain is sharper, cuts faster, and lasts longer than aluminum oxide grain. T-grade bond for fast cutting and longer life. Recommended for steel, cast iron, and stainless steel.



### ALUMINUM OXIDE

| Part #   | Size (OD x Thickness x Arbor) | Specs | RPM   | Box Qty | Part #   | Size (OD x Thickness x Arbor) | Specs | RPM   | Box Qty |
|----------|-------------------------------|-------|-------|---------|----------|-------------------------------|-------|-------|---------|
| TCG35620 | 4-1/2 x 1/4 x 7/8             | A24R  | 13300 | 25      | TCG35626 | 5 x 1/4 x 7/8                 | A24R  | 12250 | 25      |
| TCG35621 | 4-1/2 x 1/4 x 5/8-11          | A24R  | 13300 | 10      |          |                               |       |       |         |

## ZIRCONIA

| Part #   | Size (OD x Thickness x Arbor) | Specs | RPM   | Box Qty | Part #   | Size (OD x Thickness x Arbor) | Specs | RPM  | Box Qty |
|----------|-------------------------------|-------|-------|---------|----------|-------------------------------|-------|------|---------|
| TCG35624 | 4-1/2 x 1/4 x 7/8             | ZA24T | 13300 | 25      | TCG35645 | 7 x 1/4 x 5/8-11              | ZA24T | 8600 | 10      |
| TCG35625 | 4-1/2 x 1/4 x 5/8-11          | ZA24T | 13300 | 10      |          |                               |       |      |         |

## GREEN GRINDING WHEELS • TYPE 27

Zirconia Premium grain allows for high performance grinding action. Faster metal removal than aluminum oxide wheels. Use on: stainless steel, steel, hard face, titanium, inconel, aluminum.



## ZIRCONIA

| Part #   | Size (OD x Thickness x Arbor) | Specs   | RPM   | Box Qty | Part #   | Size (OD x Thickness x Arbor) | Specs   | RPM  | Box Qty |
|----------|-------------------------------|---------|-------|---------|----------|-------------------------------|---------|------|---------|
| TCG49543 | 4-1/2 x 5/32 x 7/8            | 36 Grit | 13300 | 25      | TCG49547 | 7 x 5/32 (4mm) x 7/8          | 36 Grit | 8500 | 25      |

## CERAMIC

| Part #   | Size (OD x Thickness x Arbor) | Specs      | RPM   | Box Qty |
|----------|-------------------------------|------------|-------|---------|
| TCG49750 | 4-1/2 x 1/8 x 7/8             | ASL-36P-BF | 13300 | 25      |

## ALUMINUM GRINDING WHEELS • WITH GRINDING AID

Premium AO Grain - Aluminum A30N. 1/4" (.25 Thick) Type 27 grinding wheels for aluminum guaranteed to outperform competitor wheels. Soft N-grade bond for weld removal. Recommended for aluminum, copper, zinc, and other non-ferrous materials.



| Part #   | Size (OD x Thickness x Arbor) | Specs | RPM   | Box Qty |
|----------|-------------------------------|-------|-------|---------|
| TCG36107 | 4-1/2 x 1/4 x 7/8             | A30N  | 13300 | 25      |
| TCG36108 | 4-1/2 x 1/4 x 5/8-11          | A30N  | 13300 | 10      |



## EZ STRIP WHEELS

### EZ STRIP WHEELS

#### RED EZ STRIP WHEELS

Non woven wheels for cleaning welds and fast removal of rust, scaling, oxidation, paints, sealants, and other clogging materials. EZ strip wheels can be used on stainless steel, steel, aluminum, titanium, non-ferrous metals, fiber glass, stone and wood. Red EZ strip wheels are more rigid for faster working on angled and irregular surfaces.



| Part #   | Size (OD x Arbor) | RPM   | Box Qty | Part #   | Size (OD x Arbor) | RPM  | Box Qty |
|----------|-------------------|-------|---------|----------|-------------------|------|---------|
| TCE59204 | 4-1/2 x 7/8       | 11000 | 10      | TCE59208 | 5 x 7/8           | 9800 | 10      |
| TCE59205 | 4-1/2 x 5/8-11    | 11000 | 10      | TCE59209 | 5 x 5/8-11        | 9800 | 10      |

#### RED EZ STRIP WHEELS • ROLL ON

Roll-on attachment for easy attachment. Red EZ strip wheels are more rigid for faster working on angled and irregular surfaces.

| Part #   | Size (OD x Arbor) | RPM   | Box Qty |
|----------|-------------------|-------|---------|
| TCE59060 | 2 x 1/2           | 10500 | 10      |



## FLAP DISCS

## EXTREME II • US MADE • PREMIUM FLAP DISCS

The sharpest flap disc on the market. Precision Shaped Grain (PSG) stays sharper longer for more productivity. The result is a cooler, faster & more durable cut.



| Part #   | Size (OD x Arbor) | Grit | Type  | RPM   | Box Qty |
|----------|-------------------|------|-------|-------|---------|
| TCF42840 | 4-1/2 x 7/8       | 36   | 27    | 13300 | 10      |
| TCF42841 | 4-1/2 x 7/8       | 40   | 27    | 13300 | 10      |
| TCF42842 | 4-1/2 x 7/8       | 60   | 27    | 13300 | 10      |
| TCF42843 | 4-1/2 x 7/8       | 80   | 27    | 13300 | 10      |
| TCF42851 | 4-1/2 x 7/8       | 40   | 29    | 13300 | 10      |
| TCF42852 | 4-1/2 x 7/8       | 60   | 29    | 13300 | 10      |
| TCF42853 | 4-1/2 x 7/8       | 80   | 29    | 13300 | 10      |
| TCF42861 | 4-1/2 x 7/8       | 40   | 27 XL | 13300 | 10      |
| TCF42862 | 4-1/2 x 7/8       | 60   | 27 XL | 13300 | 10      |
| TCF42872 | 4-1/2 x 7/8       | 60   | 29 XL | 13300 | 10      |
| TCF43840 | 4-1/2 x 5/8-11    | 36   | 27    | 13300 | 10      |
| TCF43841 | 4-1/2 x 5/8-11    | 40   | 27    | 13300 | 10      |
| TCF43842 | 4-1/2 x 5/8-11    | 60   | 27    | 13300 | 10      |
| TCF43843 | 4-1/2 x 5/8-11    | 80   | 27    | 13300 | 10      |
| TCF43851 | 4-1/2 x 5/8-11    | 40   | 29    | 13300 | 10      |
| TCF43852 | 4-1/2 x 5/8-11    | 60   | 29    | 13300 | 10      |
| TCF43853 | 4-1/2 x 5/8-11    | 80   | 29    | 13300 | 10      |

# FLAP DISCS

## PREMIUM Z3 • US MADE • FLAP DISCS

Fastest grain removal in the marketplace for carbon based steels (26% more than the competition) and second best after CGW Z-Stainless discs on stainless steels, while offering excellent life. Recommended for aggressive use and heavy duty applications. Active grinding agent provides cool cutting with light pressure. XL provides more material and longer disc life.



| Part #   | Size (OD x Arbor) | Grit | Type | RPM   | Box Qty |
|----------|-------------------|------|------|-------|---------|
| TCF42103 | 4 x 5/8           | 40   | 27   | 15300 | 10      |
| TCF42301 | 4-1/2 x 7/8       | 36   | 27   | 13300 | 10      |
| TCF42302 | 4-1/2 x 7/8       | 40   | 27   | 13300 | 10      |
| TCF42304 | 4-1/2 x 7/8       | 60   | 27   | 13300 | 10      |
| TCF42305 | 4-1/2 x 7/8       | 80   | 27   | 13300 | 10      |
| TCF42306 | 4-1/2 x 7/8       | 120  | 27   | 13300 | 10      |
| TCF42312 | 4-1/2 x 5/8-11    | 40   | 27   | 13300 | 10      |
| TCF42314 | 4-1/2 x 5/8-11    | 60   | 27   | 13300 | 10      |
| TCF42315 | 4-1/2 x 5/8-11    | 80   | 27   | 13300 | 10      |
| TCF42321 | 4-1/2 x 7/8       | 36   | 29   | 13300 | 10      |
| TCF42322 | 4-1/2 x 7/8       | 40   | 29   | 13300 | 10      |
| TCF42324 | 4-1/2 x 7/8       | 60   | 29   | 13300 | 10      |
| TCF42325 | 4-1/2 x 7/8       | 80   | 29   | 13300 | 10      |
| TCF42326 | 4-1/2 x 7/8       | 120  | 29   | 13300 | 10      |
| TCF42331 | 4-1/2 x 5/8-11    | 36   | 29   | 13300 | 10      |
| TCF42334 | 4-1/2 x 5/8-11    | 60   | 29   | 13300 | 10      |
| TCF42335 | 4-1/2 x 5/8-11    | 80   | 29   | 13300 | 10      |
| TCF42364 | 4-1/2 x 7/8       | 60   | 29XL | 13300 | 10      |
| TCF42341 | 4-1/2 x 7/8       | 36   | 27XL | 13300 | 10      |
| TCF42342 | 4-1/2 x 7/8       | 40   | 27XL | 13300 | 10      |
| TCF42344 | 4-1/2 x 7/8       | 60   | 27XL | 13300 | 10      |
| TCF42345 | 4-1/2 x 7/8       | 80   | 27XL | 13300 | 10      |
| TCF42346 | 4-1/2 x 7/8       | 120  | 27XL | 13300 | 10      |
| TCF42352 | 4-1/2 x 5/8-11    | 40   | 27XL | 13300 | 10      |
| TCF42542 | 5 x 7/8           | 40   | 27XL | 12200 | 10      |
| TCF42522 | 5 x 7/8           | 40   | 29   | 12200 | 10      |
| TCF53022 | 6 x 7/8           | 40   | 29   | 10200 | 10      |
| TCF42722 | 7 x 7/8           | 40   | 29   | 8600  | 10      |
| TCF42732 | 7 x 5/8-11        | 40   | 29   | 8600  | 10      |
| TCF42735 | 7 x 5/8-11        | 80   | 29   | 8600  | 10      |
| TCF42711 | 7 x 5/8-11        | 36   | 27   | 8600  | 10      |
| TCF42712 | 7 x 5/8-11        | 40   | 27   | 8600  | 10      |

## US MADE • Z-PC ECONOMY FLAP DISCS

Quality zirconia grain with a poly/cotton heat treated backing. The poly/cotton backing provides low stretch and strength. For steel and stainless steel.



| Part #   | Size (OD x Arbor) | Grit | Type | Thickness | RPM   | Box Qty |
|----------|-------------------|------|------|-----------|-------|---------|
| TCF41702 | 4-1/2 x 7/8       | 40   | 27   | REGULAR   | 13300 | 10      |
| TCF41704 | 4-1/2 x 7/8       | 60   | 27   | REGULAR   | 13300 | 10      |
| TCF41724 | 4-1/2 x 7/8       | 60   | 29   | REGULAR   | 13300 | 10      |
| TCF41971 | 7 x 5/8-11        | 36   | 29   | REGULAR   | 8600  | 10      |

## US MADE • C3 FLAP DISCS

Self-sharpening high performance ceramic grain with a grinding aid for fast, aggressive cutting action. Ceramic flap discs are designed to last longer than zirconia flap discs. Ceramic grain provides Contaminant-Free results; stainless steel will not rust. For steel and stainless and other heat sensitive materials.



| Part #   | Size (OD x Arbor) | Grit | Type | RPM   | Box Qty |
|----------|-------------------|------|------|-------|---------|
| TCF42402 | 4-1/2 x 7/8       | 40   | 27   | 13300 | 10      |
| TCF42405 | 4-1/2 x 7/8       | 80   | 27   | 13300 | 10      |
| TCF42442 | 4-1/2 x 7/8       | 40   | 27XL | 13300 | 10      |
| TCF42444 | 4-1/2 x 7/8       | 60   | 27XL | 13300 | 10      |

## PREMIUM • US MADE • Z3 TRIMMABLE • COMPACT FLAP DISCS

Time is Money. Trimming the backing allows for more of the disc to be used for fewer disc changes and better production rates. Easy Trimming. Simply angle the backing edge against a hard metal to expose more flap material. Easier Heavy Duty Jobs. Stiff backing construction paired with a compacted 4 degree flap angle make grinding easier, quieter and with less vibration.



| Part #   | Size (OD x Arbor) | Grit | Type    | Thickness | RPM   | Box Qty |
|----------|-------------------|------|---------|-----------|-------|---------|
| TCF30142 | 4-1/2 x 5/8-11    | 40   | Compact | REGULAR   | 13300 | 10      |
| TCF30144 | 4-1/2 x 5/8-11    | 60   | Compact | REGULAR   | 13300 | 10      |

FLAP DISCS



PREMIUM • US MADE • ALUMINUM • FLAP DISCS

Best disc for Aluminum! Calcium Stearate coating liquefies under heat keeping material cooler and preventing loading. 36 grit is best for rough grinding, heavy stock removal or weld removal. 60 grit is best for deburring, cleaning, finish prep

| Part #   | Size (OD x Arbor) | Grit | Type | RPM   | Box Qty |
|----------|-------------------|------|------|-------|---------|
| TCF43081 | 4-1/2 x 7/8       | 36   | 27   | 13300 | 10      |
| TCF43084 | 4-1/2 x 7/8       | 60   | 27   | 13300 | 10      |
| TCF43101 | 4-1/2 x 7/8       | 36   | 29   | 13300 | 10      |
| TCF43104 | 4-1/2 x 7/8       | 60   | 29   | 13300 | 10      |
| TCF43094 | 4-1/2 x 5/8-11    | 60   | 27   | 13300 | 10      |
| TCF43111 | 4-1/2 x 5/8-11    | 36   | 29   | 13300 | 10      |
| TCF43184 | 5 x 7/8           | 60   | 29   | 12200 | 10      |
| TCF43251 | 7 x 5/8-11        | 36   | 27   | 8600  | 10      |
| TCF43261 | 7 x 7/8           | 36   | 29   | 8600  | 10      |



US MADE • Z-STAINLESS • FLAP DISCS

Premium blend of Zirconia and Aluminum Oxide grains with grinding aid on a polyester backing. Excels on stainless steel applications. Grinding aid lubricates the grains for easier break down. Designed for heat sensitive applications.

| Part #   | Size (OD x Arbor) | Type | Grit | RPM   | Box Qty |
|----------|-------------------|------|------|-------|---------|
| TCF31135 | 4 1/2 x 7/8       | T29  | 80   | 13300 | 10      |
| TCF31205 | 4 1/2 x 5/8-11    | T29  | 80   | 13300 | 10      |

## FLAP WHEELS

## ALUMINUM OXIDE - FIRM FLAP WHEELS

Firm, quality aluminum oxide coated abrasive material. The flaps, arranged like a fan around the shaft of the tool, provide for consistent cutting action, maximum performance and long life. Use on all ferrous and non-ferrous materials, stainless steel, iron, brass, aluminum, plastic, fiberglass, wood and glass. Excellent for working in small, difficult to reach places. CGW flap wheels have more flaps compared to leading flap wheel manufacturers.



| Part #    | Size (OD x Thickness x Arbor) | Grit | RPM   | Box Qty |
|-----------|-------------------------------|------|-------|---------|
| TCFW37100 | 3/4 X 3/4 X 1/4               | 120  | 30000 | 10      |
| TCFW37105 | 3/4 X 3/4 X 1/4               | 320  | 30000 | 10      |
| TCFW39907 | 1 X 1 X 1/4                   | 40   | 30000 | 10      |
| TCFW39908 | 1 X 1 X 1/4                   | 60   | 30000 | 10      |
| TCFW39909 | 1 X 1 X 1/4                   | 80   | 30000 | 10      |
| TCFW39910 | 1 X 1 X 1/4                   | 120  | 30000 | 10      |
| TCFW39914 | 1 X 1 X 1/4                   | 320  | 30000 | 10      |
| TCFW39916 | 1-1/2 X 1/2 X 1/4             | 80   | 25000 | 10      |
| TCFW39920 | 1 1/2 X 1 X 1/4               | 40   | 25000 | 10      |
| TCFW39921 | 1 1/2 X 1 X 1/4               | 60   | 25000 | 10      |
| TCFW39922 | 1 1/2 X 1 X 1/4               | 80   | 25000 | 10      |
| TCFW39923 | 1 1/2 X 1 X 1/4               | 120  | 25000 | 10      |
| TCFW39934 | 2 X 1 X 1/4                   | 120  | 25000 | 10      |
| TCFW39937 | 2 X 1 X 1/4                   | 320  | 25000 | 10      |
| TCFW39943 | 2 1/2 X 1 X 1/4               | 120  | 20000 | 10      |
| TCFW41511 | 2 1/2 X 1 X 1/4               | 320  | 20000 | 10      |
| TCFW41515 | 3 X 1 1/2 X 1/4               | 120  | 20000 | 10      |
| TCFW41518 | 3 X 1 1/2 X 1/4               | 320  | 20000 | 10      |
| TCFW41630 | 1 1/2 X 1 X 1/4               | 320  | 25000 | 10      |

## FLAP WHEELS, QUICK CHANGE DISCS

### ALUMINUM OXIDE • FLEX FLAP WHEELS

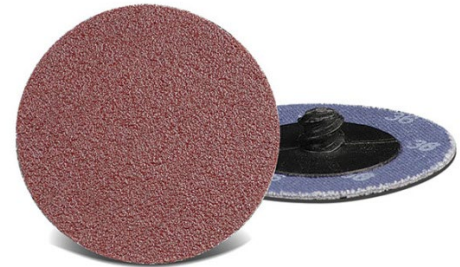
Premium quality AO flap wheel made with a flexible x-wt. cotton backing for faster cut rate vs. traditional AO flap wheels. Flexible, yet strong flaps for easy working on hard-to-reach places. Fast and cool cutting action. Use on ferrous and non-ferrous metals



| Part #    | Size (OD x Thickness x Arbor) | Grit | RPM   | Box Qty |
|-----------|-------------------------------|------|-------|---------|
| TCFW71000 | 3/4 X 3/4 X 1/4               | 60   | 30000 | 10      |
| TCFW71034 | 1 X 1 X 1/4                   | 60   | 30000 | 10      |
| TCFW71035 | 1 X 1 X 1/4                   | 80   | 30000 | 10      |
| TCFW71036 | 1 X 1 X 1/4                   | 120  | 30000 | 10      |
| TCFW71040 | 1-1/2 X 1 X 1/4               | 40   | 25000 | 10      |
| TCFW71042 | 1-1/2 X 1 X 1/4               | 80   | 25000 | 10      |

### QUICK CHANGE DISCS

Strong 2-ply design for flat or contoured work.



### Subsection Description

| Part #   | Size | Material       | Grit | Style   | Box Qty |
|----------|------|----------------|------|---------|---------|
| TCQ59528 | 2    | Aluminum Oxide | 60   | Roll On | 50      |
| TCQ59565 | 2    | Zirconia       | 36   | Roll On | 50      |
| TCQ59591 | 2    | Zirconia       | 60   | Roll On | 50      |
| TCQ59913 | 2    | Ceramic        | 50   | Roll On | 50      |
| TCQ59916 | 2    | Ceramic        | 100  | Roll On | 50      |
| TCQ59635 | 2    | Aluminum Oxide | 40   | Turn On | 50      |
| TCQ59637 | 2    | Aluminum Oxide | 60   | Turn On | 50      |
| TCQ59638 | 2    | Aluminum Oxide | 80   | Turn On | 50      |
| TCQ59537 | 3    | Aluminum Oxide | 36   | Roll On | 25      |
| TCQ59541 | 3    | Aluminum Oxide | 80   | Roll On | 25      |
| TCQ59570 | 3    | Zirconia       | 36   | Roll On | 25      |
| TCQ59572 | 3    | Zirconia       | 50   | Roll On | 25      |
| TCQ59573 | 3    | Zirconia       | 60   | Roll On | 25      |
| TCQ59921 | 3    | Ceramic        | 36   | Roll On | 25      |
| TCQ59927 | 3    | Ceramic        | 120  | Roll On | 25      |
| TCQ59961 | 3    | Ceramic        | 36   | Turn On | 25      |



## ROLL ON MINI FLAP DISCS

Z3(r) Premium Zirconia alumina grain with a poly/cotton backing. Active grinding agent provides cool cutting with only light pressure. Mini flap discs are designed to access tight areas and reduce heat build-up.



| Part #   | Size | Grit | Type | Material | Box Qty |
|----------|------|------|------|----------|---------|
| TCF30004 | 2    | 60   | 27   | Zirconia | 10      |
| TCF30014 | 3    | 60   | 27   | Zirconia | 10      |
| TCF30042 | 3    | 36   | 27   | Ceramic  | 10      |



## ROLL ON RUBBER HOLDER PADS

| Part #    | Size (OD x Shank) | Type    | Box Qty | Part #    | Size (OD x Shank) | Type    | Box Qty |
|-----------|-------------------|---------|---------|-----------|-------------------|---------|---------|
| TCRH59732 | 2 x 1/4           | Roll On | 5       | TCRH59731 | 1-1/2 x 1/4       | Turn On | 5       |
| TCRH59734 | 3 x 1/4           | Roll On | 5       | TCRH59735 | 3 x 1/4           | Turn On | 5       |

## RESIN FIBRE DISCS

### ALUMINUM OXIDE • RESIN FIBRE DISCS

A premium quality AO disc designed for long life, high stock removal and cool cutting action on metal and welds. Sharp, heat-treated and blue fired AO grain electrostatically coated to a heavy duty vulcanized fibre backing with heat resistant phenolic resins. Fast, cool cutting performance.



| Part #   | Size (OD x Arbor) | Grit | RPM   | Box Qty |
|----------|-------------------|------|-------|---------|
| TCR48012 | 4-1/2 x 7/8       | 36   | 13300 | 25      |
| TCR48014 | 4-1/2 x 7/8       | 50   | 13300 | 25      |



## RESIN FIBRE DISCS

### ZIRCONIA • RESIN FIBRE DISCS

High concentration of Zirconia and heat-treated Aluminum Oxide grain provides twice the cutting action of premium AO discs and is extremely heat resistant. The special fracturing characteristics of the Zirconia grain provide a consistent action throughout the disc's life. High performance on blending welds, stainless steel, inconel, titanium and tool steel.



| Part #   | Size (OD x Arbor) | Grit | RPM   | Box Qty |
|----------|-------------------|------|-------|---------|
| TCR48101 | 4 1/2 x 7/8       | 24   | 13300 | 25      |
| TCR48112 | 5 x 7/8           | 36   | 12200 | 25      |
| TCR48114 | 5 x 7/8           | 50   | 12200 | 25      |
| TCR48122 | 7 x 7/8           | 36   | 8600  | 25      |
| TCR48124 | 7 x 7/8           | 50   | 8600  | 25      |

### CERAMIC • RESIN FIBRE DISCS

Premium ceramic grain is extremely hard and self-sharpens during operation. Grinding aid keeps the disc cool while grinding hard materials and aluminum.



| Part #   | Size (OD x Arbor) | Grit | RPM   | Box Qty |
|----------|-------------------|------|-------|---------|
| TCR48882 | 4-1/2 x 5/8-11    | 36   | 13300 | 25      |
| TCR48184 | 4 1/2 x 7/8       | 50   | 13300 | 25      |
| TCR48186 | 4 1/2 x 7/8       | 80   | 13300 | 25      |
| TCR48192 | 5 x 7/8           | 36   | 12200 | 25      |
| TCR48204 | 7 x 7/8           | 50   | 8600  | 25      |
| TCR48205 | 7 x 7/8           | 60   | 8600  | 25      |
| TCR48206 | 7 x 7/8           | 80   | 8600  | 25      |

### CERAMIC 2 • RESIN FIBRE DISCS

Premium Ceramic grain is extremely hard and self-sharpens during operation. Ceramic grain breaks down with less pressure than Zirconia discs without heat damage. Improved grain technology allows for higher stock removal rates and longer product life. Advanced grinding aid for cool cutting technology that reduces heat and increases performance. Suitable for high pressure grinding applications.



| Part #   | Size (OD x Arbor) | Grit | RPM   | Box Qty |
|----------|-------------------|------|-------|---------|
| TCR59806 | 5 x 7/8           | 36   | 12200 | 25      |
| TCR59807 | 5 x 7/8           | 60   | 12200 | 25      |
| TCR59809 | 7 x 7/8           | 24   | 12200 | 25      |
| TCR59812 | 7 x 7/8           | 80   | 12200 | 25      |

# RESIN FIBRE DISCS, PREMIUM SURFACE CONDITIONING HAND PADS, BUFFING

## RUBBER FIBER DISCS BACK-UP PADS

Rubber Back-up Pads - Use with coarse grits. Spiral ribs provide contact points and form channels for air flow, extending disc life 30% to 50%. Larger air holes provide cooler operating area and longer abrasive disc life.



| Part #    | Size (OD x Arbor) | Specs  | Part #    | Size (OD x Arbor) | Specs  |
|-----------|-------------------|--------|-----------|-------------------|--------|
| TCBP48220 | 4-1/2 x 5/8-11    | Medium | TCBP48221 | 5 x 5/8-11        | Medium |

## PREMIUM SURFACE CONDITIONING HAND PADS

Strong, yet flexible premium pad construction for surface preparation.



### Subsection Description

| Part #    | Color | Specs      | Box Qty | Part #    | Color  | Specs           | Box Qty |
|-----------|-------|------------|---------|-----------|--------|-----------------|---------|
| TCSC71151 | Black | Heavy Duty | 20      | TCSC36284 | Green  | General Purpose | 20      |
| TCSC36283 | Grey  | Ultra Fine | 20      | TCSC36287 | Maroon | All Purpose     | 20      |

## BUFFING

### FELT/WOOL DISCS - BUFFING • TYPE 27

Stainless steel, aluminum, sheet metal mild steel and brass. Flexible felt/wool disc easily works with contoured surfaces for consistent polishing action. Cool working action without burning. Designed for smooth polishing action, 100% virgin wool.



| Part #    | Size | Type         | System of Measurement | Material | Box Qty |
|-----------|------|--------------|-----------------------|----------|---------|
| TCSC49698 | 27   | Buffing Disc | US                    | Steel    | 10      |

## BUFFING

### BUFFING COMPOUND

Compounds will not discolor metals. White SS51 (1,200 grit) compound helps buff aluminum, steel, stainless and natural stone to the desired finish without adding scratches. High gloss finish. Green C-3 (2,000 grit) premium buffing compound works on aluminum, steel and stainless steels and eliminates drag lines while still achieving the desired finish and maximum luster.



| Part #    | Specs      | Grit | Color | Part #    | Specs     | Grit | Color |
|-----------|------------|------|-------|-----------|-----------|------|-------|
| TCSC49652 | White SS51 | 1200 | White | TCSC49653 | Green C-3 | 2000 | Green |



### SCOTCH-BRITE ROLOC BRISTLE DISCS

| Part #          | Size (OD x Shank) | Grit | RPM   | Material               | Box Qty |
|-----------------|-------------------|------|-------|------------------------|---------|
| TO4050480118734 | 3 x 5/8           | 50   | 15000 | Ceramic Abrasive Grain | 10      |

### INTERLEAF FLAP DISCS

Grind and finish with one disc – save time and money. Stainless steel finishing, light grinding, deburring. Alternating flaps of non-woven and coated abrasive materials provide uniform, consistent finishes with very little heat. Top size aluminum oxide poly cotton material for cool, yet fast cutting action for long life. European made non-woven material for non-smearing high grade finishes. Three grit levels of discs for a variety of work including stainless steel, aluminum, brass, steel sheet metal. Please operate at 3,000 RPM for optimal performance



| Part #    | Size (OD x Arbor) | Grit      | Type | Box Qty |
|-----------|-------------------|-----------|------|---------|
| TCSC49687 | 4-1/2 x 7/8       | Medium    | T29  | 10      |
| TCSC49688 | 4-1/2 x 7/8       | Very Fine | T29  | 10      |

## SURFACE CONDITIONING

## SURFACE CONDITIONING FLAP DISCS

Premium surface conditioning material for surface preparation. Three different grits for blending, deburring, and cleaning. For steel and stainless steel. Operate at 3,000 RPM for optimal performance.



| Part #    | Size (OD x Arbor) | Type | Grit      | RPM   | Box Qty |
|-----------|-------------------|------|-----------|-------|---------|
| TCSC70120 | 4-1/2 x 7/8       | T29  | Coarse    | 13300 | 10      |
| TCSC70122 | 4-1/2 x 7/8       | T29  | Medium    | 13300 | 10      |
| TCSC70124 | 4-1/2 x 7/8       | T29  | Very Fine | 13300 | 10      |

## PREMIUM SURFACE CONDITIONING QUICK CHANGE DISCS

For stainless steel, and ferrous & non-ferrous metals. Premium - Blending and rust/burr removal.



| Part #    | Size | Type    | Spec/Color       | RPM   | Box Qty |
|-----------|------|---------|------------------|-------|---------|
| TCSC59503 | 2    | Roll-On | Coarse - Brown   | 25000 | 50      |
| TCSC59504 | 2    | Roll-On | Medium - Maroon  | 25000 | 50      |
| TCSC59505 | 2    | Roll-On | Very Fine - Blue | 25000 | 50      |
| TCSC59506 | 3    | Roll-On | Coarse - Brown   | 20000 | 25      |
| TCSC59507 | 3    | Roll-On | Medium - Maroon  | 20000 | 25      |
| TCSC59615 | 3    | Turn-On | Medium - Maroon  | 20000 | 25      |
| TCSC59508 | 3    | Roll-On | Very Fine - Blue | 20000 | 25      |

## HEAVY DUTY SURFACE CONDITIONING QUICK CHANGE DISCS - ROLL-ON

For stainless steel, and ferrous & non-ferrous metals. Heavy Duty - Aggressive surface conditioning discs for tough cleaning, deburring and finishing. 2X longer working life than standard discs.



| Part #    | Size | Spec/Color      | RPM   | Box Qty |
|-----------|------|-----------------|-------|---------|
| TCSC59740 | 2    | Medium - Maroon | 25000 | 50      |

## SURFACE CONDITIONING, FINISHING

### FINISH PRO SURFACE CONDITIONING QUICK CHANGE DISCS ▪ ROLL-ON

For stainless steel, and ferrous & non-ferrous metals. Finish Pro - Economy choice, high performance design for demanding cleaning, deburring and finishing.



| Part #    | Size | Spec/Color      | RPM   | Box Qty |
|-----------|------|-----------------|-------|---------|
| TCSC59743 | 2    | Coarse - Brown  | 25000 | 50      |
| TCSC59744 | 2    | Medium - Maroon | 25000 | 50      |
| TCSC59746 | 3    | Coarse - Brown  | 20000 | 25      |
| TCSC59747 | 3    | Medium - Maroon | 20000 | 25      |

## FINISHING

### FINISHING DISCS ▪ HOOK & LOOP

Impregnated with abrasive grain for fast material removal. Designed for long working life and resists loading. Use on steel, stainless steel, aluminum, titanium and alloys, fiber glass, plastic and glass fiber.



| Part #    | Size  | Spec                        | RPM   | Box Qty |
|-----------|-------|-----------------------------|-------|---------|
| TCSC70009 | 4-1/2 | Ultra Fine - Gray           | 12000 | 10      |
| TCSC70022 | 7     | Heavy Duty - Brown - Coarse | 6000  | 10      |
| TCSC70023 | 7     | Coarse - Brown              | 6000  | 10      |
| TCSC70024 | 7     | Medium - Maroon             | 6000  | 10      |
| TCSC70025 | 7     | Very Fine - Blue            | 6000  | 10      |



### FINISHING DISCS WITH ARBOR HOLE ▪ HOOK & LOOP

| Part #    | Size (OD x Arbor) | Spec              | RPM   | Use with Pad | Box Qty |
|-----------|-------------------|-------------------|-------|--------------|---------|
| TCSC70030 | 4-1/2 x 7/8       | Medium - Maroon   | 12000 | 48224        | 10      |
| TCSC70031 | 4-1/2 x 7/8       | Ultra Fine - Gray | 12000 | 48224        | 10      |



## SANDING

## GOLD • C WEIGHT • PAPER DISCS W/MYLAR

THE PASCO ADVANTAGE: Made with a strong .0005 Mylar film for superior edge tear resistance. The PASCO Advantage outperforms other “C” weight gold discs. Stearated paper with heat treated aluminum oxide grain and a full phenolic bond system provides uniform scratch pattern. Open coat disc delivers fast cut and exceptionally long life.



## DWT &amp; DOR PSA

| Part #    | Size | Grit | Style | Box Qty | Part #    | Size | Grit | Style | Box Qty |
|-----------|------|------|-------|---------|-----------|------|------|-------|---------|
| TCSD49762 | 5    | 80   | DOR   | 100     | TCSD49794 | 5    | 120  | DWT   | 100     |
| TCSD49767 | 5    | 220  | DOR   | 100     | TCSD49795 | 5    | 150  | DWT   | 100     |
| TCSD49777 | 6    | 80   | DOR   | 100     | TCSD49796 | 5    | 180  | DWT   | 100     |
| TCSD49781 | 6    | 180  | DOR   | 100     | TCSD49803 | 5    | 600  | DWT   | 100     |
| TCSD49782 | 6    | 220  | DOR   | 100     | TCSD49816 | 6    | 400  | DWT   | 100     |
| TCSD49792 | 5    | 80   | DWT   | 100     |           |      |      |       |         |

## HOOK &amp; LOOP

| Part #    | Size | Grit | Style  | Box Qty | Part #    | Size | Grit | Style | Box Qty |
|-----------|------|------|--------|---------|-----------|------|------|-------|---------|
| TCSD49927 | 5    | 80   | No Vac | 100     | TCSD49986 | 5    | 60   | 8VAC  | 50      |
| TCSD49931 | 5    | 180  | No Vac | 100     | TCSD49988 | 5    | 100  | 8VAC  | 100     |
| TCSD49932 | 5    | 220  | No Vac | 100     | TCSD49990 | 5    | 150  | 8VAC  | 100     |
| TCSD49935 | 5    | 320  | No Vac | 100     | TCSD49992 | 5    | 220  | 8VAC  | 100     |

## FOAM HOOK &amp; LOOP BACKING PAD

4" pad with internal 5/8-11 threads. 1/4" foam for medium stiffness and maximum grip for hook and loop discs.

| Part #    | Size (OD x Arbor) |
|-----------|-------------------|
| TCBP49533 | 4-1/2 x 5/8-11    |





Q711T DWT FILM SANDING DISCS

Aluminum Oxide, 3 Mill Film Back, Open Coat. Film is the best choice for dry and wet sanding applications. Film backing - fast, consistent finish, longer life. Strong, yet pliable .003 Mylar backing. Film offers up to 4X the life vs. paper discs.

| Part #    | Size | Grit | Style | Box Qty |
|-----------|------|------|-------|---------|
| TCSD51051 | 5    | 80   | DWT   | 100     |
| TCSD51052 | 5    | 100  | DWT   | 100     |
| TCSD51053 | 5    | 120  | DWT   | 100     |
| TCSD51054 | 5    | 150  | DWT   | 100     |
| TCSD51060 | 5    | 400  | DWT   | 100     |
| TCSD51063 | 5    | 800  | DWT   | 100     |
| TCSD51065 | 5    | 1200 | DWT   | 100     |



J WEIGHT - CLOTH BACKED DISCS

Tough, durable “J” wgt. 65/35% polyester/cotton cloth is an outstanding product for the right applications and is worth the higher cost of cloth disc compared to paper. Applications: wood sanding, mold sanding, contour sanding, breaking edges.

| Part #    | Size | Grit | Style | Box Qty |
|-----------|------|------|-------|---------|
| TCSD51657 | 5    | 60   | DWT   | 50      |
| TCSD51658 | 5    | 80   | DWT   | 50      |

## SHOP ROLLS

## PREMIUM - ALUMINUM OXIDE

Premium shop roll backing is more flexible for longer working life. High quality friable grain. Material is easily torn to the length and/or shape needed. For multiple types of work including cleaning, deburring and polishing.



| Part #    | Size          | Grit | Discount Qty | Part #    | Size          | Grit | Discount Qty |
|-----------|---------------|------|--------------|-----------|---------------|------|--------------|
| TCSR63062 | 1 x 50 yd     | 60   | 10           | TCSR63075 | 1-1/2 x 50 yd | 120  | 10           |
| TCSR63063 | 1 x 50 yd     | 80   | 10           | TCSR63077 | 1-1/2 x 50 yd | 180  | 10           |
| TCSR63064 | 1 x 50 yd     | 100  | 10           | TCSR63078 | 1-1/2 x 50 yd | 220  | 10           |
| TCSR63065 | 1 x 50 yd     | 120  | 10           | TCSR63079 | 1-1/2 x 50 yd | 40   | 10           |
| TCSR63066 | 1 x 50 yd     | 150  | 10           | TCSR63080 | 1-1/2 x 50 yd | 320  | 10           |
| TCSR63067 | 1 x 50 yd     | 180  | 10           | TCSR63083 | 2 x 50 yd     | 80   | 10           |
| TCSR63068 | 1 x 50 yd     | 220  | 10           | TCSR63085 | 2 x 50 yd     | 120  | 10           |
| TCSR63070 | 1 x 50 yd     | 320  | 10           | TCSR63087 | 2 x 50 yd     | 180  | 10           |
| TCSR63071 | 1 x 50 yd     | 400  | 10           | TCSR63098 | 2 x 50 yd     | 40   | 10           |
| TCSR63073 | 1-1/2 x 50 yd | 80   | 10           |           |               |      |              |

## EMERY

## EMERY IMPREGNATED POLISHING WHEEL

Ideal for general polishing of most ferrous metals, stones, glass and ceramics. Use it to remove small burrs and scratch marks left by grinding and sanding. Ideal to clean and define grooves. Emery impregnated disc is ideal for cleaning and polishing coarse surfaces.

| Part #     | Description |
|------------|-------------|
| TO11442502 | 1" OD, 2 PK |



## EMERY SCREEN

Emery Screen is mainly used in hand metalworking. It is used in fitting work and to clean up corrosion, etc. Screen has an advantage over cloth since it does not hold the sanded particles in during sanding.

| Part #   | Size          | Grit | Part #   | Size          | Grit |
|----------|---------------|------|----------|---------------|------|
| EQEC120S | 1-1/2 x 25 yd | 120  | EQEC180S | 1-1/2 x 25 yd | 180  |





WIRE BRUSHES

WIRE BRUSHES

MADE IN USA • CUP BRUSHES

Wire brushes made from oil tempered wire.



KNOTTED

| Part #   | Spec                        | Wire Size | Arbor  | RPM   | Part #   | Spec                    | Wire Size | Arbor  | RPM  |
|----------|-----------------------------|-----------|--------|-------|----------|-------------------------|-----------|--------|------|
| TCW60060 | 2-3/4" Knotted Carbon Steel | .014      | 5/8-11 | 14000 | TCW60104 | 4" Knotted Carbon Steel | .020      | 5/8-11 | 6600 |

CRIMPED

| Part #   | Spec                           | Wire Size | Arbor  | RPM   | Part #   | Spec                    | Wire Size | Arbor  | RPM  |
|----------|--------------------------------|-----------|--------|-------|----------|-------------------------|-----------|--------|------|
| TCW60125 | 2-3/4" Crimped Stainless Steel | .014      | 5/8-11 | 14000 | TCW60110 | 4" Crimped Carbon Steel | .020      | 5/8-11 | 9000 |

MADE IN USA • END BRUSHES

Wire brushes made from oil tempered wire. Designed for tight work spaces and higher brushing speeds (up to 22,000 RPM).



KNOTTED

| Part #   | Spec                              | Wire Size | Shank | RPM   | Part #   | Spec                                 | Wire Size | Shank | RPM   |
|----------|-----------------------------------|-----------|-------|-------|----------|--------------------------------------|-----------|-------|-------|
| TCW60131 | 1" Knotted End Brush Carbon Steel | .020      | 1/4   | 22000 | TCW60132 | 1" Knotted End Brush Stainless Steel | .020      | 1/4   | 22000 |

CRIMPED

| Part #   | Size                                | Wire Size | Shank | RPM   | Part #  | Size                       | Wire Size | Shank | RPM   |
|----------|-------------------------------------|-----------|-------|-------|---------|----------------------------|-----------|-------|-------|
| TCW60140 | 3/4" Crimped End Brush Carbon Steel | .014      | 1/4   | 22000 | TCWB001 | 1" Crimped End Brush Brass | .005      | 1/4   | 20000 |
| TCW60141 | 1" Crimped End Brush Carbon Steel   | .020      | 1/4   | 22000 |         |                            |           |       |       |

## MADE IN USA • WHEEL BRUSHES

Wire brushes made from oil tempered wire.

## KNOTTED

| Part #   | Spec                                     | Wire Size | Arbor  | RPM   |
|----------|------------------------------------------|-----------|--------|-------|
| TCW60012 | 4" Knot Wire Carbon Steel Standard Twist | .020      | 5/8-11 | 20000 |
| TCW60053 | 6" Knot Wire Carbon Steel Standard Twist | .025      | 5/8-11 | 9000  |

| Part #      | Spec          | Wire Size | Arbor   | RPM   |
|-------------|---------------|-----------|---------|-------|
| TO80408044* | 4" Twist Knot | .014      | 1/2-3/8 | 20000 |

\*Weiler wheel



## CRIMPED

| Part #   | Size                                       | Wire Size | Arbor/Shank | RPM   |
|----------|--------------------------------------------|-----------|-------------|-------|
| TCW60160 | 1 1/2" Crimped Radial Concave Carbon Steel | 0.012     | 1/4         | 20000 |
| TCW60161 | 2 1/2" Crimped Radial Concave Carbon Steel | 0.014     | 1/4         | 20000 |
| TCW60170 | 2" Crimped Carbon Steel                    | 0.014     | 1/4         | 25000 |
| TCW60162 | 3" Crimped Radial Concave Carbon Steel     | 0.014     | 1/4         | 20000 |

| Part #   | Size                    | Wire Size | Arbor/Shank | RPM   |
|----------|-------------------------|-----------|-------------|-------|
| TCW60171 | 3" Crimped Carbon Steel | 0.014     | 1/4         | 25000 |
| TCW60172 | 3" Crimped Carbon Steel | 0.014     | 1/4         | 25000 |
| TCW60150 | 4" Crimped Carbon Steel | 0.014     | 5/8-11      | 15000 |
| TCW60180 | 8" Crimped Carbon Steel | 0.014     | 1-1/4       | 4500  |
| TCW60190 | 6" Crimped Carbon Steel | 0.014     | 1/4         | 6000  |

## STAINLESS STEEL SCRATCH BRUSHES

Designed with kiln-dried hardwood handles for maximum tuft retention and high-quality, staple set wire for long life.

| Part #   | Spec | Packaging Qty |
|----------|------|---------------|
| TCW60202 | 3x19 | 12            |

| Part #   | Spec | Packaging Qty |
|----------|------|---------------|
| TCW60211 | 3x7  | 36            |



## WIRE BRUSHES

### ECONOMY WHEEL BRUSHES

Wire brushes made from oil tempered wire.

#### KNOTTED

| Part #   | Spec                                   | Wire Size | Arbor  | RPM   | Part #   | Spec                                  | Wire Size | Arbor  | RPM   |
|----------|----------------------------------------|-----------|--------|-------|----------|---------------------------------------|-----------|--------|-------|
| TCW60502 | 4" Knotted Standard Twist Carbon Steel | .020      | 5/8-11 | 20000 | TCW60523 | 6" Knotted Stringer Bead Carbon Steel | .020      | 5/8-11 | 12000 |
| TCW60515 | 4" Knotted Cable Twist Stainless Steel | .020      | 5/8-11 | 20000 |          |                                       |           |        |       |

#### CRIMPED

| Part #   | Size                    | Wire Size | Arbor  | RPM   | Part #   | Size                       | Wire Size | Arbor  | RPM   |
|----------|-------------------------|-----------|--------|-------|----------|----------------------------|-----------|--------|-------|
| TCW60650 | 4" Crimped Carbon Steel | 0.014     | 5/8-11 | 15000 | TCW60651 | 4" Crimped Stainless Steel | 0.014     | 5/8-11 | 15000 |

### ECONOMY CUP BRUSHES

Wire brushes made from oil tempered wire.

#### KNOTTED

| Part #   | Spec                        | Wire Size | Arbor  | RPM   | Part #   | Spec                    | Wire Size | Arbor  | RPM  |
|----------|-----------------------------|-----------|--------|-------|----------|-------------------------|-----------|--------|------|
| TCW60535 | 2 3/4" Knotted Carbon Steel | .014      | 5/8-11 | 12500 | TCW60539 | 4" Knotted Carbon Steel | .020      | 5/8-11 | 8500 |
| TCW60537 | 2 3/4" Knotted Carbon Steel | .020      | 5/8-11 | 12500 |          |                         |           |        |      |

#### CRIMPED

| Part #   | Spec                    | Wire Size | Arbor  | RPM   |
|----------|-------------------------|-----------|--------|-------|
| TCW60560 | 3" Crimped Carbon Steel | .012      | 5/8-11 | 12500 |

### ECONOMY END BRUSHES

Wire brushes made from oil tempered wire. Designed for tight work spaces and higher brushing speeds (up to 22,000 RPM).

#### KNOTTED

| Part #   | Size                    | Wire Size | Shank | RPM   |
|----------|-------------------------|-----------|-------|-------|
| TCW60580 | 1" Knotted Carbon Steel | .020      | 1/4   | 20000 |



## TENRYU SAW BLADES

## STEEL-PRO® SERIES

Steel Pro® Saw Blades cut ferrous metals more quickly, cleanly, and easily. The tips are made of specially formulated C-6 grade carbide. They make fast, clean, and cool cuts that leave the work piece edge free of burrs. They outlast abrasive discs by up to 30 times, cut up to 10 times faster, eliminate dust, and reduce sparks.



| Part #   | Tenryu Part # | Diameter | Teeth | Arbor  |
|----------|---------------|----------|-------|--------|
| TTSP0725 | PRF-18538BW   | 7-1/4"   | 38    | 5/8 KO |
| TTSP12   | PRF-30560D    | 12"      | 60    | 1      |
| TTSP14   | PRF-35572D    | 14"      | 72    | 1      |

## STEEL-PRO® STABILIZER SERIES

Steel Pro® Stabilizer Saw Blades provide all the benefits of standard Steel Pro® blades while also eliminating the need for blade plate stabilizers. They cut straighter, have a longer cutting life, and reduce the scattering of steel debris.



| Part #  | Tenryu Part # | Diameter | Teeth | Arbor  |
|---------|---------------|----------|-------|--------|
| TTS0725 | PRF-18536BWK  | 7-1/4"   | 36    | 5/8 KO |
| TTS08   | PRF-20348BWK  | 8"       | 48    | 5/8 KO |
| TTS14   | PRF-35572DK   | 14"      | 72    | 1      |

## HEAVY METAL SERIES

Heavy Metal Saw Blades are for ferrous metal. They provide affordability, quick cutting, and long cut life.



| Part #       | Tenryu Part # | Diameter | Teeth | Arbor |
|--------------|---------------|----------|-------|-------|
| TTSP07252036 | HM-18036D     | 7"       | 36    | 20 mm |
| TTHM12       | HM-30554DX    | 12"      | 54    | 1     |
| TTHM14       | HM-35566DX    | 14"      | 66    | 1     |

# TENRYU SAW BLADES

## ALUMI-CUT SERIES

Alumi-Cut Saw Blades are for cutting non-ferrous materials. They provide excellent results in aluminum, copper, brass, and bronze. The bodies are fully hardened, expertly tensioned, tool steel for true and accurate cuts.



| Part #   | Tenryu Part # | Diameter | Teeth | Arbor  |
|----------|---------------|----------|-------|--------|
| TTA725   | AC-18560D     | 7-1/4"   | 60    | 5/8 KO |
| TTA85    | AC-21660DN    | 8-1/2"   | 60    | 5/8 KO |
| TTA10    | AC-25580DN    | 10"      | 80    | 5/8    |
| TTA10100 | AC-255100DN   | 10"      | 100   | 5/8    |
| TTA1256  | IA-30556DN    | 12"      | 56    | 1      |
| TTA1280  | AC-30580DN    | 12"      | 80    | 1      |
| TTA12    | AC-305100DN   | 12"      | 100   | 1      |
| TTA14    | AC-355100DN   | 14"      | 100   | 1      |

## TSD • CUTOFF BLADES • DIAMOND ABRASIVE

Quickly cuts cast iron, fiberglass, FRP, etc.



| Part # | Tenryu Part # | Diameter | Arbor | Application       |
|--------|---------------|----------|-------|-------------------|
| TTSD07 | TSD-180D      | 7"       | 5/8   | For Circular Saws |
| TTSD12 | TSD-305D      | 12"      | 1     | For Gas Saws      |

## CORD-FREE SERIES

Cord-Free Saw Blades for ferrous Metal feature thin-kerf, and user-friendly designed with select C6 carbide for easy and safe use. Cord-Free Saw Blades for Wood feature ultra-thin, perfectly tensioned steel plates for true run and to save battery life. The teeth are precision honed, high grade carbide for easy, smooth cuts and long life.



| Part #     | Tenryu Part # | Diameter | Teeth | Arbor | Application            |
|------------|---------------|----------|-------|-------|------------------------|
| TTCFA06560 | CF-16560A     | 6-1/2"   | 60    | 5/8   | Aluminum               |
| TTCFS06548 | CF-16548M     | 6-1/2"   | 48    | 5/8   | Steel                  |
| TTCFW06524 | CF-16524W     | 6-1/2"   | 24    | 5/8   | Wood - General Purpose |
| TTCFW06540 | CF-16540W     | 6-1/2"   | 40    | 5/8   | Wood - Finished        |



## SILENCER SERIES FOR WOOD

| Part #     | Tenryu Part # | Diameter | Teeth | Arbor |
|------------|---------------|----------|-------|-------|
| TTSL25572  | SL-25572      | 10"      | 72    | 5/8   |
| TTSL305100 | SL-305100     | 12"      | 100   | 1     |

## POWER TOOL SERIES

Power Tool Saw Blades for Miter Saws are wood cutting blades which feature a thin kerf design which is easier on miter saw motors and brakes. They have fully hardened, expertly tensioned tool steel bodies and fine grain tungsten carbide tips with fine honing for keen edges.



| Part #     | Tenryu Part # | Diameter | Teeth | Arbor  |
|------------|---------------|----------|-------|--------|
| TTPT072524 | PT-18524AM    | 7-1/4"   | 24    | 5/8 KO |
| TTPT012    | PT-30580      | 12"      | 80    | 1      |

Don't see the saw blade you are looking for? Tenryu stocks nearly any type and size of circular blade.



# METAL BI-METAL BANDSAW BLADES

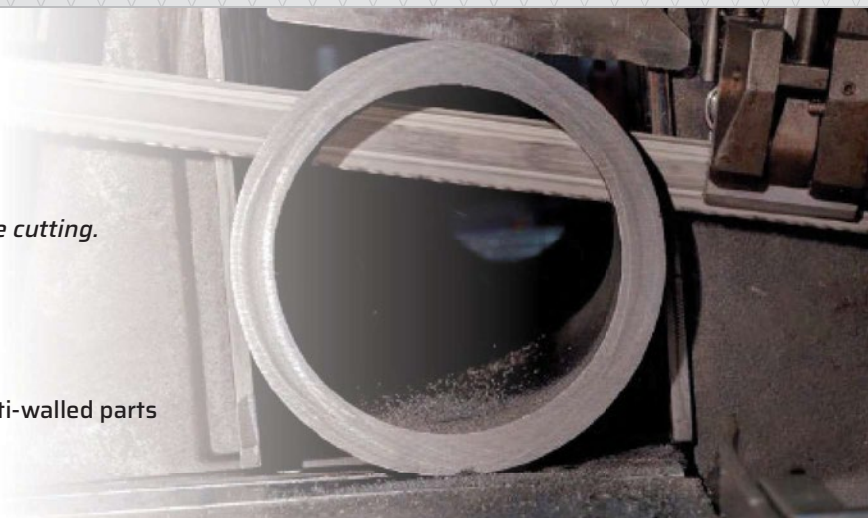


## STRUCTURAL CUTTING

*For general purpose structural, interrupted, and bundle cutting.*

### Features:

- Long life and straight cuts in structural material
- Designed to absorb repeated impact when cutting multi-walled parts
- Reduced noise and vibration
- Reduced chance of stripping teeth



| Width x Thickness |           | TPI                            |     |     |     |      |
|-------------------|-----------|--------------------------------|-----|-----|-----|------|
| in                | mm        | 2/3                            | 3/4 | 4/6 | 5/7 | 8/11 |
|                   |           | Variable Pitch - Positive Rake |     |     |     |      |
| ½ x .025          | 13 x 0.64 |                                |     |     |     | ▼    |
| ¾ x .035          | 19 x 0.90 |                                |     |     | ▼   | ▼    |
| 1 x .035          | 27 x 0.90 |                                | ▼   | ▼   | ▼   | ▼    |
| 1¼ x .042         | 34 x 1.10 |                                | ▼ ▼ | ▼ ▼ | ▼   | ▼    |
| 1½ x .050         | 41 x 1.30 | ▼                              | ▼ ▼ | ▼ ▼ | ▼   | ▼    |
| 2 x .063          | 54 x 1.60 | ▼ ▼                            | ▼ ▼ | ▼ ▼ |     |      |
| 2½ x .063         | 67 x 1.60 | ▼ ▼                            | ▼ ▼ | ▼   |     |      |

▼ Wide Kerf

### Users:

- Production facilities
- Tool shops
- Metal service centers
- Steel structure fabricators
- Fabrication

### Applications:

- Bundle cuts
- Interrupted cuts
- I-Beams
- Low alloy steels
- Carbon Steel (A36)
- Free Machining Steel
- Non-Ferrous Alloys



*American-owned since 1963*



## PRODUCTION & MRO

For general production in a variety of materials.

### Features:

- Versatile to cut a variety of materials
- Reduced vibration and harmonics

- **Variable Pitch - Positive Rake:** General purpose blade for cutting solids.

| Width x Thickness |           | TPI                            |     |     |     |
|-------------------|-----------|--------------------------------|-----|-----|-----|
| in                | mm        | 2/3                            | 3/4 | 4/6 | 5/7 |
|                   |           | Variable Pitch - Positive Rake |     |     |     |
| ¾ x .035          | 19 x 0.90 |                                |     | ▼   |     |
| 1 x .035          | 27 x 0.90 | ▼                              | ▼ ▼ | ▼ ▼ | ▼   |
| 1¼ x .042         | 34 x 1.10 | ▼                              | ▼ ▼ | ▼ ▼ | ▼   |
| 1½ x .050         | 41 x 1.30 | ▼                              | ▼ ▼ | ▼ ▼ |     |
| 2 x .050          | 54 x 1.30 |                                | ▼   |     |     |
| 2 x .063          | 54 x 1.60 | ▼                              | ▼   |     |     |

▼ Available with 6° rake angle

- **Variable Pitch - 0° Rake:** For structural and occasional thin-walled material solids.

| Width x Thickness |           | TPI                      |     |     |      |      |       |
|-------------------|-----------|--------------------------|-----|-----|------|------|-------|
| in                | mm        | 3/4                      | 4/6 | 5/8 | 6/10 | 8/12 | 10/14 |
|                   |           | Variable Pitch - 0° Rake |     |     |      |      |       |
| ½ x .025          | 13 x 0.64 |                          |     |     |      | ▼    |       |
| ½ x .035          | 13 x 0.90 |                          |     |     |      |      | ▼     |
| ¾ x .035          | 19 x 0.90 |                          | ▼   | ▼   | ▼    | ▼    | ▼     |
| 1 x .035          | 27 x 0.90 | ▼                        | ▼   | ▼   | ▼    | ▼    | ▼     |
| 1¼ x .042         | 34 x 1.10 | ▼                        | ▼   | ▼   |      | ▼    |       |
| 1½ x .050         | 41 x 1.30 | ▼                        | ▼   | ▼   |      |      |       |

### Straight Pitch

- **Raker:** For hand-fed applications in wood. • **Hook:** For aluminum applications.

| Width x Thickness |           | TPI  |   |   |
|-------------------|-----------|------|---|---|
| in                | mm        | 14   | 2 | 4 |
|                   |           | Hook |   |   |
| ¾ x .035          | 9 x 0.90  |      |   | ▼ |
| ½ x .035          | 13 x 0.90 | ▼    |   | ▼ |
| 1 x .035          | 27 x 0.90 |      | ▼ |   |



### Users:

- Production facilities
- Tool shops
- Fabrication
- Maintenance shops
- Specialty shops

### Applications:

- Solids
- Heavy walled structures
- Carbon steels
- Alloy steels
- Some stainless steels
- Light-to-medium production machines

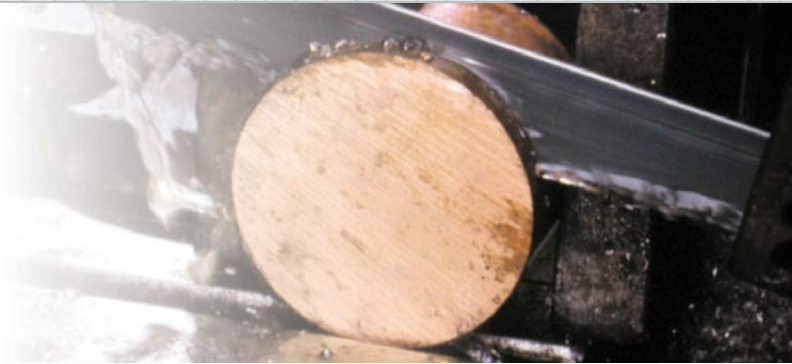


# METAL BI-METAL BANDSAW BLADES

## MATRIX II

### PRODUCTION & MRO

Economic blades for cutting materials with easy to moderate machinability.



#### Features:

- **Variable Pitch – Positive Rake:** General purpose blade for cutting solids.

| Width x Thickness |           | TPI                            |     |
|-------------------|-----------|--------------------------------|-----|
| in                | mm        | 3/4                            | 4/6 |
|                   |           | Variable Pitch – Positive Rake |     |
| ¾ x .035          | 19 x 0.90 | ▼                              | ▼   |
| 1 x .035          | 27 x 0.90 | ▼                              | ▼   |
| 1¼ x .042         | 34 x 1.10 |                                | ▼   |

#### Users:

- Maintenance and fabricating shops

#### Applications:

- Carbon steels
- Structural steels – A36, single piece, bundles, stacked pieces, interrupted cuts (pipe, tubing, angle and channel, small and medium saw machines)

- **Variable Pitch – 0° Rake:** For structural and thin-walled material solids.

| Width x Thickness |           | TPI                      |     |      |      |      |       |       |       |
|-------------------|-----------|--------------------------|-----|------|------|------|-------|-------|-------|
| in                | mm        | 4/6                      | 5/8 | 6/10 | 8/11 | 8/12 | 10/14 | 12/16 | 14/18 |
|                   |           | Variable Pitch – 0° Rake |     |      |      |      |       |       |       |
| ½ x .020          | 13 x 0.50 |                          |     |      | ▼    |      | ▼     | ▼     | ▼     |
| ½ x .025          | 13 x 0.64 |                          |     | ▼    |      | ▼    | ▼     |       | ▼     |
| ½ x .035          | 13 x 0.90 |                          |     |      |      |      | ▼     |       |       |
| ¾ x .035          | 19 x 0.90 |                          |     | ▼    |      | ▼    | ▼     |       |       |
| 1 x .035          | 27 x 0.90 | ▼                        | ▼   | ▼    |      | ▼    | ▼     |       |       |
| 1¼ x .042         | 34 x 1.10 |                          | ▼   | ▼    |      |      |       |       |       |

#### Straight Pitch

- **Raker:** For interrupted cutting with better surface finish in aluminum and other non-ferrous materials.
- **Wavy:** For thin sections including sheets, tubes, pipes, and small shapes.
- **Hook:** For faster cutting in aluminum and other non-ferrous materials.

| Width x Thickness |           | TPI   |   |    |    |    |      |    |    |      |   |
|-------------------|-----------|-------|---|----|----|----|------|----|----|------|---|
| in                | mm        | 6     | 8 | 10 | 14 | 18 | 14   | 18 | 24 | 3    | 4 |
|                   |           | Raker |   |    |    |    | Wavy |    |    | Hook |   |
| ½ x .020          | 13 x 0.50 |       |   | ▼  |    | ▼  | ▼    | ▼  | ▼  |      |   |
| ½ x .025          | 13 x 0.64 | ▼     |   |    | ▼  | ▼  |      |    |    | ▼    | ▼ |
| ¾ x .035          | 19 x 0.90 |       | ▼ | ▼  | ▼  |    |      |    |    | ▼    |   |
| 1 x .035          | 27 x 0.90 |       |   |    | ▼  |    |      |    |    |      |   |

American-owned since 1963

# CHOOSING THE CORRECT BLADE

## TOOTH SELECTION

### Cut costs with the right choice.

For maximum cutting efficiency and lowest cost per cut, it is important to select a blade with the right number of teeth per inch (TPI) for the material being cut. Material size and shape dictate tooth selection.

## Consider this:

### (1) The width of the cut:

The distance in the cut that each tooth must travel from the point it enters and exits the work piece.

### (2) The shape of the work piece

## CHART USAGE

### Select TPI using the chart below.

Find the colored chart for the type of material you wish to cut. Move up to the correct material size next to the chart. Follow across to the appropriate TPI for your blade.

| Material Size (Inches) | Teeth Per Inch | Material Size (Metric) | Wall Thickness (Inches) | Teeth Per Inch | Wall Thickness (Metric) |
|------------------------|----------------|------------------------|-------------------------|----------------|-------------------------|
| 0                      |                | 0                      | 1/16                    | 10/14          | 1.8                     |
| .1                     | 14/18          | 2.5                    | 1/8                     | 8/12           | 3.2                     |
| .2                     | 10/14          | 5.1                    | 3/16                    | 6/10           | 4.8                     |
| .3                     | 8/12           | 7.6                    | 1/4                     | 5/8            | 6.3                     |
| .4                     | 6/10           | 10.2                   | 5/16                    | 4/6            | 7.9                     |
| .5                     | 5/8            | 12.7                   | 3/8                     | 3/4            | 9.5                     |
| .6                     | 4/6            | 15.0                   | 7/16                    | 2/3            | 11.0                    |
| .7                     | 3/4            | 17.8                   | 1/2                     | 1 1/8          | 12.7                    |
| .8                     | 2/3            | 20.0                   | 9/16                    | 1 1/4          | 14.3                    |
| .9                     | 1 1/2          | 22.9                   | 5/8                     | 1 3/8          | 15.8                    |
| 1                      | 1 1/4          | 25.4                   | 11/16                   | 1 1/2          | 17.5                    |
| 1-1/4                  | 1 1/2          | 31.8                   | 3/4                     | 1 3/4          | 19.0                    |
| 1-1/2                  | 1 3/4          | 38.1                   | 13/16                   | 2              | 20.6                    |
| 1-3/4                  | 2              | 44.5                   | 7/8                     | 2 1/4          | 22.0                    |
| 2                      | 2 1/4          | 50.8                   | 15/16                   | 2 1/2          | 23.8                    |
| 2-1/4                  | 2 1/2          | 57.2                   | 1                       | 2 3/4          | 25.4                    |
| 2-1/2                  | 2 3/4          | 63.5                   | 1-1/8                   | 3              | 28.6                    |
| 2-3/4                  | 3              | 69.9                   | 1-1/4                   | 3 1/2          | 32.0                    |
| 3                      | 3 1/4          | 76.2                   | 1-3/8                   | 4              | 35.0                    |
| 3-1/4                  | 3 1/2          | 82.6                   | 1-1/2                   | 4 1/2          | 38.0                    |
| 3-1/2                  | 3 3/4          | 88.9                   |                         |                |                         |
| 3-3/4                  | 4              | 95.3                   |                         |                |                         |
| 4                      | 4 1/2          | 101.6                  |                         |                |                         |
| 5                      | 5              | 127.0                  |                         |                |                         |
| 6                      | 6              | 152.4                  |                         |                |                         |
| 7                      | 7              | 177.8                  |                         |                |                         |
| 8                      | 8              | 203.0                  |                         |                |                         |
| 9                      | 9              | 228.6                  |                         |                |                         |
| 10                     | 10             | 254.0                  |                         |                |                         |
| 15                     | 15             | 381.0                  |                         |                |                         |
| 30                     | 30             | 762                    |                         |                |                         |

 Rectangular Solids:  
(Use Width)
  Round Solids:  
(Use Diameter)

 OH  
Pipe Tubing Structurals  
(Use Wall Thickness)

# MORSE RECIPROCATING BLADES

## MORSE RECIPROCATING BLADES

### HEAVY DUTY (HD) SERIES

The Heavy Duty line of bimetal reciprocating saw blades delivers results for price-conscious customers who are cutting wood, metal, or general purpose applications. Thick metal - 3/8" and thicker, Medium metal - 1/8"-3/8", Thin metal - up to 3/16".



| Part #           | Size            | Teeth Per Inch | Application  | Part #          | Size             | Teeth Per Inch | Application  |
|------------------|-----------------|----------------|--------------|-----------------|------------------|----------------|--------------|
| TRSBHD063510M    | 6 x 3/4 x .035  | 10             | Thick Metal  | TRSBHD083518M   | 8 x 3/4 x .035   | 18             | Thin Metal   |
| TRSBHD063510PKM  | 6 x 3/4 x .035* | 10             | Thick Metal  | TRSBHD083518PKM | 8 x 3/4 x .035*  | 18             | Thin Metal   |
| TRSBHD063514M    | 6 x 3/4 x .035  | 14             | Medium Metal | TRSBHD08501014M | 8 x 3/4 x .050   | 10/14          | Wood & Metal |
| TRSBHD063518100M | 6 x 3/4 x .035  | 18             | Thin Metal   | TRSBHD095006M   | 9 x 3/4 x .050   | 6              | Wood         |
| TRSBHD065006M    | 6 x 3/4 x .050  | 6              | Wood         | TRSBHD095006PKM | 9 x 3/4 x .050*  | 6              | Thin Metal   |
| TRSBHD065006PKM  | 6 x 3/4 x .050* | 6              | Wood         | TRSBHD123518M   | 12 x 3/4 x .035  | 18             | Thin Metal   |
| TRSBHD0835105M   | 8 x 3/4 x .035  | 10             | Thick Metal  | TRSBHD123518PKM | 12 x 3/4 x .035* | 18             | Thin Metal   |
| TRSBHD083514M    | 8 x 3/4 x .035  | 14             | Medium Metal | TRSBHD125006M   | 12 x 3/4 x .050  | 6              | Wood         |
| TRSBHD083514PKM  | 8 x 3/4 x .035* | 14             | Medium Metal |                 |                  |                |              |

\*5 Pack

### PROFESSIONAL (PRO) SERIES

The Professional Line of bimetal reciprocating saw blades delivers cutting results for performance-driven customers who are looking to cut wood, metal, or complete automotive dismantling/fire rescue operations where speed is important.



| Part #        | Size           | Teeth Per Inch | Application  | Part #         | Size            | Teeth Per Inch | Application |
|---------------|----------------|----------------|--------------|----------------|-----------------|----------------|-------------|
| TRSBP066214M  | 6 x 7/8 x .062 | 14             | Demo/Wood    | TRSBP096206M   | 9 x 7/8 x .062  | 6              | Demo/Wood   |
| TRSBP0662811M | 6 x 7/8 x .062 | 8/11           | Demo/Wood    | TRSBP096206PKM | 9 x 7/8 x .062* | 6              | Demo/Wood   |
| TRSBP064210M  | 6 x 1 x .042   | 10             | Thick Metal  | TRSBP124210M   | 12 x 1 x .042   | 10             | Thick Metal |
| TRSBP0962811M | 9 x 7/8 x .062 | 8/11           | Wood         | TRSBPC095008M  | 9 x 1 x .050    | 8              | Thick Metal |
| TRSBP094210M  | 9 x 1 x .042   | 10             | Thick Metal  | TRSBPC125008M  | 12 x 1 x .050   | 8              | Thick Metal |
| TRSBP094214M  | 9 x 1 x .042   | 14             | Medium Metal |                |                 |                |             |

\*5 Pack

### PROFESSIONAL CARBIDE TIPPED (PRO-CT) SERIES

The Professional Carbide (PRO-CT) line of carbide-tipped reciprocating saw blades delivers cutting results for performance-driven customers with hard-to-cut applications.

| Part #        | Size         | Teeth Per Inch | Application |
|---------------|--------------|----------------|-------------|
| TRSBPC065008M | 6 x 1 x .050 | 8              | Thick Metal |



# MORSE RECIPROCATING BLADES, HACKSAW BLADES, JIG-SAW BLADES, CHAIN BREAKERS

## PROFESSIONAL (PRO) KIT

| Part #    | Description                                                    |
|-----------|----------------------------------------------------------------|
| TRSBPK12M | 6" & 9" PRO Bi-Metal Reciprocating Blades Kit TPI 8/11, 14, 18 |



## HACKSAW BLADES

### MK MORSE • BI-METAL

Bi-metal Hack Saw Blades are designed to cut pipe, tubing, or any machinable metal. The blades will bend and flex, resisting shattering for safer sawing and longer lasting blades.

| Part # | Size           | Teeth Per Inch | Packaging Qty |
|--------|----------------|----------------|---------------|
| THB18M | 12 x 1/2 x .02 | 18             | 100           |



## JIG-SAW BLADES



| Part #      | Size                | Teeth Per Inch | Application                                   | Materials         | Packaging Qty |
|-------------|---------------------|----------------|-----------------------------------------------|-------------------|---------------|
| T2JSC31412P | 3-1/4 x 5/32 x .040 | 12             | Softwood, Plywood, OSB                        | High Carbon Steel | 5             |
| TRJT118B    | 3 x 5/16 x .039     | 14             | Steel & Non-Ferrous Metals, Over 1/8"         | Cobalt Bi-Metal   | 5             |
| TRJT144D    | 4 x 5/16 x .050     | 6              | Cement, Fiberglass & Plaster Board up to 3/4" | Carbide Tipped    | 5             |

## CHAIN BREAKERS



| Part # | Description               |
|--------|---------------------------|
| EQCBS  | #1 Chain Breaker #25-#60  |
| EQCBB  | #2 Chain Breaker #60-#100 |
| EQCBST | Small Chain Breaker Tips  |

| Part #  | Description                           |
|---------|---------------------------------------|
| EQCBSTA | Small Chain Breaker Tips Allied Locke |
| EQCBBT  | Big Chain Breaker Tips                |
| EQCBSTA | Big Chain Breaker Tips Allied Locke   |

## GREASE GUNS & ACCESSORIES, APEX DRIVE BITS & SOCKETS

### GREASE GUNS & ACCESSORIES

Lock-n-Lube Grease Gun Couplers have the following advantages: • Will not leak once locked on. • Hands-free, does not release under pressure • Rated up to 10,000 PSI. • Will not leak once locked on. • 1/8" NPT thread. Compatible with all grease guns. • Works on all Zerk fittings, SAE and metric. • Comes with free replacement seal and jaws. Fully rebuildable. • NEW: easily releases from clogged grease fittings, even under pressure.



| Part #  | Description                     | Part #    | Description                                              |
|---------|---------------------------------|-----------|----------------------------------------------------------|
| EQGGPG  | Lincoln Pistol Grip Grease Gun  | EQGGCP    | Premium Grease Gun Couplers                              |
| EQGGLA  | Lever Action Grease Gun Lincoln | EQGGCLNL  | Lock N Lube Grease Gun Couplers                          |
| EQGGW   | 12 Nylon Braided Grade Gun Whip | EQGGCLNRK | Lock N Lube Universal Replacement Grease Coupler Jaw Kit |
| EQGGW18 | 18 Grease Gun Whip              |           |                                                          |

### DRIVE BITS & SOCKETS



#### EXTENSION BITS FOR SOCKETS

| Part #  | Size    | Hex Drive | Packaging Qty | Part # | Size    | Hex Drive | Packaging Qty |
|---------|---------|-----------|---------------|--------|---------|-----------|---------------|
| TAE162  | 1/4 x 2 | 1/4       | 5             | TAE246 | 3/8 x 6 | 1/4       | 5             |
| TAE166  | 1/4 x 6 | 1/4       | 5             | TAE322 | 1/2 x 2 | 1/4       | 5             |
| TAE242  | 3/8 x 2 | 1/4       | 5             | TAE323 | 1/2 x 3 | 1/4       | 5             |
| TAE243P | 3/8 x 3 | 1/4       | 5             |        |         |           |               |

#### HEX DRIVE BITS

| Part # | Size     | Hex Drive | Packaging Qty | Part # | Size    | Hex Drive | Packaging Qty |
|--------|----------|-----------|---------------|--------|---------|-----------|---------------|
| TAH102 | 5/32 x 2 | 1/4       | 10            | TAH162 | 1/4 x 2 | 1/4       | 10            |
| TAH122 | 3/16 x 2 | 1/4       | 10            | TAHM52 | 5mm x 2 | 1/4       | 10            |



## PREMIUM DRIVE BITS



## MAGNETIC NUTSETTERS

| Part #   | Size          | Hex Drive | Packaging Qty | Part #   | Size          | Hex Drive | Packaging Qty |
|----------|---------------|-----------|---------------|----------|---------------|-----------|---------------|
| TAN16175 | 1/4 x 1-3/4   | 1/4       | 5             | TAN24175 | 3/8 x 1-3/4   | 1/4       | 5             |
| TAN16256 | 1/4 x 2-9/16  | 1/4       | 5             | TAN24256 | 3/8 x 2-9/16  | 1/4       | 5             |
| TAN20175 | 5/16 x 1-3/4  | 1/4       | 5             | TAN244   | 3/8 x 4       | 1/4       | 5             |
| TAN20256 | 5/16 x 2-9/16 | 1/4       | 5             | TAN246   | 3/8 x 6       | 1/4       | 5             |
| TAN204   | 5/16 x 4      | 1/4       | 5             | TAN28256 | 7/16 x 2-9/16 | 1/4       | 5             |
| TAN206   | 5/16 x 6      | 1/4       | 5             | TAN322   | 1/2 x 2       | 1/4       | 5             |



## PHILLIPS POWER DRIVE BITS

| Part #  | Size       | Hex Drive | Packaging Qty | Part #  | Size       | Hex Drive | Packaging Qty |
|---------|------------|-----------|---------------|---------|------------|-----------|---------------|
| TAP1275 | #1 x 2-3/4 | 1/4       | 10            | TAP32   | #3 x 2     | 1/4       | 10            |
| TAP16   | #1 x 6     | 1/4       | 10            | TAP3275 | #3 x 2-3/4 | 1/4       | 10            |
| TAP22   | #2 x 2     | 1/4       | 10            | TAP335  | #3 x 3-1/2 | 1/4       | 10            |
| TAP2275 | #2 x 2-3/4 | 1/4       | 10            | TAP3354 | #3 x 3-1/2 | 1/4       | 10            |
| TAP235  | #2 x 3-1/2 | 1/4       | 10            | TAP36   | #3 x 6     | 1/4       | 10            |
| TAP26   | #2 x 6     | 1/4       | 10            |         |            |           |               |



## PHILLIPS POWER DRIVE BITS • INTERMEDIATE HARDNESS

| Part #  | Size       | Hex Drive | Packaging Qty | Part #  | Size       | Hex Drive | Packaging Qty |
|---------|------------|-----------|---------------|---------|------------|-----------|---------------|
| TAP22I  | #2 x 2     | 1/4       | 10            | TAP335I | #3 x 3-1/2 | 1/4       | 10            |
| TAP235I | #2 x 3-1/2 | 1/4       | 10            |         |            |           |               |

Intermediate hardness should be used when you have problems with a bit shattering or breaking.

## PREMIUM DRIVE BITS

### SLOTTED POWER DRIVE BITS

| Part #   | Size    | Hex Drive | Packaging Qty |
|----------|---------|-----------|---------------|
| TAS10122 | #10 x 2 | 1/4       | 5             |

| Part #   | Size    | Hex Drive | Packaging Qty |
|----------|---------|-----------|---------------|
| TAS12142 | #12 x 2 | 1/4       | 5             |



### SQUARE POWER DRIVE BITS

| Part #  | Size       | Hex Drive | Packaging Qty |
|---------|------------|-----------|---------------|
| TAS12   | #1 x 2     | 1/4       | 10            |
| TAS1275 | #1 x 2-3/4 | 1/4       | 10            |
| TAS22   | #2 x 2     | 1/4       | 10            |
| TAS2275 | #2 x 2-3/4 | 1/4       | 10            |

| Part # | Size       | Hex Drive | Packaging Qty |
|--------|------------|-----------|---------------|
| TAS235 | #2 x 3-1/2 | 1/4       | 10            |
| TAS26  | #2 x 6     | 1/4       | 10            |
| TAS32  | #3 x 2     | 1/4       | 10            |



### TORX DRIVE BITS

| Part #   | Size        | Hex Drive | Packaging Qty |
|----------|-------------|-----------|---------------|
| TAT10275 | T10 x 2-3/4 | 1/4       | 10            |
| TAT15275 | T15 x 2-3/4 | 1/4       | 10            |
| TAT202   | T20 x 2     | 1/4       | 10            |
| TAT20275 | T20 x 2-3/4 | 1/4       | 10            |
| TAT206   | T20 x 6     | 1/4       | 5             |
| TAT25275 | T25 x 2-3/4 | 1/4       | 10            |
| TAT272   | T27 x 2     | 1/4       | 10            |

| Part #   | Size        | Hex Drive | Packaging Qty |
|----------|-------------|-----------|---------------|
| TAT2735  | T27 x 3-1/2 | 1/4       | 10            |
| TAT276   | T27 x 6     | 1/4       | 10            |
| TAT302   | T30 x 2     | 1/4       | 10            |
| TAT30275 | T30 x 2-3/4 | 1/4       | 10            |
| TAT402   | T40 x 2     | 1/4       | 10            |
| TAT40275 | T40 x 2-3/4 | 1/4       | 10            |



### TORX INSERT BITS

| Part # | Size    | Hex Drive | Packaging Qty |
|--------|---------|-----------|---------------|
| TAT201 | T20 x 1 | 1/4       | 10            |
| TAT301 | T30 x 1 | 1/4       | 10            |

| Part # | Size    | Hex Drive | Packaging Qty |
|--------|---------|-----------|---------------|
| TAT401 | T40 x 1 | 1/4       | 10            |



## ECONOMY BITS

## MAGNETIC NUT SETTERS

| Part #     | Size          | Packaging Qty |
|------------|---------------|---------------|
| TMNS16P    | 1/4           | 5             |
| TMNS1625AP | 1/4 x 2-9/16  | 5             |
| TMNS166AP  | 1/4 x 6       | 5             |
| TMNS20Q    | 5/16          | 5             |
| TMNS2025AP | 5/16 x 2-9/16 | 5             |
| TMNS204Q   | 5/16 x 4      | 5             |
| TMNS206AP  | 5/16 x 6      | 5             |

| Part #     | Size          | Packaging Qty |
|------------|---------------|---------------|
| TMNS24Q    | 3/8           | 5             |
| TMNS2425AP | 3/8 x 2-9/16  | 5             |
| TMNS244AL  | 3/8 x 4       | 5             |
| TMNS246AP  | 3/8 x 6       | 5             |
| TMNS28Q    | 7/16          | 5             |
| TMNS2825AP | 7/16 x 2-9/16 | 5             |
| TMNS32Q    | 1/2           | 5             |



## SQUARE DRIVE BITS

| Part #    | Size       | Packaging Qty |
|-----------|------------|---------------|
| TBS#12AP  | #1 x 2     | 10            |
| TBS#1275Q | #1 x 2-3/4 | 10            |
| TBS#21Q   | #2 x 1     | 10            |
| TBS#22AP  | #2 x 2     | 10            |
| TBS#2275Q | #2 x 2-3/4 | 10            |

| Part #    | Size       | Packaging Qty |
|-----------|------------|---------------|
| TBS#235Q  | #2 x 3-1/2 | 10            |
| TBS#26AP  | #2 x 6     | 10            |
| TBS#335AP | #3 x 3-1/2 | 10            |
| TBS2P#22Q | #2 x 2     | 10            |
| TBS2P#23Q | #2 x 3     | 10            |



## PHILLIPS DRIVE BITS

| Part #    | Size       | Packaging Qty |
|-----------|------------|---------------|
| TBP#12AP  | #1 x 2-3/4 | 10            |
| TBP#16Q   | #1 x 6     | 10            |
| TBP#22AP  | #2 x 2     | 10            |
| TBP#2275Q | #2 x 2-3/4 | 10            |
| TBP#23AP  | #2 x 3-1/2 | 10            |

| Part #    | Size       | Packaging Qty |
|-----------|------------|---------------|
| TBP#26AP  | #2 x 6     | 10            |
| TBP#32AP  | #3 x 2     | 10            |
| TBP#3275Q | #3 x 2-3/4 | 10            |
| TBP#335Q  | #3 x 3-1/2 | 10            |
| TBP#36AP  | #3 x 6     | 10            |





## ECONOMY BITS, U-BITS (U2 SCREWS ONLY), MAGNETIC BIT HOLDER



### PHILLIPS INSERT DRIVE BITS

| Part #    | Size   | Packaging Qty |
|-----------|--------|---------------|
| TBIP#11AP | #1 x 1 | 10            |

| Part #    | Size   | Packaging Qty |
|-----------|--------|---------------|
| TBIP#21AP | #2 x 1 | 10            |



### TORX® DRIVE BITS

| Part #    | Size        | Packaging Qty |
|-----------|-------------|---------------|
| TBT10275Q | T10 x 2-3/4 | 10            |
| TBT15275Q | T15 x 2-3/4 | 10            |
| TBT156Q   | T15 x 6     | 10            |
| TBT202Q   | T20 x 2     | 10            |
| TBT2035Q  | T20 x 3-1/2 | 10            |
| TBT25275Q | T25 x 2-3/4 | 10            |

| Part #    | Size        | Packaging Qty |
|-----------|-------------|---------------|
| TBT256Q   | T25 x 6     | 10            |
| TBT27275Q | T27 x 2     | 10            |
| TBT301Q   | T30         | 10            |
| TBT30275Q | T30 x 2-3/4 | 10            |
| TBT401Q   | T40         | 10            |

## U-BITS (U2 SCREWS ONLY)



| Part # | Size    | Packaging Qty |
|--------|---------|---------------|
| TUT102 | T10 x 2 | 1             |
| TUT103 | T10 x 3 | 1             |
| TUT106 | T10 x 6 | 1             |
| TUT152 | T15 x 2 | 1             |
| TUT153 | T15 x 3 | 1             |
| TUT156 | T15 x 6 | 1             |
| TUT252 | T25 x 2 | 1             |

| Part # | Size    | Packaging Qty |
|--------|---------|---------------|
| TUT253 | T25 x 3 | 1             |
| TUT256 | T25 x 6 | 1             |
| TUT303 | T30 x 3 | 1             |
| TUT306 | T30 x 6 | 1             |
| TUT402 | T40 x 2 | 1             |
| TUT403 | T40 x 3 | 1             |

## MAGNETIC BIT HOLDER

| Part # | Size | Packaging Qty |
|--------|------|---------------|
| TBHMUQ | 1/4  | 3             |



## EXTENSION BITS

Extension Bits provide a simple way to use your sockets with a drill.



| Part #  | Size    | Length | Bulk Packaging Qty | Packaging Qty |
|---------|---------|--------|--------------------|---------------|
| TBSA04A | 1/4 Sq. | 2-9/16 | 30                 | 3             |
| TBSA06Q | 3/8 Sq. | 2-9/16 | 30                 | 3             |
| TBSA08Q | 1/2 Sq. | 2-9/16 | 30                 | 3             |

## HEX KEYS



| Part #  | Description            | Part # | Description                |
|---------|------------------------|--------|----------------------------|
| TAWL05K | 5/64 Hex Key Long Arm  | TAW10K | 5/32 Allen Wrench          |
| TAW06K  | 3/32 Hex Key Short Arm | TAW12K | 3/16 Allen Wrench          |
| TAW08K  | 1/8 Allen Wrench       | TAW16K | 1/4 Allen Wrench-Short Arm |
| TAW09K  | 9/64 Allen Wrench      | TAW24K | 3/8 Allen Wrench           |

## HEX KEY SETS

| Part #   | Description                                                                                  |
|----------|----------------------------------------------------------------------------------------------|
| TPT35002 | T35002 PROFERRED LONG ARM BALL POINT HEX KEY SET 13 PIECE (SAE 0.05 - 3/8") SAE BLACK FINISH |



## HAND RIVET TOOLS

## RIVETKING • KR-65

The RivetKing RK-65 represents the best in manual squeeze riveting. Its design was founded based on quality, price, and endurance. The RK-65 housing is produced from a high-quality magnesium alloy while the handle is made from forged Chromium Vanadium (Cr-V) steel, the same steel that is used in high-quality wrenches. This tool has NO stamped handles; therefore, its life expectancy far exceeds those of popular manufacturers and inferior imports.

| Part # | Description                                    |
|--------|------------------------------------------------|
| TRRK65 | RIVETKING Model KR-65 HAND-OPERATED RIVET TOOL |



# HAND RIVET TOOLS, SNAP RING PLIERS, LOCKING C-CLAMPS WITH SWIVEL PADS, CURVED JAW LOCKING PLIERS

## RIVETKING - KR-21 - RIVET/RIVET NUT SETTER

The KR-21 is: Two-handed operation for greater leverage and power, ideal for larger rivets/rivet nuts. Ergonomic design to reduce fatigue and enhance comfort. Patented fold-away design for easy transport and compact storage. Durable forged steel arms for reliability and long-lasting use. Complete kit with nose pieces and mandrels, neatly organized in a blow-molded carrying case.

| Part # | Size                                                  | Description                                         |
|--------|-------------------------------------------------------|-----------------------------------------------------|
| TRRK21 | (1/8-1/4 Pop rivets) (8-32(M4)-3/8-16(M10) Rivetnuts) | RK-21 Rivet King, Rivet/Rivet Nut Setter Tool Combo |



## SNAP RING PLIERS

| Part #   | Description                                                                |
|----------|----------------------------------------------------------------------------|
| TPT22001 | T22001 PROFERRED INTERNAL/EXTERNAL SNAP RING PLIERS WITH QUICK SWITCH TIPS |



## LOCKING C-CLAMPS WITH SWIVEL PADS

| Part #   | Description                                           |
|----------|-------------------------------------------------------|
| TPT23211 | T23211 PROFERRED LOCKING C-CLAMPS WITH SWIVEL PADS 11 |



## CURVED JAW LOCKING PLIERS

| Part #   | Description                         |
|----------|-------------------------------------|
| TPT23010 | T23010 CURVED JAW LOCKING PLIERS 10 |



## WIRE STRIPPERS

| Part #   | Description                                   |
|----------|-----------------------------------------------|
| TPT22011 | T22011 PROFERRED 2 IN 1 WIRE STRIPPER/CRIMPER |



## SWAGING TOOLS



| Part #   | Description                            |
|----------|----------------------------------------|
| LCST0412 | Swaging Tool 1/16" - 3/16" 2 Handle 26 |

| Part #   | Description                                           |
|----------|-------------------------------------------------------|
| LCST1620 | Swage250-312 Swaging Tool 1/4, 5/32, 5/16 2 Handle 30 |

## UTILITY KNIVES



| Part #     | Description                                             |
|------------|---------------------------------------------------------|
| TO68010175 | 680-10-175 Stanley Homeowners Retractable Utility Knife |
| TPT54001   | T54001 PROFERRED RETRACTABLE UTILITY KNIFE 6" inches    |
| TPT54005   | T54005 PROFERRED FOLDING UTILITY KNIFE 6" inches        |

| Part #   | Description                                        |
|----------|----------------------------------------------------|
| TPT55001 | T55001 PROFERRED BLADE (12PC) 12 Blades 70x25x22mm |
| TBUK100  | Utility Knife Blades 100 Pk                        |

# TAPE MEASURES, PERMANENT MARKERS, VALVE ACTION PAINT MARKERS

## TAPE MEASURES



| Part #     | Description                              |
|------------|------------------------------------------|
| T2MT64442Y | 16' Steel Tape Measure                   |
| TZG0750845 | 25' Stanley Fractional Read Tape Measure |

| Part #   | Description                                       |
|----------|---------------------------------------------------|
| TPT53002 | T53002 PROFERRED TAPE MEASURE 25 ft-1 1/16" BLADE |

## PERMANENT MARKERS



| Part #  | Description                    | Packaging Qty |
|---------|--------------------------------|---------------|
| TOSFTMB | Sharpie Fine Tip Marker Black  | 12            |
| TKSBK   | Sharpie King Size Black Marker | 12            |

| Part # | Description                  | Packaging Qty |
|--------|------------------------------|---------------|
| TKSRK  | Sharpie King Size Red Marker | 12            |

## VALVE ACTION PAINT MARKERS



| Part #      | Description                                                 | Packaging Qty |
|-------------|-------------------------------------------------------------|---------------|
| TO434-96826 | Valve Action Paint Markers, Green, 1/8 in, Medium (Markal)  | 12            |
| TO434-96820 | Valve Action Paint Markers, White, 1/8 in, Medium (Markal)  | 12            |
| TO434-96823 | Valve Action Paint Markers, Black, 1/8 in, Medium (Markal)  | 12            |
| TO434-96824 | Valve Action Paint Markers, Orange, 1/8 in, Medium (Markal) | 12            |

| Part #      | Description                                                 | Packaging Qty |
|-------------|-------------------------------------------------------------|---------------|
| TO434-96825 | Valve Action Paint Markers, Blue, 1/8 in, Medium (Markal)   | 12            |
| TO434-96821 | Valve Action Paint Markers, Yellow, 1/8 in, Medium (Markal) | 12            |
| TO434-96822 | Valve Action Paint Markers, Red, 1/8 in, Medium (Markal)    | 12            |

# Section 3:

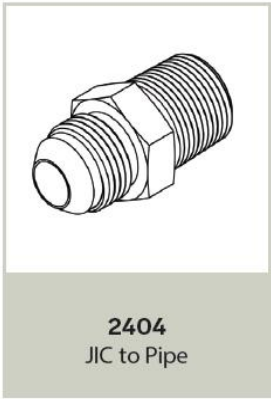
## Hoses & Fittings





## THREAD CHARTS • JIC-SAE • Metric/International

|                          |           |           |           |              |              |          |          |          |
|--------------------------|-----------|-----------|-----------|--------------|--------------|----------|----------|----------|
| Dash Size                | 02        | 03        | 04        | 05           | 06           | 07       | 08       | 10       |
| Tube O.D.                | 1/8       | 3/16      | 1/4       | 5/16         | 3/8          | 7/16     | 1/2      | 5/8      |
| Hose I.D.                | 1/8       | 3/16      | 1/4       | 5/16         | 3/8          |          | 1/2      | 5/8      |
| JIC 37-Flare Thread      | 5/16-24   | 3/8-24    | 7/16-20   | 1/2-20       | 9/16-18      |          | 3/4-16   | 7/8-14   |
| SAE O-Ring Thread        | 5/16-24   | 3/8-24    | 7/16-20   | 1/2-20       | 9/16-18      |          | 3/4-16   | 7/8-14   |
| NPTF Pipe Thread         | 1/8-27    |           | 1/4-18    |              | 3/8-18       |          | 1/2-14   |          |
| NPSM Swivel Thread       | 1/8-27    |           | 1/4-18    |              | 3/8-18       |          | 1/2-14   |          |
| Flat Face Thread         |           |           | 9/16-18   |              | 11/16-16     |          | 13/16-16 | 1-14     |
| Code 61 Flange Head O.D. |           |           |           |              |              |          | 1.19     |          |
| Code 62 Flange Head O.D. |           |           |           |              |              |          | 1.25     |          |
| British Thread BSPP/BSPT | 1/8-28    |           | 1/4-19    |              | 3/8-19       |          | 1/2-14   |          |
| SAE 45-Flare Thread      | 5/16-24   | 3/8-24    | 7/16-20   | 1/2-20       | 5/8-18       | 11/16-24 | 3/4-16   | 7/8-14   |
| Inverted Flare Thread    | 5/16-28   | 3/8-24    | 7/16-24   | 1/2-20       | 5/8-18       | 11/16-18 | 3/4-18   | 7/8-18   |
|                          |           |           |           |              |              |          |          |          |
| Metric Thread            | 10        | 12        | 14        | 16           | 18           | 20       | 22       | 24       |
|                          | M10x1.0   | M12x1.5   | M14x1.5   | M16x1.5      | M18x1.5      | M20x1.5  | M22x1.5  | M24x1.5  |
| Dash Size                | 12        | 14        | 16        | 20           | 24           | 32       | 40       | 48       |
| Tube O.D.                | 3/4       | 7/8       | 1         | 1 1/4        | 1 1/2        | 2        | 2 1/2    | 3        |
| Hose I.D.                | 3/4       |           | 1         | 1 1/4        | 1 1/2        | 2        | 2 1/2    | 3        |
| JIC 37-Flare Thread      | 1 1/16-12 | 1 3/16-12 | 1 5/16-12 | 1 5/8-12     | 1 7/8-12     | 2 1/2-12 | 3-12     | 3 1/2-12 |
| SAE O-Ring Thread        | 1 1/16-12 | 1 3/16-12 | 1 5/16-12 | 1 5/8-12     | 1 7/8-12     | 2 1/2-12 |          |          |
| NPTF Pipe Thread         | 3/4-14    |           | 1-11 1/2  | 1 1/4-11 1/2 | 1 1/2-11 1/2 | 2-11 1/2 | 2 1/2-8  | 3-8      |
| NPSM Swivel Thread       | 3/4-14    |           | 1-11 1/2  | 1 1/4-11 1/2 | 1 1/2-11 1/2 | 2-11 1/2 |          |          |
| Flat Face Thread         | 1 3/16-12 | 1 5/16-12 | 1 7/16-12 | 1 11/16-12   | 2-12         |          |          |          |
| Code 61 Flange Head O.D. | 1.50      |           | 1.75      | 2.00         | 2.38         | 2.81     | 3.31     | 4.00     |
| Code 62 Flange Head O.D. | 1.62      |           | 1.88      | 2.12         | 2.50         | 3.12     |          |          |
| British Thread BSPP/BSPT | 3/4-14    |           | 1-11      | 1 1/4-11     | 1 1/2-11     |          |          |          |
| SAE 45-Flare Thread      | 1 1/16-14 |           |           |              |              |          |          |          |
| Inverted Flare Thread    | 1 1/16-16 |           |           |              |              |          |          |          |
|                          |           |           |           |              |              |          |          |          |
| Metric Thread            | 26        | 27        | 30        | 33           | 36           | 42       | 48       |          |
|                          | M26x1.5   | M27x2.0   | M30x2.0   | M33x2.0      | M36x2.0      | M42x2.0  | M48x2.0  |          |

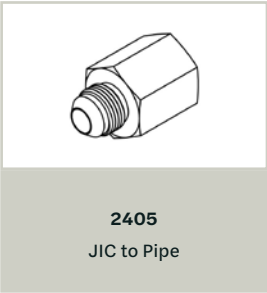
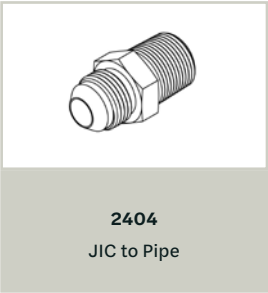
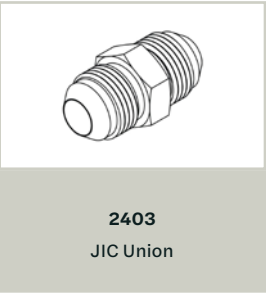
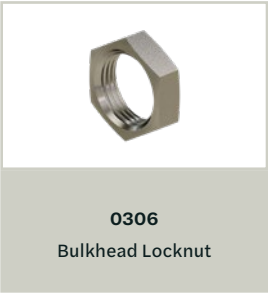
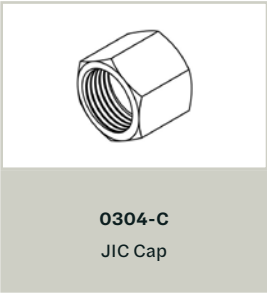


How to build your part number:

Male JIC to Pipe - 1/4 x 1/8 = 2404-04-02

| Fitting Code | Thread 1 |         | Thread 2 |
|--------------|----------|---------|----------|
| 2404         | 1/4      | 7/16-20 | 1/8      |
| 2404         | -04      |         | -02      |

37° JIC ADAPTERS

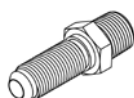




## HYDRAULIC ADAPTERS



**2700-LN**  
JIC Bulkhead Union with  
Locknut



**2706**  
JIC to Pipe Bulkhead



**6400**  
JIC to O-Ring



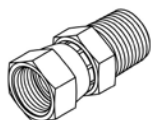
**6402**  
O-Ring to JIC Swivel



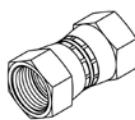
**6500**  
JIC Swivel Elbow 90°



**6502**  
JIC Swivel Elbow 45°



**6505**  
JIC Swivel to Pipe



**6510**  
JIC Swivel Union



**6801**  
JIC to O-Ring Elbow 90°



**6802**  
JIC to O-Ring Elbow 45°

## HOSE PROTECTION

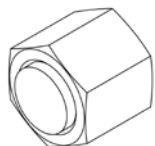


**NHS**  
Protec Nylon Hose Sleeve

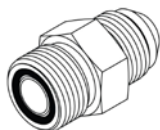


**PWP**  
ProWrap Plus Extreme Duty  
Hose and Cable Protection

## O-RING FACE SEAL ADAPTERS



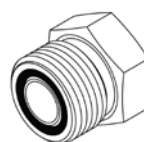
**FF0304-C**  
ORFS Cap



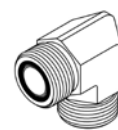
**FF2402**  
ORFS to JIC



**FF2403**  
ORFS Union



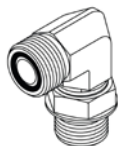
**FF2408**  
ORFS Plug



**FF2500**  
ORFS Union Elbow 90°

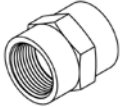
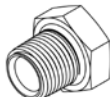
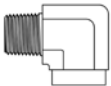
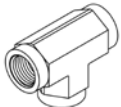
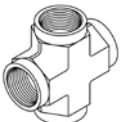
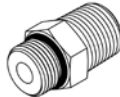
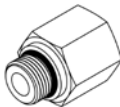


**FF6500**  
ORFS to ORFS Swivel Elbow  
90°

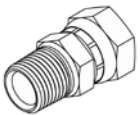
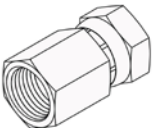
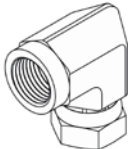
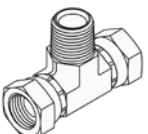
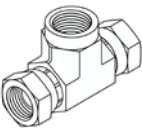
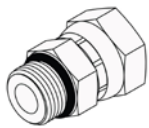
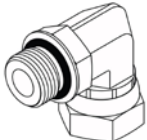


**FF6801**  
ORFS to O-Ring Elbow 90°

## PIPE ADAPTERS

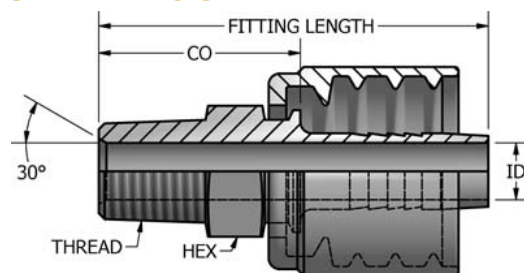
|                                                                                    |                                                                                    |                                                                                    |                                                                                      |                                                                                     |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|   |   |   |   |  |
| <b>5000</b><br>Pipe Coupling                                                       | <b>5404</b><br>Hex Pipe Nipple                                                     | <b>5406</b><br>Hex Pipe Reducer Bushing                                            | <b>5406-P</b><br>Hex Head Pipe Plug                                                  | <b>5501</b><br>Pipe Elbow 45°                                                       |
|   |   |   |   |  |
| <b>5502</b><br>Street Elbow Pipe 90°                                               | <b>5503</b><br>Street Pipe Elbow 45°                                               | <b>5504</b><br>Pipe Elbow 90°                                                      | <b>5603</b><br>Run Pipe Tee                                                          | <b>5604</b><br>Branch Pipe Tee                                                      |
|  |  |  |  |                                                                                     |
| <b>5605</b><br>Pipe Tee                                                            | <b>5652</b><br>Pipe Cross                                                          | <b>6401</b><br>O-Ring to Pipe                                                      | <b>6405</b><br>O-Ring to Pipe                                                        |                                                                                     |

## PIPE SWIVEL ADAPTERS

|                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| <b>1404</b><br>Pipe to Pipe Swivel                                                  | <b>1405</b><br>Pipe to Pipe Swivel                                                  | <b>1501</b><br>Pipe to Pipe Swivel Elbow 90°                                        | <b>1502</b><br>Pipe to Pipe Swivel Elbow 90°                                          | <b>1503</b><br>Pipe to Pipe Swivel Elbow 45°                                          |
|  |  |  |  |                                                                                       |
| <b>1601</b><br>Pipe Swivel Branch Tee                                               | <b>1602</b><br>Pipe Swivel Branch Tee                                               | <b>6900</b><br>O-Ring to Pipe Swivel                                                | <b>6901</b><br>O-Ring to Pipe Swivel Elbow 90°                                        |                                                                                       |

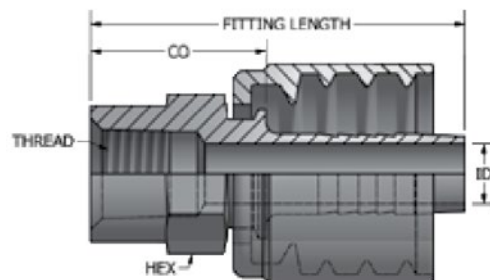
# 1J ONE-PIECE BITE THE WIRE CRIMP HYDRAULIC FITTINGS

## 1J ONE-PIECE BITE THE WIRE CRIMP HYDRAULIC FITTINGS



### NPT SOLID MALE STEM

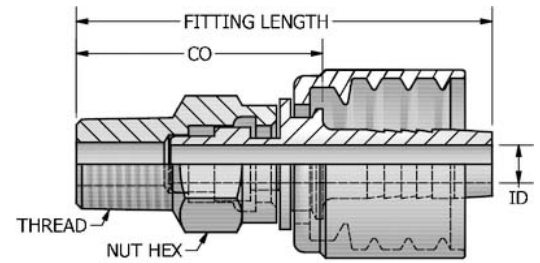
| Part #       | Hose ID | Thread         | Hex    | Stem I.D. | Fitting Length | -CO- Cutoff | Pkg Qty |
|--------------|---------|----------------|--------|-----------|----------------|-------------|---------|
| EQHF2041J102 | 1/4     | 1/8-27         | 5/8    | 0.156     | 1.833          | 0.843       | 10      |
| EQHF2041J104 | 1/4     | 1/4-18         | 5/8    | 0.156     | 2.020          | 1.030       | 10      |
| EQHF2041J106 | 1/4     | 3/8-18         | 11/16  | 0.156     | 2.020          | 1.030       | 10      |
| EQHF2041J108 | 1/4     | 1/2-14         | 7/8    | 0.156     | 2.255          | 1.265       | 5       |
| EQHF2061J104 | 3/8     | 1/4-18         | 11/16  | 0.296     | 2.051          | 1.061       | 10      |
| EQHF2061J106 | 3/8     | 3/8-18         | 11/16  | 0.296     | 2.051          | 1.061       | 10      |
| EQHF2061J108 | 3/8     | 1/2-14         | 7/8    | 0.296     | 2.302          | 1.312       | 5       |
| EQHF2081J106 | 1/2     | 3/8-18         | 3/4    | 0.406     | 2.374          | 1.124       | 5       |
| EQHF2081J108 | 1/2     | 1/2-14         | 7/8    | 0.406     | 2.562          | 1.312       | 5       |
| EQHF2081J112 | 1/2     | 3/4-14         | 1-1/16 | 0.406     | 2.624          | 1.374       | 5       |
| EQHF2101J108 | 5/8     | 1/2-14         | 7/8    | 0.500     | 2.624          | 1.374       | 5       |
| EQHF2101J112 | 5/8     | 3/4-14         | 1-18   | 0.500     | 2.624          | 1.374       | 5       |
| EQHF2121J108 | 3/4     | 1/2-14         | 1-1/16 | 0.737     | 2.614          | 1.364       | 5       |
| EQHF2121J112 | 3/4     | 3/4-14         | 1-1/16 | 0.625     | 2.676          | 1.426       | 5       |
| EQHF2121J116 | 3/4     | 1 - 11-1/2     | 1-3/8  | 0.625     | 2.926          | 1.676       | 5       |
| EQHF2161J112 | 1       | 3/4-14         | 1-3/8  | 0.717     | 2.922          | 1.452       | 5       |
| EQHF2161J116 | 1       | 1 - 11-1/2     | 1-3/8  | 0.843     | 3.172          | 1.702       | 5       |
| EQHF2201J120 | 1-1/4   | 1-1/4 - 11-1/2 | 1-3/4  | 1.062     | 3.943          | 2.02        | 3       |



### NPT SOLID FEMALE STEM

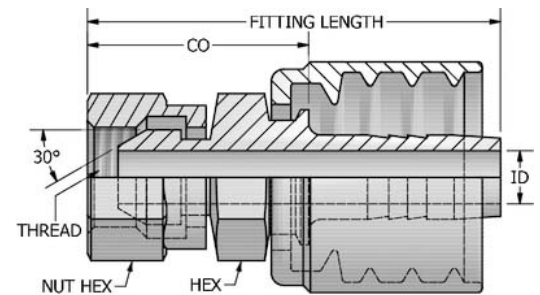
| Part #       | Hose ID | Thread | Nut Hex | Stem I.D. | Fitting Length | -CO- Cutoff | Pkg Qty |
|--------------|---------|--------|---------|-----------|----------------|-------------|---------|
| EQHF2041J902 | 1/4     | 1/8-27 | 5/8     | 0.156     | 1.864          | 0.874       | 10      |
| EQHF2041J904 | 1/4     | 1/4-18 | 11/16   | 0.156     | 1.864          | 0.874       | 10      |
| EQHF2061J906 | 3/8     | 3/8-18 | 13/16   | 0.296     | 1.989          | 0.999       | 5       |
| EQHF2081J908 | 1/2     | 1/2-14 | 1       | 0.406     | 2.390          | 1.140       | 5       |
| EQHF2121J912 | 3/4     | 3/4-14 | 1-1/4   | 0.625     | 2.676          | 1.426       | 5       |

# 1J ONE-PIECE BITE THE WIRE CRIMP HYDRAULIC FITTINGS



## NPT SWIVEL MALE STEM

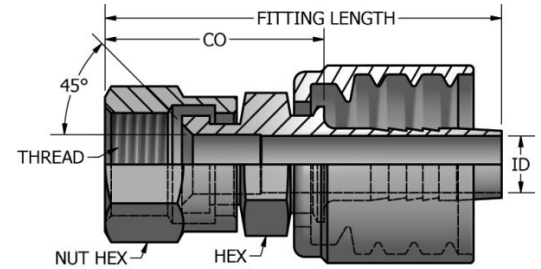
| Part #       | Hose ID | Thread   | Nut Hex | Stem I.D. | Fitting Length | -CO- Cutoff | Pkg Qty |
|--------------|---------|----------|---------|-----------|----------------|-------------|---------|
| EQHF2041J204 | 1/4     | 1/4-18   | 11/16   | 0.156     | 2.445          | 1.440       | 10      |
| EQHF2041J206 | 1/4     | 3/8-18   | 13/16   | 0.156     | 2.595          | 1.625       | 10      |
| EQHF2061J206 | 3/8     | 3/8-18   | 13/16   | 0.296     | 2.590          | 1.625       | 10      |
| EQHF2061J208 | 3/8     | 1/2-14   | 7/8     | 0.296     | 2.780          | 1.810       | 5       |
| EQHF2081J206 | 1/2     | 3/8-18   | 1       | 0.296     | 2.835          | 1.605       | 5       |
| EQHF2081J208 | 1/2     | 1/2-14   | 1       | 0.406     | 3.035          | 1.800       | 5       |
| EQHF2121J208 | 3/4     | 1/2-14   | 1-5/16  | 0.439     | 3.125          | 1.890       | 5       |
| EQHF2121J212 | 3/4     | 3/4-14   | 1-5/16  | 0.625     | 3.135          | 1.885       | 5       |
| EQHF2161J216 | 1       | 1-11-1/2 | 1-5/8   | 0.844     | 3.760          | 2.300       | 3       |



## NPT SWIVEL FEMALE STEM

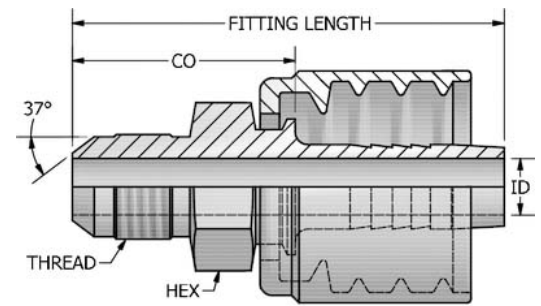
| Part #         | Hose ID | Thread   | Stem Hex | Nut Hex | Stem I.D. | Fitting Length | -CO- Cutoff | Pkg Qty |
|----------------|---------|----------|----------|---------|-----------|----------------|-------------|---------|
| EQHF2041J4FPX  | 1/4     | 1/4-1/8  | 5/8      | 11/16   | 0.156     | 2.017          | 1.027       | 10      |
| EQHF2041J6FPX  | 1/4     | 3/8-18   | 5/8      | 7/8     | 0.156     | 2.120          | 1.143       | 10      |
| EQHF2061J4FPX  | 3/8     | 1/4-1/8  | 11/16    | 11/16   | 0.250     | 2.040          | 1.079       | 10      |
| EQHF2061J6FPX  | 3/8     | 3/8-18   | 11/16    | 7/8     | 0.296     | 2.142          | 1.153       | 10      |
| EQHF2061J8FPX  | 3/8     | 1/2-14   | 13/16    | 1       | 0.296     | 2.253          | 1.263       | 10      |
| EQHF2081J8FPX  | 1/2     | 1/2-14   | 13/16    | 1       | 0.406     | 2.470          | 1.230       | 10      |
| EQHF2101J12FPX | 5/8     | 3/4-14   | 1-1/8    | 1-1/4   | 0.505     | 2.628          | 1.178       | 10      |
| EQHF2121J12FPX | 3/4     | 3/4-14   | 1-1/8    | 1-1/4   | 0.625     | 2.769          | 1.519       | 10      |
| EQHF2161J16FPX | 1       | 1-11-1/2 | 1-3/8    | 1-1/2   | 0.843     | 2.980          | 1.520       | 3       |

# 1J ONE-PIECE BITE THE WIRE CRIMP HYDRAULIC FITTINGS



## SAE 45° SWIVEL FEMALE STEM

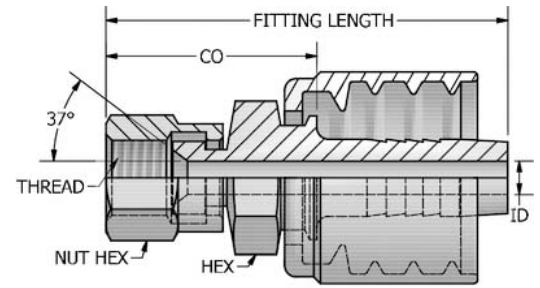
| Part #       | Hose ID | Thread  | Nut Hex | Stem Hex | Stem I.D. | Fitting Length | -CO- Cutoff | Pkg Qty |
|--------------|---------|---------|---------|----------|-----------|----------------|-------------|---------|
| EQHF2041J404 | 1/4     | 7/16-20 | 5/8     | 9/16     | 0.156     | 2.075          | 1.075       | 10      |
| EQHF2041J406 | 1/4     | 5/8-18  | 5/8     | 3/4      | 0.156     | 2.210          | 1.215       | 10      |
| EQHF2061J406 | 3/8     | 5/8-18  | 11/16   | 3/4      | 0.296     | 2.195          | 1.195       | 10      |
| EQHF2081J408 | 1/2     | 3/4-1/2 | 13/16   | 7/8      | 0.406     | 2.540          | 1.280       | 5       |



## JIC SOLID MALE STEM

| Part #       | Hose ID | Thread     | Hex    | Stem I.D. | Fitting Length | -CO- Cutoff | Pkg Qty |
|--------------|---------|------------|--------|-----------|----------------|-------------|---------|
| EQHF2041J504 | 1/4     | 7/16-20    | 5/8    | 0.156     | 2.003          | 1.014       | 10      |
| EQHF2041J505 | 1/4     | 1/2-20     | 5/8    | 0.156     | 2.019          | 1.029       | 10      |
| EQHF2041J506 | 1/4     | 9/16-18    | 5/8    | 0.156     | 2.013          | 1.023       | 10      |
| EQHF2061J506 | 3/8     | 9/16-18    | 11/16  | 0.265     | 2.045          | 1.055       | 10      |
| EQHF2061J508 | 3/8     | 3/4-16     | 3/4    | 0.296     | 2.145          | 1.155       | 5       |
| EQHF2081J508 | 1/2     | 3/4-16     | 13/16  | 0.406     | 2.468          | 1.218       | 5       |
| EQHF2081J510 | 1/2     | 7/8-14     | 7/8    | 0.406     | 2.562          | 1.312       | 5       |
| EQHF2081J512 | 1/2     | 1-1/16-1/2 | 1-1/16 | 0.406     | 2.669          | 1.429       | 3       |
| EQHF2101J510 | 5/8     | 7/8-14     | 1      | 0.468     | 2.552          | 1.312       | 5       |
| EQHF2101J512 | 5/8     | 1-1/16-1/2 | 1-1/16 | 0.500     | 2.731          | 1.491       | 5       |
| EQHF2121J512 | 3/4     | 1-1/16-1/2 | 1-1/8  | 0.625     | 2.793          | 1.543       | 5       |
| EQHF2121J516 | 3/4     | 1-5/16-12  | 1-3/8  | 0.625     | 2.837          | 1.587       | 5       |
| EQHF2161J516 | 1       | 1-5/16-12  | 1-5/8  | 0.844     | 3.146          | 1.676       | 5       |

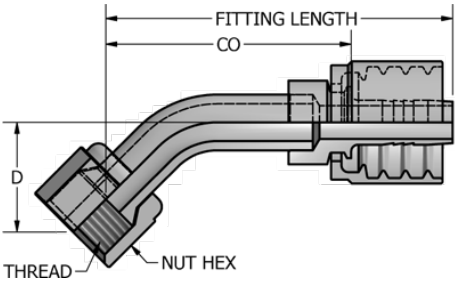
# 1J ONE-PIECE BITE THE WIRE CRIMP HYDRAULIC FITTINGS



## JIC SWIVEL FEMALE STEM

| Part #       | Hose ID | Thread      | Stem Hex | Nut Hex | Stem I.D. | Fitting Length | -CO- Cutoff | Pkg Qty |
|--------------|---------|-------------|----------|---------|-----------|----------------|-------------|---------|
| EQHF2041J603 | 1/4     | 3/8-24      | 5/8      | 1/2     | 0.156     | 2.063          | 1.073       | 10      |
| EQHF2041J604 | 1/4     | 7/16-20     | 5/8      | 9/16    | 0.156     | 2.075          | 1.070       | 10      |
| EQHF2041J605 | 1/4     | 1/2-20      | 5/8      | 11/16   | 0.156     | 2.130          | 1.125       | 10      |
| EQHF2041J606 | 1/4     | 9/16-18     | 5/8      | 3/4     | 0.156     | 2.115          | 1.120       | 10      |
| EQHF2061J604 | 3/8     | 7/16-20     | 11/16    | 9/16    | 0.171     | 2.064          | 1.074       | 10      |
| EQHF2061J606 | 3/8     | 9/16-18     | 11/16    | 3/4     | 0.296     | 2.110          | 1.105       | 10      |
| EQHF2061J608 | 3/8     | 3/4-16      | 11/16    | 7/8     | 0.296     | 2.245          | 1.245       | 5       |
| EQHF2061J610 | 3/8     | 7/8-14      | 13/16    | 1-1/16  | 0.296     | 2.345          | 1.345       | 5       |
| EQHF2081J606 | 1/2     | 9/16-18     | 13/16    | 3/4     | 0.296     | 2.420          | 1.165       | 5       |
| EQHF2081J608 | 1/2     | 3/4-16      | 13/16    | 7/8     | 0.406     | 2.550          | 1.310       | 5       |
| EQHF2081J610 | 1/2     | 7/8-14      | 13/16    | 1-1/16  | 0.406     | 2.610          | 1.370       | 5       |
| EQHF2081J612 | 1/2     | 1-1/16 - 12 | 1        | 1-1/4   | 0.406     | 2.735          | 1.505       | 5       |
| EQHF2101J610 | 5/8     | 7/8-14      | 1        | 1-1/16  | 0.500     | 2.645          | 1.405       | 5       |
| EQHF2101J612 | 5/8     | 1-1/16 - 12 | 1        | 1-1/4   | 0.500     | 2.735          | 1.485       | 5       |
| EQHF2121J610 | 3/4     | 7/8-14      | 1-1/16   | 1-1/16  | 0.500     | 2.745          | 1.490       | 5       |
| EQHF2121J612 | 3/4     | 1-1/16 - 12 | 1-1/16   | 1-1/4   | 0.625     | 2.810          | 1.570       | 5       |
| EQHF2121J616 | 3/4     | 1-5/16 - 12 | 1-1/4    | 1-1/2   | 0.625     | 2.920          | 1.700       | 5       |
| EQHF2161J612 | 1       | 1-1/16 - 12 | 1-3/8    | 1-1/4   | 0.718     | 3.040          | 1.580       | 5       |
| EQHF2161J616 | 1       | 1-5/16 - 12 | 1-3/8    | 1-1/2   | 0.844     | 3.175          | 1.720       | 5       |

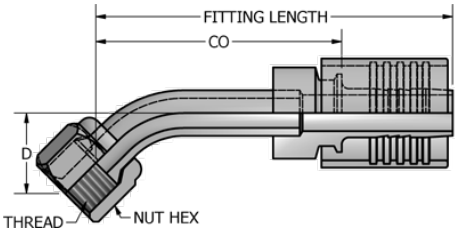
1J ONE-PIECE BITE THE WIRE CRIMP HYDRAULIC FITTINGS



JIC 45° SWIVEL FEMALE STEM

MEDIUM DROP

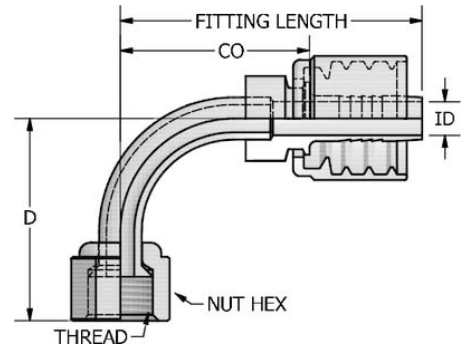
| Part #          | Hose ID | Thread      | Hex   | -D- Drop | Fitting Length | -CO- Cutoff | Pkg Qty |
|-----------------|---------|-------------|-------|----------|----------------|-------------|---------|
| EQHF2041JMCS684 | 1/4     | 7/16-20     | 9/16  | 0.470    | 2.685          | 1.695       | 10      |
| EQHF2041JMCS686 | 1/4     | 9/16-18     | 11/16 | 0.590    | 3.005          | 2.015       | 10      |
| EQHF2061JMCS686 | 3/8     | 9/16-18     | 11/16 | 0.590    | 3.005          | 2.015       | 10      |
| EQHF2081JMCS688 | 1/2     | 3/4-16      | 7/8   | 0.690    | 3.553          | 2.303       | 5       |
| EQHF2081JMCS690 | 1/2     | 7/8-14      | 1     | 0.780    | 3.853          | 2.603       | 5       |
| EQHF2101JMCS690 | 5/8     | 7/8-14      | 1     | 0.780    | 3.865          | 2.620       | 5       |
| EQHF2121JMCS690 | 3/4     | 7/8-14      | 1     | 0.780    | 3.890          | 2.640       | 5       |
| EQHF2121JMCS692 | 3/4     | 1-1/16 - 12 | 1-1/4 | 1.060    | 4.145          | 2.895       | 5       |



SHORT DROP

| Part #          | Hose ID | Thread      | Hex   | -D- Drop | Fitting Length | -CO- Cutoff | Pkg Qty |
|-----------------|---------|-------------|-------|----------|----------------|-------------|---------|
| EQHF2041JSCS684 | 1/4     | 7/16-20     | 9/16  | 0.433    | 2.494          | 1.504       | 10      |
| EQHF2061JSCS686 | 3/8     | 9/16-18     | 3/4   | 0.472    | 2.565          | 1.575       | -       |
| EQHF2081JSCS688 | 1/2     | 3/4-16      | 7/8   | 0.590    | 2.995          | 1.745       | 5       |
| EQHF2121JSCS692 | 3/4     | 1-1/16 - 12 | 1-1/4 | 0.827    | 3.821          | 2.571       | 5       |
| EQHF2161JSCS696 | 1       | 1-5/16 - 12 | 1-1/2 | 0.945    | 4.020          | 2.550       | 5       |

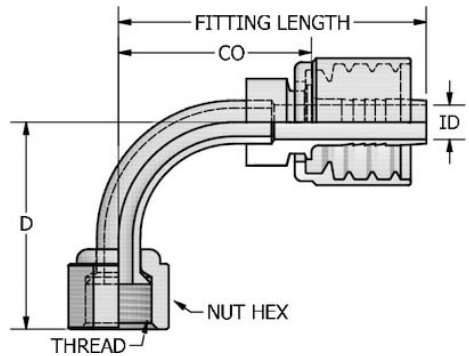
# 1J ONE-PIECE BITE THE WIRE CRIMP HYDRAULIC FITTINGS



## JIC 90° SWIVEL FEMALE STEM

### LONG DROP

| Part #          | Hose ID | Thread      | Hex   | -D- Drop | Fitting Length | -CO- Cutoff | Pkg Qty |
|-----------------|---------|-------------|-------|----------|----------------|-------------|---------|
| EQHF2041JLCS664 | 1/4     | 7/16-20     | 9/16  | 1.811    | 2.415          | 1.425       | 10      |
| EQHF2061JLCS666 | 3/8     | 9/16-18     | 11/16 | 2.126    | 2.655          | 1.670       | 10      |
| EQHF2061JLCS676 | 3/8     | 9/16-18     | 11/16 | 2.126    | 2.655          | 1.670       | 10      |
| EQHF2081JLCS668 | 1/2     | 3/4-16      | 7/8   | 2.520    | 3.073          | 1.823       | 10      |
| EQHF2121JLCS672 | 3/4     | 1-1/16 - 12 | 1-1/4 | 3.780    | 4.005          | 2.755       | 5       |

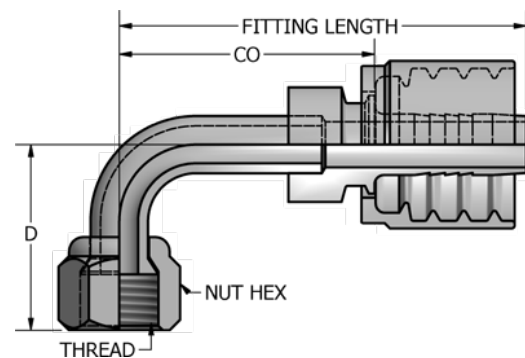


### MEDIUM DROP

| Part #          | Hose ID | Thread      | Hex   | -D- Drop | Fitting Length | -CO- Cutoff | Pkg Qty |
|-----------------|---------|-------------|-------|----------|----------------|-------------|---------|
| EQHF2041JMCS664 | 1/4     | 7/16-20     | 9/16  | 1.260    | 2.415          | 1.425       | 10      |
| EQHF2061JMCS666 | 3/8     | 9/16-18     | 11/16 | 1.496    | 2.655          | 1.665       | 5       |
| EQHF2061JMCS668 | 3/8     | 3/4-16      | 7/8   | 1.614    | 2.875          | 1.885       | 5       |
| EQHF2081JMCS668 | 1/2     | 3/4-16      | 7/8   | 1.614    | 3.073          | 1.823       | 5       |
| EQHF2081JMCS670 | 1/2     | 7/8-14      | 1     | 1.850    | 3.373          | 2.123       | 5       |
| EQHF2101JMCS670 | 5/8     | 7/8-14      | 1     | 1.850    | 3.385          | 2.135       | 5       |
| EQHF2121JMCS672 | 3/4     | 1-1/16 - 12 | 1-1/4 | 2.283    | 4.005          | 2.755       | -       |
| EQHF2161JMCS676 | 1       | 1-5/16 - 12 | 1-3/8 | 2.795    | 4.720          | 3.250       | 3       |

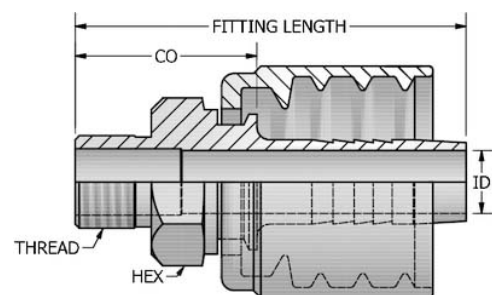


# 1J ONE-PIECE BITE THE WIRE CRIMP HYDRAULIC FITTINGS



## SHORT DROP

| Part #          | Hose ID | Thread      | Hex   | -D- Drop | Fitting Length | -CO- Cutoff | Pkg Qty |
|-----------------|---------|-------------|-------|----------|----------------|-------------|---------|
| EQHF2041JSCS664 | 1/4     | 7/16-20     | 9/16  | 0.827    | 2.415          | 1.425       | 10      |
| EQHF2041JSCS666 | 1/4     | 9/16-18     | 11/16 | 0.906    | 2.655          | 1.665       | 10      |
| EQHF2061JSCS666 | 3/8     | 9/16-18     | 3/4   | 0.906    | 2.655          | 1.665       | 10      |
| EQHF2061JSCS668 | 3/8     | 3/4-16      | 7/8   | 1.142    | 2.750          | 1.760       | 5       |
| EQHF2081JSCS666 | 1/2     | 9/16-18     | 11/16 | 0.906    | 2.990          | 1.740       | 5       |
| EQHF2081JSCS668 | 1/2     | 3/4-16      | 7/8   | 1.142    | 3.010          | 1.760       | 5       |
| EQHF2101JSCS670 | 5/8     | 7/8-14      | 1     | 1.256    | 3.385          | 2.135       | -       |
| EQHF2101JSCS672 | 5/8     | 1-1/16 - 12 | 1-1/4 | 1.890    | 3.250          | 2.000       | -       |
| EQHF2121JSCS672 | 3/4     | 1-1/16 - 12 | 1-1/4 | 1.890    | 4.005          | 2.755       | 5       |
| EQHF2121JSCS676 | 3/4     | 1-5/16 - 12 | 1-1/2 | 2.205    | 4.500          | 3.250       | 3       |
| EQHF2161JSCS676 | 1       | 1-5/16 - 12 | 1-1/2 | 2.205    | 4.720          | 3.250       | 3       |

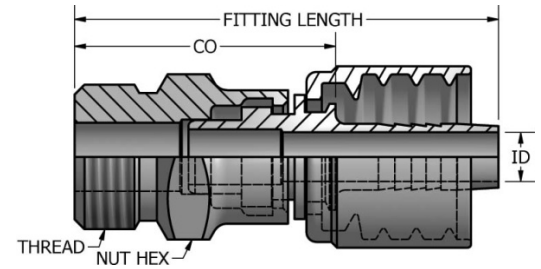


## ORB SOLID MALE STEM

| Part #       | Hose ID | Thread      | Hex   | Stem I.D. | Fitting Length | -CO- Cutoff | Pkg Qty |
|--------------|---------|-------------|-------|-----------|----------------|-------------|---------|
| EQHF2041J704 | 1/4     | 7/16-20     | 5/8   | 0.156     | 1.817          | 0.827       | 10      |
| EQHF2041J706 | 1/4     | 9/16-18     | 11/16 | 0.156     | 1.849          | 0.859       | 10      |
| EQHF2061J706 | 3/8     | 9/16-18     | 3/4   | 0.296     | 1.943          | 0.953       | 10      |
| EQHF2061J708 | 3/8     | 3/4-16      | 7/8   | 0.296     | 2.017          | 1.027       | 5       |
| EQHF2061J710 | 3/8     | 7/8-14      | 1     | 0.296     | 2.052          | 1.062       | 5       |
| EQHF2081J708 | 1/2     | 3/4-16      | 7/8   | 0.406     | 2.240          | 1.000       | 5       |
| EQHF2081J710 | 1/2     | 7/8-14      | 1     | 0.406     | 2.312          | 1.062       | 5       |
| EQHF2081J712 | 1/2     | 1-1/16 - 12 | 1-1/4 | 0.406     | 2.427          | 1.187       | 3       |
| EQHF2101J710 | 5/8     | 7/8-14      | 1     | 0.500     | 2.518          | 1.278       | 5       |
| EQHF2101J712 | 5/8     | 1-1/16 - 12 | 1-1/4 | 0.500     | 2.468          | 1.218       | 5       |
| EQHF2121J712 | 3/4     | 1-1/16 - 12 | 1-1/4 | 0.625     | 1.520          | 1.270       | 5       |
| EQHF2161J716 | 1       | 1-5/16 - 12 | 1-1/2 | 0.844     | 2.829          | 1.359       | 3       |

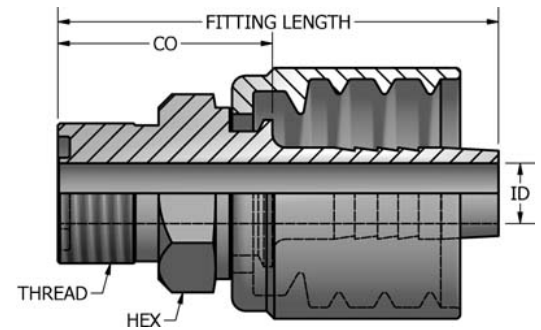
# 1J ONE-PIECE BITE THE WIRE CRIMP HYDRAULIC FITTINGS

## ORB SWIVEL MALE STEM



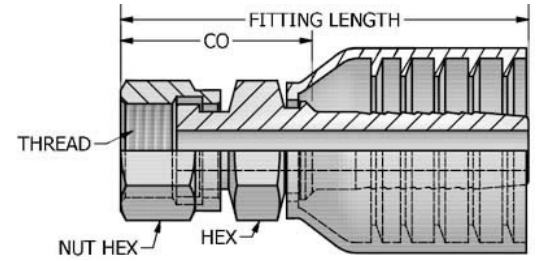
| Part #       | Hose ID | Thread  | Nut Hex | Stem I.D. | Fitting Length | -CO- Cutoff | Pkg Qty |
|--------------|---------|---------|---------|-----------|----------------|-------------|---------|
| EQHF2041J804 | 1/4     | 7/16-20 | 11/16   | 0.156     | 2.340          | 1.340       | 10      |
| EQHF2061J806 | 3/8     | 9/16-18 | 11/16   | 0.296     | 2.400          | 1.405       | 10      |
| EQHF2081J808 | 1/2     | 3/4-16  | 1       | 0.406     | 2.730          | 1.500       | 5       |
| EQHF2081J810 | 1/2     | 7/8-14  | 1       | 0.406     | 2.050          | 0.810       | 5       |
| EQHF2101J810 | 5/8     | 7/8-14  | 1       | 0.500     | 2.775          | 1.535       | 5       |

## ORFS SOLID MALE STEM



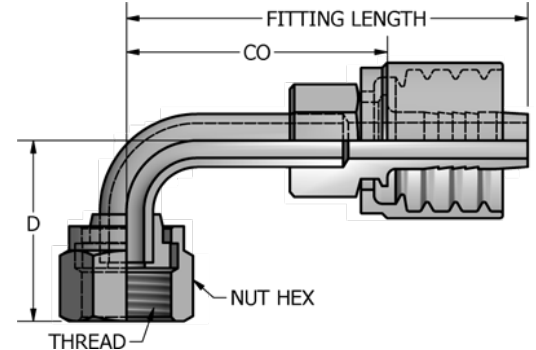
| Part #        | Hose ID | Thread      | Hex    | Stem I.D. | Fitting Length | -CO- Cutoff | Pkg Qty |
|---------------|---------|-------------|--------|-----------|----------------|-------------|---------|
| EQHF2041JFS04 | 1/4     | 9/16-18     | 5/8    | 0.156     | 1.844          | 0.850       | 10      |
| EQHF2061JFS06 | 3/8     | 11/16-16    | 3/4    | 0.265     | 1.930          | 0.940       | 10      |
| EQHF2081JFS08 | 1/2     | 13/16-16    | 7/8    | 0.375     | 2.316          | 1.066       | 5       |
| EQHF2101JFS10 | 5/8     | 1-14        | 1-1/16 | 0.482     | 2.484          | 1.235       | 5       |
| EQHF2121JFS12 | 3/4     | 1-3/16 - 12 | 1-1/4  | 0.609     | 3.201          | 1.345       | 5       |
| EQHF2161JFS16 | 1       | 1-7/16 - 12 | 1-1/2  | 0.812     | 3.504          | 1.455       | 3       |

# 1J ONE-PIECE BITE THE WIRE CRIMP HYDRAULIC FITTINGS



## ORFS SWIVEL FEMALE STEM

| Part #         | Hose ID | Thread      | Nut Hex | -D- Drop | Fitting Length | -CO- Cutoff | Pkg Qty |
|----------------|---------|-------------|---------|----------|----------------|-------------|---------|
| EQHF2041JFSX04 | 1/4     | 9/16-18     | 5/8     | 11/16    | 1.782          | 0.792       | 10      |
| EQHF2061JFSX04 | 3/8     | 9/16-18     | 11/16   | 11/16    | 1.782          | 0.792       | 10      |
| EQHF2061JFSX06 | 3/8     | 11/16-16    | 11/16   | 13/16    | 1.807          | 0.817       | 10      |
| EQHF2061JFSX08 | 3/8     | 13/16-16    | 3/4     | 15/16    | 1.844          | 0.854       | 5       |
| EQHF2081JFSX08 | 1/2     | 13/16-16    | 13/16   | 15/16    | 2.142          | 0.902       | 5       |
| EQHF2081JFSX10 | 1/2     | 1-14        | 7/8     | 1-1/8    | 2.159          | 0.919       | 5       |
| EQHF2101JFSX08 | 5/8     | 13/16-16    | -       | -        | -              | -           | 5       |
| EQHF2101JFSX10 | 5/8     | 1-14        | 1       | 1-1/8    | 2.207          | 0.967       | 5       |
| EQHF2121JFSX12 | 3/4     | 1-3/16 - 12 | 1-1/16  | 1-3/8    | 2.887          | 1.032       | 5       |
| EQHF2161JFSX16 | 1       | 1-7/16 - 12 | 1-3/8   | 1-5/8    | 3.243          | 1.193       | 3       |

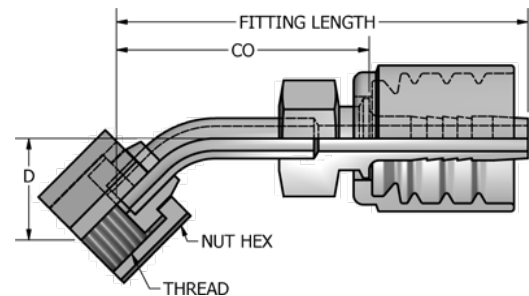


## ORFS 90° SWIVEL FEMALE STEM

### SHORT DROP

| Part #          | Hose ID | Thread      | Nut Hex | -D- Drop | Fitting Length | -CO- Cutoff | Pkg Qty |
|-----------------|---------|-------------|---------|----------|----------------|-------------|---------|
| EQHF2041JFSXA24 | 1/4     | 9/16-18     | 11/16   | 0.820    | 2.505          | 1.550       | 10      |
| EQHF2061JFSXA26 | 3/8     | 11/16-16    | 13/16   | 0.900    | 2.830          | 1.840       | 10      |
| EQHF2081JFSXA28 | 1/2     | 13/16-16    | 15/16   | 1.150    | 2.340          | 2.215       | 5       |
| EQHF2101JFSXA30 | 5/8     | 1-14        | 1-1/8   | 1.490    | 3.480          | 2.250       | 5       |
| EQHF2121JFSXA32 | 3/4     | 1-3/16 - 12 | 1-3/8   | 1.880    | 4.705          | 2.850       | 5       |
| EQHF2161JFSXA36 | 1       | 1-7/16 - 12 | 1-5/8   | 2.200    | 5.875          | 3.825       | 3       |

# 1J ONE-PIECE BITE THE WIRE CRIMP HYDRAULIC FITTINGS, HYDRAULIC HOSE



## ORFS 45° SWIVEL FEMALE STEM

### SHORT DROP

| Part #          | Hose ID | Thread      | Nut Hex | -D- Drop | Fitting Length | -CO- Cutoff | Pkg Qty |
|-----------------|---------|-------------|---------|----------|----------------|-------------|---------|
| EQHF2041JFSXL64 | 1/4     | 9/16-18     | 11/16   | 0.410    | 2.530          | 1.575       | 10      |
| EQHF2061JFSXL66 | 3/8     | 11/16-16    | 13/16   | 0.430    | 2.830          | 1.840       | 10      |
| EQHF2081JFSXL68 | 1/2     | 13/16-16    | 15/16   | 0.590    | 3.430          | 2.190       | 5       |
| EQHF2101JFSXL70 | 5/8     | 1-14        | 1-1/8   | 0.650    | 3.830          | 2.590       | 5       |
| EQHF2121JFSXL72 | 3/4     | 1-3/16 - 12 | 1-3/8   | 0.830    | 4.525          | 2.670       | 5       |
| EQHF2161JFSXL76 | 1       | 1-7/16 - 12 | 1-5/8   | 1.120    | 4.603          | 3.133       | 3       |



## HOSE MENDER

| Part #         | Hose ID | Round | Fitting Length | -CO- Cutoff | Pkg Qty |
|----------------|---------|-------|----------------|-------------|---------|
| EQHF2041JHMT04 | 1/4     | 5/8   | 2.479          | 0.499       | 10      |
| EQHF2061JHMT06 | 3/8     | 3/4   | 2.479          | 0.499       | 10      |
| EQHF2081JHMT08 | 1/2     | 7/8   | 2.999          | 0.499       | 10      |
| EQHF2121JHMT12 | 1/2     | 7/8   | 2.999          | 0.499       | 10      |

# HYDRAULIC HOSE

## SAE 100R2 WG 2-WIRE HYDRAULIC HOSE

| Part #       | Size | PSI  |
|--------------|------|------|
| EQHHA10212RL | 3/4  | 3100 |
| EQHHA10216RL | 1    | 2400 |



# HYDRAULIC HOSE, BRASS PIPE FITTINGS

## SAE 100R16 WG (HYDRA-LITE) 2-WIRE HYDRAULIC HOSE

| Part #     | Size | PSI  |
|------------|------|------|
| EQHHA15004 | 1/4  | 5800 |
| EQHHA15006 | 3/8  | 4800 |
| EQHHA15008 | 1/2  | 4000 |
| EQHHA15012 | 3/4  | 3100 |
| EQHHA15016 | 1    | 2400 |



## SAE 100R16 IMPORT 2-WIRE HYDRAULIC HOSE

| Part #     | Size | PSI  |
|------------|------|------|
| EQHHS15004 | 1/4  | 5800 |
| EQHHS15006 | 3/8  | 4800 |
| EQHHS15008 | 1/2  | 4000 |
| EQHHS15012 | 3/4  | 3100 |
| EQHHS15016 | 1    | 2400 |



# BRASS PIPE FITTINGS

Brass Pipe Fittings are for plumbing and industrial applications. They have a maximum working pressure of 1000 PSI and work in temperature ranges of -65°F to 250°F.

## BRASS CLOSE NIPPLES

| Part #    | Size | Length | Pkg Qty |
|-----------|------|--------|---------|
| EQBF28131 | 1/8  | 0.75   | 10      |
| EQBF28132 | 1/4  | 0.88   | 10      |
| EQBF28133 | 3/8  | 1.00   | 10      |
| EQBF28134 | 1/2  | 1.12   | 5       |
| EQBF28135 | 3/4  | 1.31   | 5       |



## BRASS NIPPLES

| Part #    | Size        | Pkg Qty |
|-----------|-------------|---------|
| EQBF28141 | 1/8 x 2     | 10      |
| EQBF28143 | 1/8 x 3     | 10      |
| EQBF28145 | 1/4 x 2     | 10      |
| EQBF28147 | 1/4 x 3     | 10      |
| EQBF28148 | 3/8 x 1-1/2 | 5       |
| EQBF28149 | 3/8 x 2     | 10      |
| EQBF28151 | 3/8 x 2     | 10      |
| EQBF28153 | 1/2 x 2     | 5       |
| EQBF28155 | 1/2 x 3     | 5       |



## BRASS HEX NIPPLES

| Part #    | Size | Length | Hex   | Pkg Qty |
|-----------|------|--------|-------|---------|
| EQBF28211 | 1/8  | 0.97   | 7/16  | 10      |
| EQBF28212 | 1/4  | 1.38   | 9/16  | 10      |
| EQBF28213 | 3/8  | 1.41   | 11/16 | 10      |
| EQBF28214 | 1/2  | 1.81   | 7/8   | 5       |
| EQBF28215 | 3/4  | 1.96   | 1-1/8 | 5       |
| EQBF28216 | 1    | 2.30   | 1-3/8 | 5       |

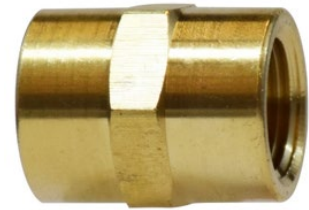


## BRASS REDUCING HEX NIPPLES

| Part #     | Size      | Length | Hex   | Pkg Qty | Part #     | Size      | Length | Hex    | Pkg Qty |
|------------|-----------|--------|-------|---------|------------|-----------|--------|--------|---------|
| EQBF28220L | 1/4 x 1/8 | 1.00   | 9/16  | 10      | EQBF28223L | 1/2 x 1/4 | 1.34   | 7/8    | 5       |
| EQBF28221  | 3/8 x 1/8 | 1.22   | 11/16 | 10      | EQBF28224  | 1/2 x 3/8 | 1.62   | 7/8    | 5       |
| EQBF28222  | 3/8 x 1/4 | 1.41   | 11/16 | 10      | EQBF28224L | 1/2 x 3/8 | 1.41   | 7/8    | 5       |
| EQBF28222L | 3/8 x 1/4 | 1.19   | 11/16 | 10      | EQBF28225  | 3/4 x 1/2 | 1.50   | 1-1/16 | 5       |
| EQBF28223  | 1/2 x 1/4 | 1.62   | 7/8   | 10      | EQBF28227  | 1 x 3/4   | 2.31   | 1-3/8  | 5       |

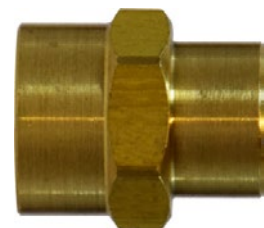
## BRASS COUPLINGS

| Part #     | Size | Length | Hex    | Pkg Qty |
|------------|------|--------|--------|---------|
| EQBF28058  | 1/8  | 0.75   | 7/16   | 10      |
| EQBF28058L | 1/8  | 0.88   | 1/2    | 10      |
| EQBF28059  | 1/4  | 1.12   | 3/4    | 10      |
| EQBF28059L | 1/4  | 0.88   | 5/8    | 10      |
| EQBF28060  | 3/8  | 1.12   | 1-1/4  | 10      |
| EQBF28060L | 3/8  | 1.00   | 13/16  | 10      |
| EQBF28061  | 1/2  | 1.50   | 1-1/16 | 5       |
| EQBF28061L | 1/2  | 1.19   | 15/16  | 5       |
| EQBF28062L | 3/4  | 1.19   | 1-1/14 | 5       |



## BRASS REDUCING COUPLINGS

| Part #     | Size      | Length | Hex   | Pkg Qty |
|------------|-----------|--------|-------|---------|
| EQBF28181L | 1/4 x 1/8 | 0.94   | 5/8   | 10      |
| EQBF28183L | 3/8 x 1/4 | 1.00   | 13/16 | 10      |
| EQBF28184L | 1/2 x 1/4 | 1.11   | 1     | 5       |
| EQBF28185L | 1/2 x 3/8 | 1.19   | 15/16 | 5       |



## BRASS PIPE FITTINGS



### BRASS REDUCER BUSHINGS

| Part #     | Size      | Length | Hex   | Pkg Qty |
|------------|-----------|--------|-------|---------|
| EQBF28102  | 1/4 x 1/8 | 0.75   | 9/16  | 10      |
| EQBF28102L | 1/4 x 1/8 | 0.62   | 9/16  | 10      |
| EQBF28103  | 3/8 x 1/8 | 0.75   | 11/16 | 10      |
| EQBF28104  | 3/8 x 1/4 | 0.75   | 3/4   | 10      |
| EQBF28104L | 3/8 x 1/4 | 0.69   | 11/16 | 10      |
| EQBF28105L | 1/2 x 1/8 | 0.81   | 13/16 | 5       |
| EQBF28106  | 1/2 x 1/4 | 1.00   | 7/8   | 5       |
| EQBF28106L | 1/2 x 1/4 | 0.81   | 13/16 | 5       |
| EQBF28107  | 1/2 x 3/8 | 1.00   | 7/8   | 5       |

| Part #     | Size      | Length | Hex    | Pkg Qty |
|------------|-----------|--------|--------|---------|
| EQBF28107L | 1/2 x 3/8 | 0.81   | 13/16  | 5       |
| EQBF28109L | 3/4 x 1/4 | 0.94   | 1-1/16 | 5       |
| EQBF28110L | 3/4 x 3/8 | 0.94   | 1-1/16 | 5       |
| EQBF28111  | 3/4 x 1/2 | 1.00   | 1-1/8  | 5       |
| EQBF28111L | 3/4 x 1/2 | 0.94   | 1-1/16 | 5       |
| EQBF28112  | 1 x 1/4   | 1.15   | 1-3/8  | 5       |
| EQBF28113  | 1 x 3/8   | 1.12   | 1-3/8  | 5       |
| EQBF28114  | 1 x 1/2   | 1.31   | 1-7/16 | 5       |
| EQBF28115  | 1 x 3/4   | 1.31   | 1-3/8  | 5       |



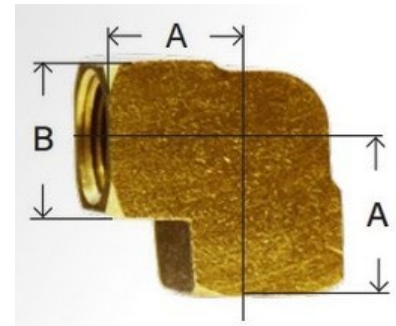
### BRASS ADAPTERS

| Part #     | Size (FIP x MIP) | Length | Hex    | Pkg Qty |
|------------|------------------|--------|--------|---------|
| EQBF28190  | 1/8 x 1/8        | 0.88   | 9/16   | 10      |
| EQBF28191L | 1/4 x 1/8        | 0.94   | 5/8    | 10      |
| EQBF28192L | 1/4 x 1/4        | 1.00   | 5/8    | 10      |
| EQBF28193L | 3/8 x 1/4        | 1.12   | 13/16  | 10      |
| EQBF28194L | 3/8 x 3/8        | 1.24   | 13/16  | 10      |
| EQBF28199  | 1/2 x 1/4        | 1.46   | 1-1/16 | 5       |

| Part #     | Size (FIP x MIP) | Length | Hex    | Pkg Qty |
|------------|------------------|--------|--------|---------|
| EQBF28195L | 1/2 x 3/8        | 1.19   | 15/16  | 5       |
| EQBF28196  | 1/2 x 1/2        | 1.66   | 1-1/16 | 5       |
| EQBF28207  | 3/4 x 3/8        | 1.59   | 1-1/4  | 5       |
| EQBF28208  | 3/4 x 1/2        | 1.69   | 1-3/8  | 5       |
| EQBF28209  | 3/4 x 3/4        | 1.69   | 1-3/8  | 5       |

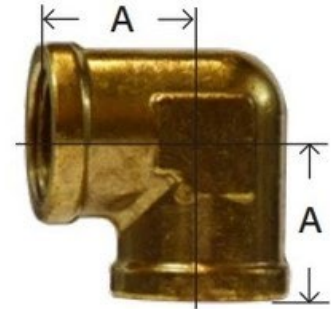
### BRASS 90° FEMALE ELBOW

| Part #    | Size | A    | B    | Pkg Qty |
|-----------|------|------|------|---------|
| EQBF28001 | 1/8  | 0.55 | 0.56 | 10      |
| EQBF28002 | 1/4  | 0.78 | 0.68 | 10      |
| EQBF28003 | 3/8  | 0.84 | 0.81 | 10      |
| EQBF28004 | 1/2  | 1.09 | 1.00 | 5       |
| EQBF28005 | 3/4  | 1.16 | 1.25 | 5       |



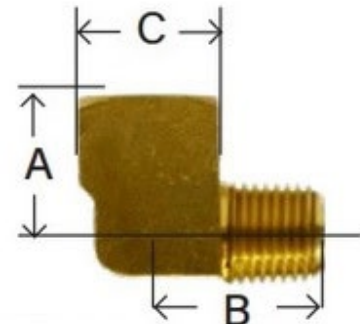
## BRASS 90° FORGED FEMALE REDUCING ELBOW

| Part #    | Size      | A    | Body Width | Pkg Qty |
|-----------|-----------|------|------------|---------|
| EQBF28014 | 1/4 x 1/8 | 0.72 | 0.69       | 10      |
| EQBF28015 | 3/8 x 1/8 | 0.81 | 0.81       | 10      |
| EQBF28016 | 1/2 x 3/8 | 1.00 | 1.00       | 5       |



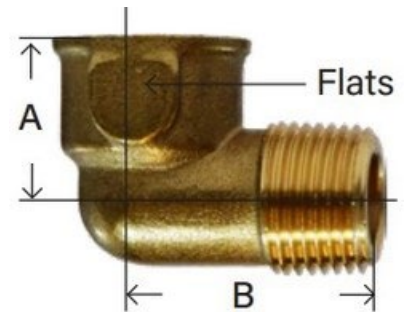
## BRASS 90° STREET ELBOW

| Part #     | Size | A    | B    | C    | Pkg Qty |
|------------|------|------|------|------|---------|
| EQBF28156  | 1/8  | 0.48 | 0.66 | 0.56 | 10      |
| EQBF28156S | 1/8  | 0.34 | 0.57 | 0.50 | 10      |
| EQBF28157  | 1/4  | 0.72 | 0.91 | 0.68 | 10      |
| EQBF28158  | 3/8  | 0.78 | 0.97 | 0.81 | 10      |
| EQBF28159  | 1/2  | 1.03 | 1.25 | 1.00 | 5       |
| EQBF28160  | 3/4  | 1.12 | 1.38 | 1.25 | 5       |



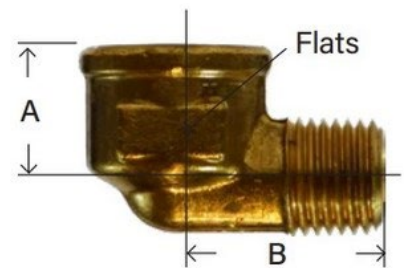
## BRASS 90° FORGED STREET ELBOWS

| Part #    | Size | A    | B    | Flats | Pkg Qty |
|-----------|------|------|------|-------|---------|
| EQBF28165 | 1/8  | 0.61 | 0.85 | 0.62  | 10      |
| EQBF28166 | 1/4  | 0.50 | 0.86 | 0.72  | 10      |
| EQBF28167 | 3/8  | 0.70 | 1.00 | 0.88  | 10      |
| EQBF28168 | 1/2  | 0.96 | 1.43 | 1.00  | 5       |
| EQBF28169 | 3/4  | 0.90 | 1.40 | 1.25  | 5       |



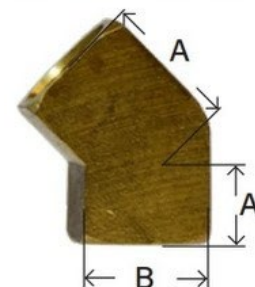
## BRASS 90° FORGED REDUCING STREET ELBOW

| Part #     | Size      | A    | B    | Flats | Pkg Qty |
|------------|-----------|------|------|-------|---------|
| EQBF28260  | 1/8 x 1/4 | 0.50 | 0.87 | 0.71  | 10      |
| EQBF28261B | 1/4 x 1/8 | 0.53 | 0.72 | 0.69  | 10      |
| EQBF28262  | 1/4 x 3/8 | 0.93 | 1.06 | 0.59  | 10      |
| EQBF28263  | 3/8 x 1/4 | 0.58 | 0.94 | 0.81  | 10      |
| EQBF28264  | 3/8 x 1/2 | 0.97 | 1.36 | 1     | 5       |



## BRASS 45° FEMALE ELBOW

| Part #     | Size | A    | B    | Pkg Qty |
|------------|------|------|------|---------|
| EQBF28018  | 1/8  | 0.45 | 0.56 | 10      |
| EQBF28019  | 1/4  | 0.66 | 0.68 | 10      |
| EQBF28020  | 3/8  | 0.69 | 0.81 | 10      |
| EQBF28021B | 1/2  | 0.94 | 1.00 | 5       |

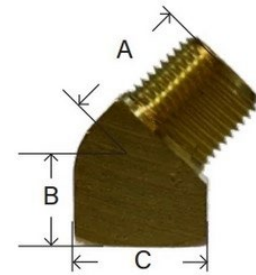




## BRASS PIPE FITTINGS

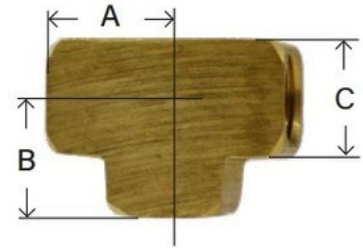
### BRASS 45° STREET ELBOW

| Part #    | Size | A    | B    | C    | Pkg Qty |
|-----------|------|------|------|------|---------|
| EQBF28230 | 1/8  | 0.50 | 0.38 | 0.56 | 10      |
| EQBF28231 | 1/4  | 0.72 | 0.56 | 0.68 | 10      |
| EQBF28232 | 3/8  | 0.78 | 0.56 | 0.81 | 10      |
| EQBF28233 | 1/2  | 1.00 | 0.75 | 1.00 | 5       |
| EQBF28234 | 3/4  | 1.06 | 0.75 | 1.25 | 5       |



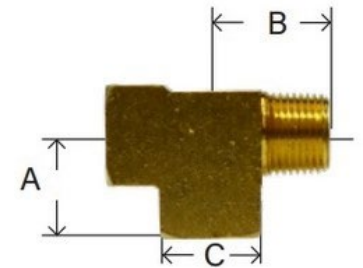
### BRASS TEE

| Part #    | Size | A    | B    | C    | Pkg Qty |
|-----------|------|------|------|------|---------|
| EQBF28024 | 1/8  | 0.55 | 0.55 | 0.56 | 10      |
| EQBF28025 | 1/4  | 0.78 | 0.78 | 0.68 | 10      |
| EQBF28026 | 3/8  | 0.84 | 0.84 | 0.81 | 10      |
| EQBF28027 | 1/2  | 1.09 | 1.09 | 1.00 | 5       |
| EQBF28028 | 3/4  | 1.16 | 1.16 | 1.25 | 5       |



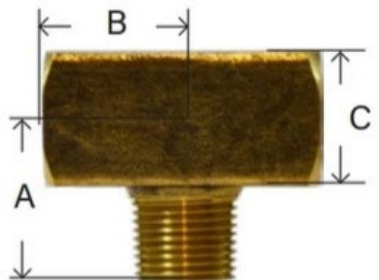
### BRASS STREET TEE

| Part #    | Size (F x M x F) | A    | B    | C    | Pkg Qty |
|-----------|------------------|------|------|------|---------|
| EQBF28245 | 1/8              | 0.55 | 0.66 | 0.56 | 10      |
| EQBF28246 | 1/4              | 0.78 | 0.91 | 0.68 | 10      |
| EQBF28247 | 3/8              | 0.84 | 0.97 | 0.81 | 10      |
| EQBF28248 | 1/2              | 1.09 | 1.25 | 1.00 | 5       |
| EQBF28249 | 3/4              | 1.16 | 1.39 | 1.25 | 5       |



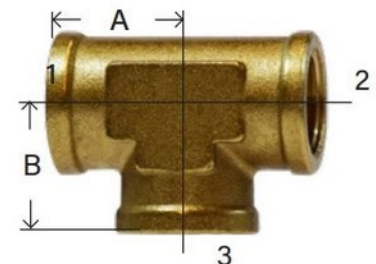
### BRASS BRANCH TEE

| Part #    | Size | A    | B    | C    | Pkg Qty |
|-----------|------|------|------|------|---------|
| EQBF28281 | 1/8  | 0.66 | 0.55 | 0.56 | 10      |
| EQBF28282 | 1/4  | 0.91 | 0.78 | 0.68 | 10      |
| EQBF28283 | 3/8  | 0.97 | 0.84 | 0.81 | 10      |
| EQBF28284 | 1/2  | 1.25 | 1.09 | 1.00 | 5       |
| EQBF28285 | 3/4  | 1.38 | 1.16 | 1.25 | 5       |



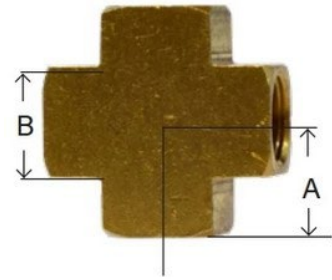
### BRASS UNION FORGED TEE

| Part #    | Size | A & B | Body Width | Pkg Qty |
|-----------|------|-------|------------|---------|
| EQBF28033 | 1/4  | 0.71  | 0.68       | 10      |
| EQBF28034 | 3/8  | 0.81  | 0.81       | 10      |
| EQBF28035 | 1/2  | 1.00  | 1.00       | 5       |
| EQBF28036 | 3/4  | 1.16  | 1.25       | 5       |
| EQBF28023 | 1    | 1.42  | 1.50       | 5       |



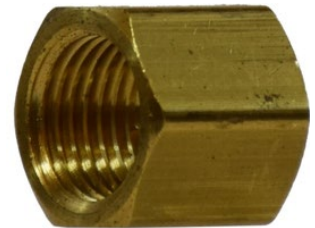
## BRASS CROSS

| Part #    | Size | Length | Width | Pkg Qty |
|-----------|------|--------|-------|---------|
| EQBF28041 | 1/8  | 1.10   | 0.56  | 10      |
| EQBF28042 | 1/4  | 1.56   | 0.68  | 10      |
| EQBF28043 | 3/8  | 1.68   | 0.81  | 10      |
| EQBF28044 | 1/2  | 2.18   | 1.00  | 5       |
| EQBF28045 | 3/4  | 2.32   | 1.25  | 5       |



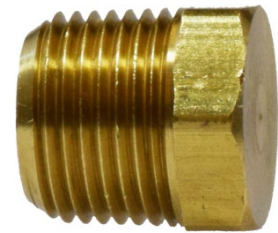
## BRASS HEX CAP

| Part #    | Size | Length | Hex   | Pkg Qty |
|-----------|------|--------|-------|---------|
| EQBF28075 | 1/8  | 0.47   | 9/16  | 10      |
| EQBF28076 | 1/4  | 0.60   | 11/16 | 10      |
| EQBF28077 | 3/8  | 0.69   | 13/16 | 10      |
| EQBF28078 | 1/2  | 0.78   | 15/16 | 5       |
| EQBF28079 | 3/4  | 0.94   | 1-1/4 | 5       |



## BRASS HEX PLUG

| Part #     | Size | Length | Hex    | Style | Pkg Qty |
|------------|------|--------|--------|-------|---------|
| EQBF28201  | 1/8  | 0.55   | 7/16   | CORED | 10      |
| EQBF28202  | 1/4  | 0.62   | 9/16   | CORED | 10      |
| EQBF28203  | 3/8  | 0.72   | 11/16  | CORED | 10      |
| EQBF28203S | 3/8  | 0.66   | 11/16  | SOLID | 10      |
| EQBF28204  | 1/2  | 0.81   | 7/8    | CORED | 5       |
| EQBF28205  | 3/4  | 0.94   | 1-1/16 | CORED | 5       |
| EQBF28206  | 1    | 1.16   | 1-3/8  | CORED | 5       |



## BRASS COUNTERSUNK HEX PLUGS

| Part #    | Size | Length | Hex   | Pkg Qty |
|-----------|------|--------|-------|---------|
| EQBF28093 | 1/8  | 0.30   | 3/16  | 10      |
| EQBF28094 | 1/4  | 0.45   | 1/4   | 10      |
| EQBF28095 | 3/8  | 0.45   | 5/16  | 10      |
| EQBF28096 | 1/2  | 0.61   | 25/64 | 5       |
| EQBF28097 | 3/4  | 0.62   | 9/16  | 5       |



## BRASS SQUARE PLUG

| Part #    | Size | Length | Square | Pkg Qty |
|-----------|------|--------|--------|---------|
| EQBF28084 | 1/8  | 0.58   | 17/64  | 10      |
| EQBF28085 | 1/4  | 0.80   | 3/8    | 10      |
| EQBF28086 | 3/8  | 0.80   | 7/16   | 10      |
| EQBF28087 | 1/2  | 1.07   | 9/16   | 5       |
| EQBF28088 | 3/4  | 1.09   | 5/8    | 5       |
| EQBF28089 | 1    | 1.24   | 13/16  | 5       |

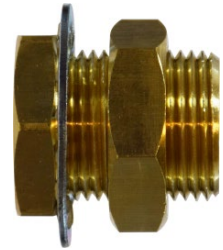


## BRASS BULKHEAD FITTINGS, BRASS PUSH-IN FITTINGS

### BRASS BULKHEAD FITTINGS

#### BRASS ANCHOR COUPLINGS - 1200 PSI

| Part #    | Size (F x F) | Length | Pkg Qty |
|-----------|--------------|--------|---------|
| EQBF28302 | 1/4          | 1-1/2  | 10      |
| EQBF28303 | 3/8          | 1-5/16 | 10      |
| EQBF28304 | 1/2          | 1-1/2  | 5       |



| Part #    | Size (F x M) | Length  | Pkg Qty |
|-----------|--------------|---------|---------|
| EQBF28313 | 1/4 x 1/2    | 2-7/8   | 5       |
| EQBF28318 | 3/8 x 1/2    | 1-11/16 | 5       |
| EQBF28319 | 3/8 x 1/2    | 1-29/32 | 5       |
| EQBF28320 | 1/4 x 1/2    | 3-15/16 | 5       |



### BRASS PUSH-IN FITTINGS

Push-In Tube Fittings offer cost savings and easy assembly. They have a maximum working pressure equal to the plastic tubing used and work between -10°F and 200°F.

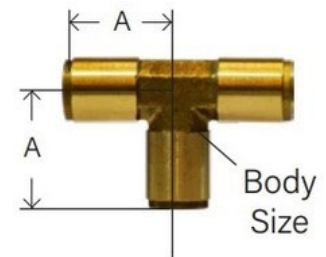
#### BRASS PUSH-IN UNIONS

| Part #    | Size | Length | OD   | Pkg Qty |
|-----------|------|--------|------|---------|
| EQBF20019 | 1/4  | 1.50   | 0.44 | 10      |
| EQBF20020 | 3/8  | 1.44   | 0.56 | 10      |
| EQBF20021 | 1/2  | 1.63   | 0.81 | 10      |



#### BRASS PUSH-IN UNION TEES

| Part #    | Size | A    | Body | Pkg Qty |
|-----------|------|------|------|---------|
| EQBF20025 | 1/8  | 0.65 | 0.31 | 10      |
| EQBF20027 | 3/16 | 0.75 | 0.37 | 10      |
| EQBF20028 | 1/4  | 0.92 | 0.37 | 10      |
| EQBF20029 | 3/8  | 0.98 | 0.50 | 10      |



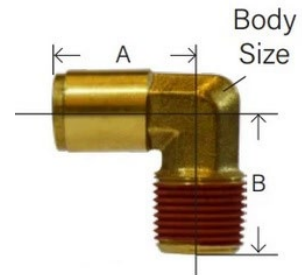
## BRASS PUSH-IN MALE ADAPTERS

| Part #    | Tube OD x NPT | Length | Hex   | Pkg Qty |
|-----------|---------------|--------|-------|---------|
| EQBF20054 | 1/4 x 1/8     | 0.93   | 7/16  | 10      |
| EQBF20055 | 1/4 x 1/4     | 0.93   | 9/16  | 10      |
| EQBF20056 | 1/4 x 3/8     | 0.94   | 11/16 | 10      |
| EQBF20058 | 3/8 x 1/4     | 1.11   | 9/16  | 10      |
| EQBF20059 | 3/8 x 3/8     | 1.02   | 11/16 | 10      |
| EQBF20060 | 1/2 x 1/4     | 1.36   | 13/16 | 5       |
| EQBF20062 | 3/8 x 1/2     | 1.02   | 7/8   | 5       |
| EQBF20063 | 1/2 x 1/2     | 1.23   | 7/8   | 5       |



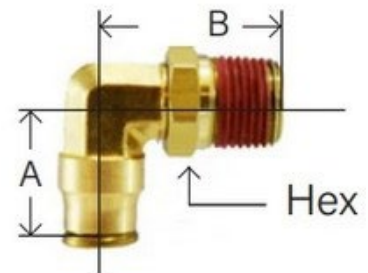
## BRASS PUSH-IN 90° MALE ELBOWS

| Part #    | Size      | A    | B    | Body Size | Pkg Qty |
|-----------|-----------|------|------|-----------|---------|
| EQBF20065 | 1/8 x 1/8 | 0.69 | 0.69 | 0.31      | 10      |
| EQBF20068 | 1/4 x 1/8 | 0.89 | 0.75 | 0.37      | 10      |
| EQBF20069 | 1/4 x 1/4 | 0.95 | 0.96 | 0.37      | 10      |
| EQBF20073 | 3/8 x 3/8 | 0.97 | 0.98 | 0.50      | 10      |
| EQBF20064 | 1/2 x 1/2 | 1.16 | 1.66 | .062      | 5       |



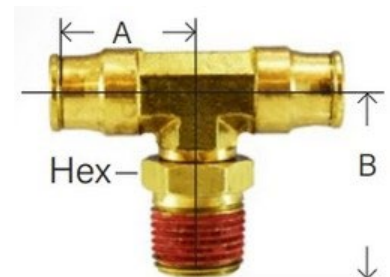
## BRASS PUSH-IN 90° SWIVEL MALE ELBOWS

| Part #    | Size      | A    | B    | Hex   | Pkg Qty |
|-----------|-----------|------|------|-------|---------|
| EQBF20082 | 1/4 x 1/4 | 0.90 | 0.99 | 9/16  | 10      |
| EQBF20084 | 3/8 x 3/8 | 1.00 | 1.24 | 11/16 | 10      |
| EQBF20092 | 1/2 x 1/2 | 1.16 | 1.51 | 7/8   | 5       |



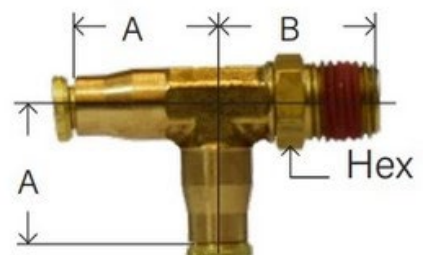
## BRASS PUSH-IN SWIVEL MALE BRANCH TEES

| Part #    | Size      | A    | B    | Hex   | Pkg Qty |
|-----------|-----------|------|------|-------|---------|
| EQBF20107 | 3/8 x 1/4 | 0.96 | 1.14 | 1/2   | 10      |
| EQBF20108 | 3/8 x 3/8 | 0.96 | 1.23 | 11/16 | 10      |



## BRASS PUSH-IN SWIVEL MALE RUN TEES

| Part #    | Size      | A    | B    | Hex  | Pkg Qty |
|-----------|-----------|------|------|------|---------|
| EQBF20164 | 3/8 x 1/4 | 0.94 | 1.19 | 9/16 | 10      |
| EQBF20165 | 3/8 x 3/8 | 0.96 | 1.24 | 1/2  | 10      |



# BRASS COMPRESSION FITTINGS

## BRASS COMPRESSION FITTINGS

Compression Fittings are for use with copper, aluminum, and thermoplastic tubing. They are for temperature range -65°F to 200°F and have a fair resistance to vibration. Not recommended for use with steel tubing.

## CHART FOR WORKING PRESSURES AND THREAD SIZE

| Tube OD          | 3/16   | 1/4     | 5/16   | 3/8     | 1/2      | 5/8      | 3/4 |
|------------------|--------|---------|--------|---------|----------|----------|-----|
| THREAD SIZE      | 3/8-24 | 7/16-24 | 1/2-24 | 9/16-24 | 11/16-20 | 13/16-18 | 1-8 |
| WORKING PRESSURE | 400    | 300     | 300    | 200     | 200      | 150      | 100 |

### BRASS COMPRESSION SLEEVE

| Part #    | Size | Length | OD   | Pkg Qty |
|-----------|------|--------|------|---------|
| EQBF18001 | 1/8  | 0.19   | 0.19 | 10      |
| EQBF18002 | 3/16 | 0.22   | 0.27 | 10      |
| EQBF18003 | 1/4  | 0.25   | 0.34 | 10      |
| EQBF18004 | 5/16 | 0.25   | 0.41 | 10      |
| EQBF18005 | 3/8  | 0.25   | 0.47 | 10      |
| EQBF18007 | 1/2  | 0.38   | 0.59 | 5       |
| EQBF18008 | 5/8  | 0.38   | 0.71 | 5       |
| EQBF18009 | 3/4  | 0.44   | 0.87 | 5       |



### BRASS COMPRESSION NUT

| Part #    | Size | Thread   | Length | Hex   | Pkg Qty |
|-----------|------|----------|--------|-------|---------|
| EQBF18033 | 1/8  | 5/16-24  | 0.38   | 3/8   | 10      |
| EQBF18036 | 5/16 | 1/2-24   | 0.44   | 9/16  | 10      |
| EQBF18037 | 3/8  | 9/16-24  | 0.47   | 5/8   | 10      |
| EQBF18039 | 1/2  | 11/16-20 | 0.62   | 13/16 | 5       |



### BRASS COMPRESSION UNION

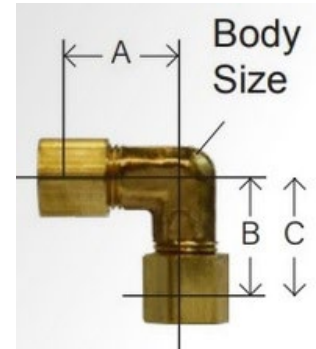
| Part #     | Size | Length | Hex  | Pkg Qty |
|------------|------|--------|------|---------|
| EQBF18063  | 3/16 | 0.75   | 3/8  | 10      |
| EQBF18064L | 1/4  | 0.79   | 7/16 | 10      |
| EQBF18066  | 3/8  | 0.98   | 9/16 | 10      |



HOSES & FITTINGS

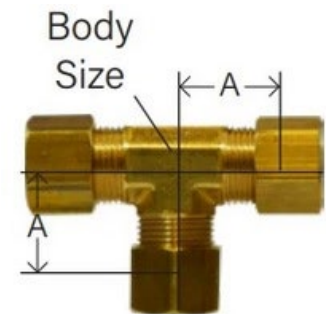
## BRASS COMPRESSION UNION 90° ELBOW

| Part #    | Size | A    | Body Size | Pkg Qty |
|-----------|------|------|-----------|---------|
| EQBF18123 | 3/16 | 0.59 | 0.36      | 10      |
| EQBF18124 | 1/4  | 0.59 | 0.36      | 10      |
| EQBF18125 | 5/16 | 0.59 | 0.36      | 10      |
| EQBF18126 | 3/8  | 0.59 | 0.36      | 10      |



## BRASS COMPRESSION UNION TEE

| Part #    | Size | A    | Body Size | Pkg Qty |
|-----------|------|------|-----------|---------|
| EQBF18102 | 3/16 | 0.59 | 0.36      | 10      |
| EQBF18104 | 5/16 | 0.72 | 0.50      | 10      |
| EQBF18105 | 3/8  | 0.75 | 0.50      | 10      |



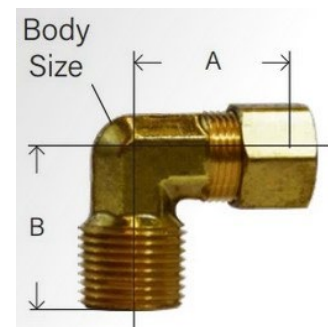
## BRASS COMPRESSION MALE ADAPTER

| Part #     | Size (Comp x MIP) | Length | Hex   | Pkg Qty |
|------------|-------------------|--------|-------|---------|
| EQBF18180L | 1/4 x 1/4         | 0.94   | 9/16  | 10      |
| EQBF18188L | 3/8 x 1/4         | 1.03   | 9/16  | 10      |
| EQBF18189L | 3/8 x 3/8         | 1.09   | 11/16 | 10      |



## BRASS COMPRESSION 90° MALE ELBOW

| Part #    | Size      | A    | B    | Body Size | Pkg Qty |
|-----------|-----------|------|------|-----------|---------|
| EQBF18220 | 1/8 x 1/8 | 0.59 | 0.75 | 0.34      | 10      |
| EQBF18225 | 1/4 x 1/4 | 0.65 | 0.94 | 0.36      | 10      |
| EQBF18233 | 3/8 x 1/4 | 0.75 | 0.82 | 0.46      | 10      |
| EQBF18234 | 3/8 x 3/8 | 0.81 | 0.94 | 0.46      | 10      |
| EQBF18237 | 1/2 x 3/8 | 0.88 | 1.03 | 0.56      | 5       |
| EQBF18238 | 1/2 x 1/2 | 0.94 | 1.13 | 0.59      | 5       |



## BRASS HOSE BARB FITTINGS

### BRASS HOSE BARB FITTINGS

These hose barb fittings are intended for use with a hose clamp or crimped ferrule. They are rated for a maximum 150 PSI and work from -40° to 160°F.

### HOSE CLAMP POSITION

| Hose Size | Distance from Stop Ring |
|-----------|-------------------------|
| 1/4       | 1/4                     |
| 5/16      | 1/4                     |
| 3/8       | 1/8                     |
| 1/2       | 1/8                     |
| 5/8       | 1/8                     |
| 3/4       | 1/8                     |



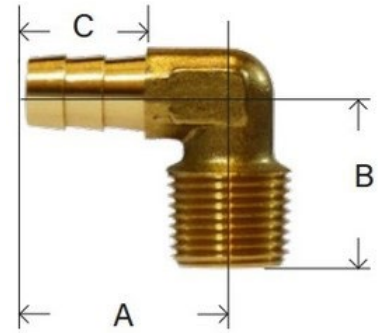
### BRASS HOSE BARB MALE ADAPTER

| Part #    | Size (Hose x MIP) | Barb Length | Length | Hex    | Pkg Qty |
|-----------|-------------------|-------------|--------|--------|---------|
| EQBF32001 | 1/8 x 1/8         | 0.69        | 1.19   | 7/16   | 10      |
| EQBF32002 | 3/16 x 1/8        | 0.75        | 1.19   | 7/16   | 10      |
| EQBF32003 | 3/16 x 1/4        | 0.69        | 1.37   | 9/16   | 10      |
| EQBF32004 | 1/4 x 1/8         | 0.97        | 1.47   | 7/16   | 10      |
| EQBF32005 | 1/4 x 1/4         | 0.97        | 1.72   | 9/16   | 10      |
| EQBF32006 | 1/4 x 3/8         | 0.97        | 1.72   | 11/16  | 10      |
| EQBF32007 | 1/4 x 1/2         | 0.81        | 1.72   | 7/8    | 5       |
| EQBF32008 | 5/16 x 1/8        | 0.97        | 1.47   | 7/16   | 10      |
| EQBF32009 | 5/16 x 1/4        | 0.97        | 1.72   | 9/16   | 10      |
| EQBF32010 | 5/16 x 3/8        | 0.97        | 1.76   | 11/16  | 10      |
| EQBF32011 | 3/8 x 1/8         | 0.97        | 1.53   | 9/16   | 10      |
| EQBF32012 | 3/8 x 1/4         | 0.97        | 1.75   | 9/16   | 10      |
| EQBF32013 | 3/8 x 3/8         | 0.96        | 1.72   | 11/16  | 10      |
| EQBF32014 | 3/8 x 1/2         | 0.97        | 1.97   | 7/8    | 5       |
| EQBF32026 | 3/8 x 3/4         | 0.97        | 1.97   | 1-1/16 | 5       |
| EQBF32302 | 1/2 x 1/8         | 0.95        | 1.57   | 9/16   | 5       |
| EQBF32015 | 1/2 x 1/4         | 0.97        | 1.72   | 9/16   | 5       |
| EQBF32016 | 1/2 x 3/8         | 0.97        | 1.76   | 11/16  | 5       |
| EQBF32017 | 1/2 x 1/2         | 0.96        | 1.87   | 7/8    | 5       |
| EQBF32018 | 1/2 x 3/4         | 0.97        | 1.94   | 1-1/16 | 5       |
| EQBF32304 | 5/8 x 1/4         | 0.92        | 1.67   | 11/16  | 5       |
| EQBF32019 | 5/8 x 3/8         | 0.97        | 1.76   | 11/16  | 5       |
| EQBF32020 | 5/8 x 1/2         | 0.96        | 1.87   | 7/8    | 5       |
| EQBF32022 | 3/4 x 1/2         | 0.96        | 1.87   | 7/8    | 5       |
| EQBF32023 | 3/4 x 3/4         | 0.96        | 1.87   | 1-1/16 | 5       |
| EQBF32316 | 3/4 x 1           | 1.15        | 2.55   | 1-3/8  | 5       |
| EQBF32025 | 1 x 1             | 1.19        | 2.48   | 1-3/8  | 5       |



## BRASS HOSE BARB MENDER

| Part #    | Size        | Barb Length | Length | OD   | Pkg Qty |
|-----------|-------------|-------------|--------|------|---------|
| EQBF32092 | 3/16 x 3/16 | 0.77        | 1.62   | 0.36 | 10      |
| EQBF32093 | 1/4 x 1/4   | 0.96        | 2.00   | 0.37 | 10      |
| EQBF32094 | 5/16 x 5/16 | 0.96        | 2.00   | 0.39 | 10      |
| EQBF32375 | 3/8 x 5/16  | 0.97        | 2.00   | 0.56 | 10      |
| EQBF32095 | 3/8 x 3/8   | 0.94        | 2.00   | 0.51 | 10      |
| EQBF32096 | 1/2 x 1/2   | 0.96        | 2.00   | 0.62 | 5       |
| EQBF32097 | 5/8 x 5/8   | 0.96        | 2.05   | 0.75 | 5       |
| EQBF32098 | 3/4 x 3/4   | 1.15        | 2.50   | 0.87 | 5       |
| EQBF32099 | 1 x 1       | 1.44        | 3.00   | 1.02 | 5       |



## BRASS HOSE BARB MALE 90° ELBOW

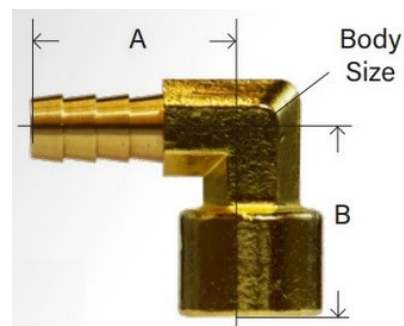
| Part #     | Size (Hose x NPT) | A    | B    | C    | Body Size | Pkg Qty |
|------------|-------------------|------|------|------|-----------|---------|
| EQBF32308  | 3/16 x 1/8        | 0.95 | 0.70 | 0.66 | 0.37      | 10      |
| EQBF32038  | 1/4 x 1/8         | 1.01 | 0.81 | 0.71 | 0.47      | 10      |
| EQBF32039  | 1/4 x 1/4         | 1.01 | 0.87 | 0.63 | 0.47      | 10      |
| EQBF32036  | 5/16 x 1/8        | 1.01 | 0.81 | 0.63 | 0.47      | 10      |
| EQBF32040  | 5/16 x 1/4        | 1.01 | 0.87 | 0.63 | 0.47      | 10      |
| EQBF32310  | 5/16 x 3/8        | 1.06 | 0.94 | 0.63 | 0.50      | 10      |
| EQBF32046  | 3/8 x 1/8         | 1.01 | 0.81 | 0.63 | 0.47      | 10      |
| EQBF32041  | 3/8 x 1/4         | 1.02 | 0.88 | 0.65 | 0.47      | 10      |
| EQBF32041B | 3/8 x 1/4         | 1.32 | 0.89 | 0.97 | 0.58      | 10      |
| EQBF32042  | 3/8 x 3/8         | 1.09 | 0.93 | 0.68 | 0.50      | 10      |
| EQBF32047  | 3/8 x 1/2         | 1.11 | 1.09 | 0.63 | 0.59      | 5       |
| EQBF32048  | 1/2 x 1/4         | 1.06 | 1.00 | 0.68 | 0.59      | 5       |
| EQBF32043  | 1/2 x 3/8         | 1.06 | 1.09 | 0.69 | 0.59      | 5       |
| EQBF32311  | 1/2 x 1/2         | 1.31 | 1.19 | 0.87 | 0.56      | 5       |
| EQBF32044  | 5/8 x 3/8         | 1.12 | 1.09 | 0.69 | 0.59      | 5       |
| EQBF32312  | 5/8 x 3/4         | 1.46 | 1.26 | 0.93 | 1.06      | 5       |
| EQBF32314  | 3/4 x 3/4         | 1.46 | 1.26 | 0.91 | 1.06      | 5       |



# BRASS HOSE BARB FITTINGS

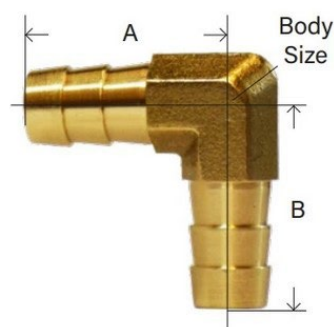
## BRASS HOSE BARB FEMALE 90° ELBOW

| Part #    | Size (Hose x NPT) | A    | B    | Body Size | Pkg Qty |
|-----------|-------------------|------|------|-----------|---------|
| EQBF32402 | 1/4 x 1/4         | 1.13 | 0.91 | 0.56      | 10      |
| EQBF32410 | 1/2 x 3/8         | 1.24 | 1.11 | 0.68      | 5       |



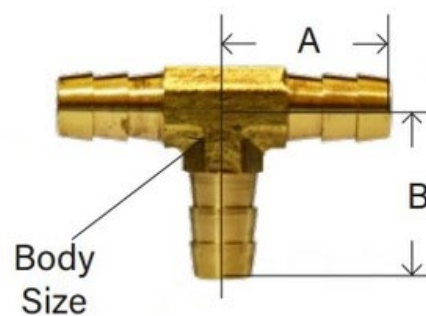
## BRASS HOSE BARB 90° ELBOW

| Part #    | Size        | A    | B    | Body Size | Pkg Qty |
|-----------|-------------|------|------|-----------|---------|
| EQBF32413 | 1/4 x 1/4   | 1.01 | 1.01 | 0.44      | 10      |
| EQBF32425 | 5/16 x 5/16 | 1.15 | 1.15 | 0.48      | 10      |
| EQBF32414 | 3/8 x 1/8   | 1.01 | 1.01 | 0.44      | 10      |
| EQBF32415 | 3/8 x 1/4   | 1.00 | 1.00 | 0.44      | 10      |
| EQBF32416 | 3/8 x 3/8   | 1.02 | 1.02 | 0.44      | 10      |
| EQBF32418 | 1/2 x 1/4   | 1.24 | 1.08 | 0.50      | 5       |
| EQBF32419 | 1/2 x 3/8   | 1.22 | 1.09 | 0.50      | 5       |



## BRASS HOSE BARB TEE

| Part #    | Size        | A    | B    | Body Size | Pkg Qty |
|-----------|-------------|------|------|-----------|---------|
| EQBF32365 | 1/4 x 1/4   | 1.00 | 1.00 | 0.44      | 10      |
| EQBF32366 | 5/16 x 5/16 | 1.00 | 1.00 | 0.44      | 10      |
| EQBF32126 | 3/8 x 3/8   | 1.01 | 1.01 | 0.43      | 10      |
| EQBF32400 | 1/2 x 1/2   | 1.02 | 1.00 | 0.43      | 5       |
| EQBF32361 | 5/8 x 5/8   | 1.26 | 1.26 | 0.75      | 5       |
| EQBF32363 | 3/4 x 3/4   | 1.26 | 1.26 | 0.88      | 5       |



## BRASS PUSH ON HOSE BARB MENDER

| Part #    | Size | OAL  | Pkg Qty |
|-----------|------|------|---------|
| EQBF30300 | 1/4  | 1.87 | 10      |
| EQBF30305 | 5/16 | 1.80 | 10      |
| EQBF30301 | 3/8  | 2.00 | 10      |
| EQBF30302 | 1/2  | 2.01 | 5       |



## BRASS HOSE BARB FITTINGS, BRASS SAE 45° FLARE FITTINGS

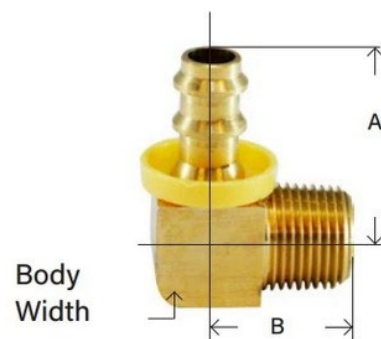
### BRASS PUSH ON HOSE BARB MALE ADAPTER

| Part #    | Size (Hose x MIP) | Barb Length | OAL  | Hex   | Pkg Qty |
|-----------|-------------------|-------------|------|-------|---------|
| EQBF30200 | 1/4 x 1/8         | 0.87        | 1.43 | 1/2   | 10      |
| EQBF30201 | 1/4 x 1/4         | 0.87        | 1.66 | 9/16  | 10      |
| EQBF30213 | 5/16 x 1/4        | 0.87        | 1.66 | 9/16  | 10      |
| EQBF30202 | 3/8 x 1/8         | 0.97        | 1.53 | 1/2   | 10      |
| EQBF30203 | 3/8 x 1/4         | 0.89        | 1.69 | 9/16  | 10      |
| EQBF30204 | 3/8 x 3/8         | 0.97        | 1.76 | 11/16 | 10      |
| EQBF30207 | 1/2 x 1/2         | 0.97        | 1.97 | 7/8   | 5       |



### BRASS PUSH ON HOSE BARB 90° MALE ELBOW

| Part #    | Size (Hose x MIP) | A    | B    | Body Size | Pkg Qty |
|-----------|-------------------|------|------|-----------|---------|
| EQBF30372 | 1/4 x 1/8         | 0.98 | 0.75 | 0.50      | 10      |
| EQBF30373 | 1/4 x 1/4         | 1.04 | 0.95 | 0.56      | 10      |
| EQBF30375 | 5/16 x 1/4        | 1.09 | 0.94 | 0.56      | 10      |
| EQBF30371 | 3/8 x 1/4         | 1.12 | 0.90 | 0.56      | 10      |
| EQBF30376 | 3/8 x 3/8         | 1.21 | 0.92 | 0.70      | 10      |



## BRASS SAE 45° FLARE FITTINGS

### BRASS FLARE SHORT FORGED NUT

| Part #    | Size | Length | Hex   | Pkg Qty |
|-----------|------|--------|-------|---------|
| EQBF10041 | 3/8  | 0.70   | 13/16 | 10      |
| EQBF10042 | 1/2  | 0.82   | 15/16 | 5       |



### BRASS FLARE CAP

| Part #    | Size | Length | Hex  | Pkg Qty |
|-----------|------|--------|------|---------|
| EQBF10075 | 1/4  | 0.48   | 0.50 | 10      |
| EQBF10077 | 3/8  | 0.58   | 0.75 | 10      |
| EQBF10078 | 1/2  | 0.69   | 0.81 | 5       |



## BRASS DOT AIR BRAKE FITTINGS

### BRASS DOT AIR BRAKE FITTINGS

DOT Air Brake Fittings are easy to assemble and have built in tube support. They have a maximum operating pressure of 150 PSI, fair resistance to vibration, and can be used in temperatures between -40° and 200°F. Use them with Nylon Tubing SAE J844 Type A and B.

#### BRASS DOT AIR BRAKE NYLON TUBING SLEEVES

| Part #    | Size | Length | Pkg Qty |
|-----------|------|--------|---------|
| EQBF38001 | 1/4  | 0.30   | 10      |
| EQBF38002 | 3/8  | 0.39   | 10      |
| EQBF38003 | 1/2  | 0.43   | 5       |
| EQBF38004 | 5/8  | 0.48   | 5       |
| EQBF38005 | 3/4  | 0.54   | 5       |



#### BRASS DOT AIR BRAKE NYLON TUBING NUTS

| Part #    | Size | Length | Hex   | Pkg Qty |
|-----------|------|--------|-------|---------|
| EQBF38010 | 1/4  | 0.45   | 9/16  | 10      |
| EQBF38011 | 3/8  | 0.63   | 5/8   | 10      |
| EQBF38012 | 1/2  | 0.72   | 13/16 | 5       |
| EQBF38013 | 5/8  | 0.77   | 15/16 | 5       |
| EQBF38014 | 3/4  | 0.81   | 1-1/8 | 5       |



#### BRASS DOT AIR BRAKE NYLON TUBING INSERTS

| Part #    | Size | Length | OD   | Pkg Qty |
|-----------|------|--------|------|---------|
| EQBF38040 | 1/4  | 0.66   | 0.15 | 10      |
| EQBF38041 | 3/8  | 0.84   | 0.24 | 10      |
| EQBF38042 | 1/2  | 1      | 0.37 | 5       |



#### BRASS DOT AIR BRAKE NYLON TUBING UNIONS

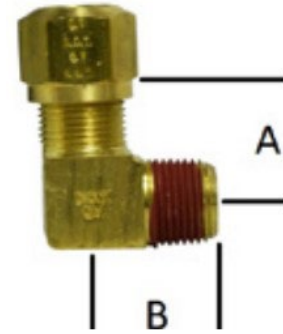
| Part #    | Size | Length | Hex   | Pkg Qty |
|-----------|------|--------|-------|---------|
| EQBF38019 | 1/4  | 0.85   | 7/16  | 10      |
| EQBF38020 | 3/8  | 1.10   | 9/16  | 10      |
| EQBF38021 | 1/2  | 1.31   | 11/16 | 5       |
| EQBF38022 | 5/8  | 1.43   | 13/16 | 5       |
| EQBF38023 | 3/4  | 1.60   | 1     | 5       |





## BRASS DOT AIR BRAKE NYLON TUBING MALE ADAPTERS

| Part #    | Size (Tube x NPT) | Length | Hex   | Pkg Qty | Part #    | Size (Tube x NPT) | Length | Hex    | Pkg Qty |
|-----------|-------------------|--------|-------|---------|-----------|-------------------|--------|--------|---------|
| EQBF38073 | 1/4 x 1/8         | 0.88   | 7/16  | 10      | EQBF38082 | 1/2 x 1/2         | 2.04   | 7/8    | 5       |
| EQBF38074 | 1/4 x 1/4         | 1.09   | 9/16  | 10      | EQBF38087 | 1/2 x 3/4         | 1.57   | 1-1/16 | 5       |
| EQBF38075 | 1/4 x 3/8         | 1.07   | 11/16 | 10      | EQBF38083 | 5/8 x 3/8         | -      | -      | 5       |
| EQBF38076 | 3/8 x 1/8         | -      | 9/16  | 10      | EQBF38084 | 5/8 x 1/2         | -      | -      | 5       |
| EQBF38077 | 3/8 x 1/4         | 1.20   | 9/16  | 10      | EQBF38088 | 5/8 x 3/4         | -      | -      | 5       |
| EQBF38078 | 3/8 x 3/8         | 1.24   | 11/16 | 10      | EQBF38085 | 3/4 x 1/2         | -      | -      | 5       |
| EQBF38080 | 1/2 x 1/4         | -      | 11/16 | 5       | EQBF38086 | 3/4 x 3/4         | -      | -      | 5       |
| EQBF38081 | 1/2 x 3/8         | 1.32   | 11/16 | 5       |           |                   |        |        |         |

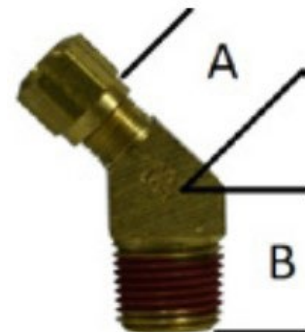


## BRASS DOT AIR BRAKE NYLON TUBING 90° MALE ELBOWS

| Part #    | Size (Tube x NPT) | A    | B    | Pkg Qty | Part #    | Size (Tube x NPT) | A    | B    | Pkg Qty |
|-----------|-------------------|------|------|---------|-----------|-------------------|------|------|---------|
| EQBF38091 | 1/4 x 1/8         | 0.61 | 0.65 | 10      | EQBF38104 | 1/2 x 3/8         | 0.92 | 0.98 | 5       |
| EQBF38092 | 1/4 x 1/4         | 0.67 | 0.86 | 10      | EQBF38105 | 1/2 x 1/2         | 1.02 | 1.17 | 5       |
| EQBF38094 | 3/8 x 1/8         | 0.72 | 0.73 | 10      | EQBF38106 | 5/8 x 3/8         | 1.00 | 1.05 | 5       |
| EQBF38095 | 3/8 x 1/4         | 0.80 | 0.93 | 10      | EQBF38107 | 5/8 x 1/2         | 1.10 | 1.25 | 5       |
| EQBF38101 | 3/8 x 3/8         | 0.83 | 0.90 | 10      | EQBF38110 | 5/8 x 3/4         | 1.09 | 1.24 | 5       |
| EQBF38102 | 3/8 x 1/2         | 0.93 | 1.09 | 5       | EQBF38108 | 3/4 x 1/2         | 1.19 | 1.33 | 5       |

## BRASS DOT AIR BRAKE NYLON TUBING 45° MALE ELBOWS

| Part #    | Size (Tube x NPT) | A    | B    | Pkg Qty |
|-----------|-------------------|------|------|---------|
| EQBF38148 | 1/4 x 1/8         | 0.49 | 0.63 | 10      |
| EQBF38149 | 1/4 x 1/4         | 0.60 | 0.85 | 10      |
| EQBF38151 | 3/8 x 1/4         | 0.72 | 0.86 | 10      |
| EQBF38152 | 3/8 x 3/8         | 0.76 | 0.95 | 10      |
| EQBF38153 | 3/8 x 1/2         | 0.78 | 1.20 | 5       |
| EQBF38155 | 1/2 x 1/2         | 0.87 | 1.16 | 5       |
| EQBF38156 | 5/8 x 1/2         | 1.00 | 1.20 | 5       |
| EQBF38158 | 3/4 x 1/2         | 1.10 | 1.18 | 5       |



# BRASS DOT AIR BRAKE FITTINGS

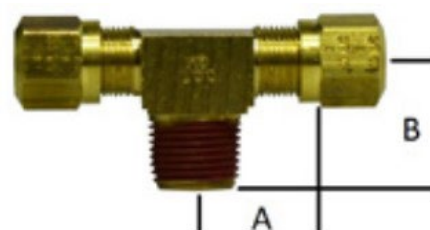
## BRASS DOT AIR BRAKE NYLON TUBING TEES

| Part #    | Tube OD | Pkg Qty |
|-----------|---------|---------|
| EQBF38044 | 1/4     | 10      |
| EQBF38045 | 3/8     | 10      |
| EQBF38046 | 1/2     | 5       |
| EQBF38048 | 3/4     | 5       |



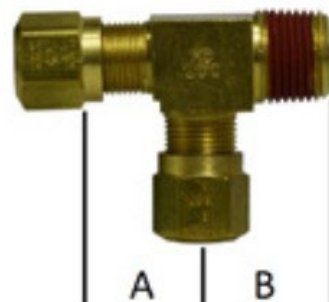
## BRASS DOT AIR BRAKE NYLON TUBING MALE BRANCH TEES

| Part #    | Size (Tube x NPT) | A    | B    | Pkg Qty |
|-----------|-------------------|------|------|---------|
| EQBF38137 | 1/4 x 1/4         | 0.61 | 0.65 | 10      |
| EQBF38138 | 3/8 x 1/8         | 0.67 | 0.86 | 10      |
| EQBF38140 | 3/8 x 3/8         | 0.83 | 0.90 | 5       |
| EQBF38133 | 1/2 x 1/4         | 0.87 | 1.00 | 5       |
| EQBF38141 | 1/2 x 3/8         | 0.92 | 0.98 | 5       |
| EQBF38142 | 1/2 x 1/2         | 1.02 | 1.17 | 5       |
| EQBF38143 | 5/8 x 1/2         | 1.09 | 1.24 | 5       |



## BRASS DOT AIR BRAKE NYLON TUBING MALE RUN TEES

| Part #    | Size (Tube x NPT x Tube) | A    | B    | Pkg Qty |
|-----------|--------------------------|------|------|---------|
| EQBF38126 | 1/4 x 1/4 x 1/4          | 0.68 | 0.86 | 10      |
| EQBF38128 | 3/8 x 3/8 x 3/8          | 0.83 | 0.90 | 10      |
| EQBF38129 | 1/2 x 3/8 x 1/2          | 0.92 | 0.98 | 5       |



## BRASS DOT AIR BRAKE ADAPTERS

| Part #    | Size (Hose x MPT) | Pkg Qty |
|-----------|-------------------|---------|
| EQBF38334 | 3/8 x 3/8         | 10      |



## BRASS DOT PUSH-IN FITTINGS

DOT Push-In Tube Fittings offer cost savings and easy assembly. They meet D.O.T. FMVSS 571.106 SAE J1131 air brake system requirements. They have a maximum working pressure of 150 PSI and work between -40° and 200°F.

## NYLON DOT PUSH-IN PLUG

| Part #     | Size | OAL  | Pkg Qty |
|------------|------|------|---------|
| EQBF590400 | 1/4  | 0.81 | 10      |
| EQBF590600 | 3/8  | 1.34 | 10      |
| EQBF590800 | 1/2  | 0.99 | 5       |



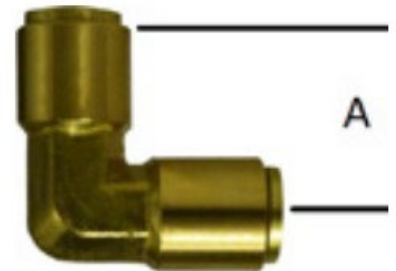
## BRASS DOT PUSH-IN UNION

| Part #     | Size | OAL  | OD   | Pkg Qty |
|------------|------|------|------|---------|
| EQBF620532 | 5/32 | 1.18 | 0.39 | 10      |
| EQBF620400 | 1/4  | 1.22 | 0.47 | 10      |
| EQBF620600 | 3/8  | 1.77 | 0.67 | 10      |
| EQBF620800 | 1/2  | 2.01 | 0.81 | 5       |
| EQBF621000 | 5/8  | 2.42 | 1.00 | 5       |
| EQBF621200 | 3/4  | 2.48 | 1.18 | 5       |



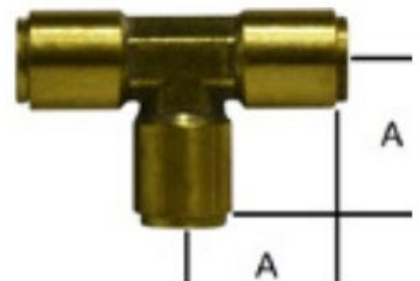
## BRASS DOT PUSH-IN 90° UNION ELBOW

| Part #     | Size | A    | Body Size | Pkg Qty |
|------------|------|------|-----------|---------|
| EQBF650400 | 1/4  | 1.05 | 0.50      | 10      |
| EQBF650600 | 3/8  | 1.11 | -         | 10      |
| EQBF650800 | 1/2  | 1.26 | 0.62      | 5       |



## BRASS DOT PUSH-IN UNION TEE

| Part #     | Size | A    | Body Size | Pkg Qty |
|------------|------|------|-----------|---------|
| EQBF640400 | 1/4  | 1.01 | 0.37      | 10      |
| EQBF640600 | 3/8  | 1.07 | 0.50      | 10      |
| EQBF640800 | 1/2  | 1.26 | 0.62      | 5       |
| EQBF641000 | 5/8  | 1.32 | 0.69      | 5       |
| EQBF641200 | 3/4  | -    | -         | 5       |



# BRASS DOT PUSH-IN FITTINGS



## BRASS DOT PUSH-IN MALE CONNECTOR

| Part #     | Size       | OAL  | Hex   | Pkg Qty | Part #     | Size      | OAL  | Hex    | Pkg Qty |
|------------|------------|------|-------|---------|------------|-----------|------|--------|---------|
| EQBF685322 | 5/32 x 1/8 | 0.79 | 7/16  | 10      | EQBF680804 | 1/2 x 1/4 | 1.68 | 7/8    | 5       |
| EQBF680402 | 1/4 x 1/8  | 0.96 | 7/16  | 10      | EQBF680806 | 1/2 x 3/8 | 1.64 | 7/8    | 5       |
| EQBF680404 | 1/4 x 1/4  | 0.88 | 9/16  | 10      | EQBF680808 | 1/2 x 1/2 | 1.72 | 7/8    | 5       |
| EQBF680406 | 1/4 x 3/8  | 1.20 | 11/16 | 10      | EQBF681006 | 5/8 x 3/8 | 1.87 | 1-1/16 | 5       |
| EQBF680602 | 3/8 x 1/8  | 1.16 | 11/16 | 10      | EQBF681008 | 5/8 x 1/2 | 2.12 | 1-1/16 | 5       |
| EQBF680604 | 3/8 x 1/4  | 1.19 | 11/16 | 10      | EQBF681208 | 3/4 x 1/2 | 2.11 | 1-3/16 | 5       |
| EQBF680606 | 3/8 x 3/8  | -    | 11/16 | 10      | EQBF681212 | 3/4 x 3/4 | 2.03 | 1-3/16 | 5       |
| EQBF680608 | 3/8 x 1/2  | 1.10 | 7/8   | 5       |            |           |      |        |         |

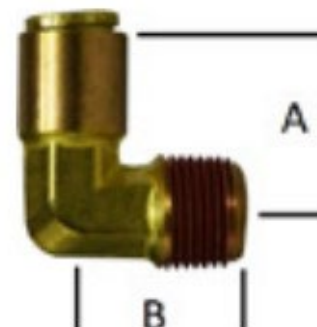
## BRASS DOT PUSH-IN FEMALE CONNECTOR

| Part #     | Size (Tube x FIP) | Length | Pkg Qty |
|------------|-------------------|--------|---------|
| EQBF660402 | 1/4 x 1/8         | 1.20   | 10      |
| EQBF660404 | 1/4 x 1/4         | 1.30   | 10      |
| EQBF660604 | 3/8 x 1/4         | 1.50   | 10      |
| EQBF660606 | 3/8 x 3/8         | 1.50   | 10      |
| EQBF660806 | 1/2 x 3/8         | 1.40   | 5       |
| EQBF660808 | 1/2 x 1/2         | 1.60   | 5       |



## BRASS DOT PUSH-IN MALE 90° ELBOW

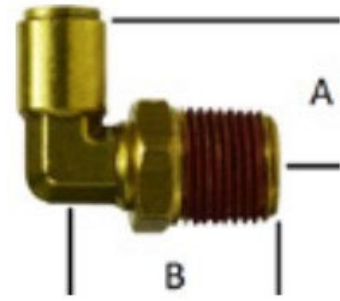
| Part #     | Size      | A    | B    | Body Size | Pkg Qty |
|------------|-----------|------|------|-----------|---------|
| EQBF690402 | 1/4 x 1/8 | 1.02 | 1.02 | 0.55      | 10      |
| EQBF690404 | 1/4 x 1/4 | .870 | 1.02 | 0.71      | 10      |
| EQBF690406 | 1/4 x 3/8 | .940 | 1.10 | 0.87      | 10      |
| EQBF690602 | 3/8 x 1/8 | 1.08 | 0.87 | 0.90      | 10      |
| EQBF690604 | 3/8 x 1/4 | 1.01 | 1.02 | 0.90      | 10      |
| EQBF690606 | 3/8 x 3/8 | 1.14 | 1.10 | 0.90      | 10      |
| EQBF690608 | 3/8 x 1/2 | 1.14 | 1.80 | 0.94      | 5       |
| EQBF690804 | 1/2 x 1/4 | 1.22 | 1.14 | 0.87      | 5       |
| EQBF690806 | 1/2 x 3/8 | 1.26 | 1.14 | 0.87      | 5       |
| EQBF690808 | 1/2 x 1/2 | 1.28 | 1.38 | 0.94      | 5       |
| EQBF691006 | 5/8 x 3/8 | 1.44 | 1.22 | 0.87      | 5       |
| EQBF691008 | 5/8 x 1/2 | 1.54 | 1.42 | 1.18      | 5       |
| EQBF691208 | 3/4 x 1/2 | -    | -    | -         | 5       |
| EQBF691212 | 3/4 x 3/4 | -    | -    | -         | 5       |





## BRASS DOT PUSH-IN MALE 90° SWIVEL ELBOW

| Part #      | Size      | A    | B    | Hex    | Pkg Qty |
|-------------|-----------|------|------|--------|---------|
| EQBF690402S | 1/4 x 1/8 | 0.98 | 0.91 | 7/16   | 10      |
| EQBF690404S | 1/4 x 1/4 | 1.02 | 0.88 | 9/16   | 10      |
| EQBF690602S | 3/8 x 1/8 | -    | -    | 7/16   | 10      |
| EQBF690604S | 3/8 x 1/4 | 1.15 | 1.05 | 11/16  | 10      |
| EQBF690606S | 3/8 x 3/8 | 1.10 | 1.23 | 9/16   | 10      |
| EQBF690806S | 1/2 x 3/8 | 1.27 | 1.42 | 7/8    | 5       |
| EQBF690808S | 1/2 x 1/2 | 1.27 | 1.62 | 7/8    | 5       |
| EQBF691006S | 5/8 x 3/8 | -    | -    | 11/16  | 5       |
| EQBF691008S | 5/8 x 1/2 | -    | -    | 7/8    | 5       |
| EQBF691208S | 3/4 x 1/2 | -    | -    | 1-1/16 | 5       |
| EQBF691212S | 3/4 x 3/4 | -    | -    | 1-1/16 | 5       |



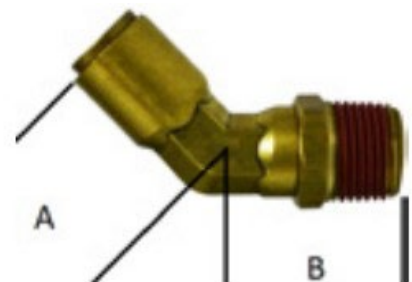
## BRASS DOT PUSH-IN MALE 45° ELBOW

| Part #     | Size      | Pkg Qty |
|------------|-----------|---------|
| EQBF540402 | 1/4 x 1/8 | 10      |
| EQBF540404 | 1/4 x 1/4 | 10      |
| EQBF540602 | 3/8 x 1/8 | 10      |
| EQBF540604 | 3/8 x 1/4 | 10      |
| EQBF540606 | 3/8 x 3/8 | 10      |
| EQBF540608 | 3/8 x 1/2 | 10      |
| EQBF540806 | 1/2 x 3/8 | 5       |
| EQBF540808 | 1/2 x 1/2 | 5       |



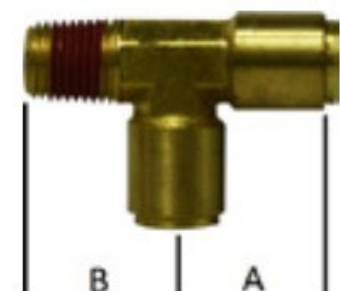
## BRASS DOT PUSH-IN MALE 45° SWIVEL ELBOW

| Part #      | Size      | A    | B    | Hex   | Pkg Qty |
|-------------|-----------|------|------|-------|---------|
| EQBF540402S | 1/4 x 1/8 | 0.99 | 0.98 | 7/16  | 10      |
| EQBF540404S | 1/4 x 1/4 | 0.77 | 0.94 | 9/16  | 10      |
| EQBF540602S | 3/8 x 1/8 | 1.07 | 1.08 | 7/16  | 10      |
| EQBF540604S | 3/8 x 1/4 | 1.07 | 1.13 | 9/16  | 10      |
| EQBF540606S | 3/8 x 3/8 | 1.08 | 1.23 | 11/16 | 10      |
| EQBF540804S | 1/2 x 1/4 | 1.22 | 1.22 | 9/16  | 5       |
| EQBF540806S | 1/2 x 3/8 | 1.20 | 1.31 | 11/16 | 5       |
| EQBF540808S | 1/2 x 1/2 | 1.20 | 1.61 | 7/8   | 5       |



## BRASS DOT PUSH-IN MALE RUN TEE

| Part #     | Size      | A    | B    | Body Size | Pkg Qty |
|------------|-----------|------|------|-----------|---------|
| EQBF710402 | 1/4 x 1/8 | 0.88 | 0.79 | 0.55      | 10      |
| EQBF710404 | 1/4 x 1/4 | 0.95 | 0.96 | 0.43      | 10      |
| EQBF710604 | 3/8 x 1/4 | 1.09 | 0.96 | 0.71      | 10      |
| EQBF710606 | 3/8 x 3/8 | 1.06 | 1.10 | 0.50      | 10      |
| EQBF710806 | 1/2 x 3/8 | 1.30 | 1.14 | 0.87      | 5       |

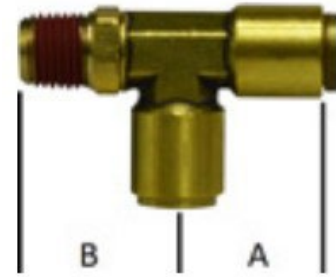




## BRASS DOT PUSH-IN FITTINGS, FORGED BRASS VALVES

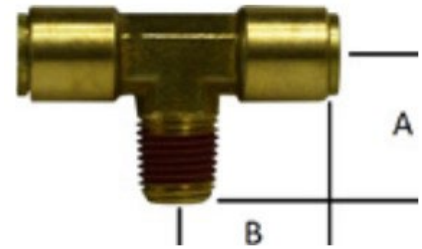
### BRASS DOT PUSH-IN MALE SWIVEL RUN TEE

| Part #      | Size      | A    | B    | Hex  | Pkg Qty |
|-------------|-----------|------|------|------|---------|
| EQBF710402S | 1/4 x 1/8 | 1.01 | 1.01 | 7/16 | 10      |
| EQBF710404S | 1/4 x 1/4 | 0.88 | 1.23 | 9/16 | 10      |
| EQBF710604S | 3/8 x 1/4 | 1.07 | 1.07 | 9/16 | 10      |
| EQBF710606S | 3/8 x 3/8 | 1.06 | 1.17 | 1/2  | 10      |
| EQBF710804S | 1/2 x 1/4 | 1.21 | 1.22 | 9/16 | 5       |
| EQBF710806S | 1/2 x 3/8 | 1.24 | 1.28 | 5/8  | 5       |
| EQBF710808S | 1/2 x 1/2 | 1.24 | 1.58 | 5/8  | 5       |



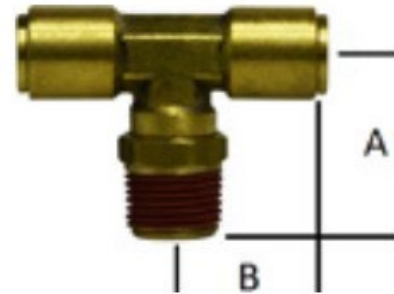
### BRASS DOT PUSH-IN MALE BRANCH TEE

| Part #     | Size      | A    | B    | Body Size | Pkg Qty |
|------------|-----------|------|------|-----------|---------|
| EQBF720402 | 1/4 x 1/8 | 0.79 | 0.85 | 0.55      | 10      |
| EQBF720404 | 1/4 x 1/4 | 0.96 | 0.89 | 0.43      | 10      |
| EQBF720604 | 3/8 x 1/4 | 0.96 | 1.08 | 0.71      | 10      |
| EQBF720606 | 3/8 x 3/8 | 1.10 | 1.14 | 0.77      | 10      |
| EQBF720804 | 1/2 x 1/4 | 1.13 | 1.22 | 0.87      | 5       |
| EQBF720806 | 1/2 x 3/8 | 1.07 | 1.26 | 0.62      | 5       |
| EQBF720808 | 1/2 x 1/2 | 1.42 | 1.34 | 0.94      | 5       |



### BRASS DOT PUSH-IN MALE SWIVEL BRANCH TEE

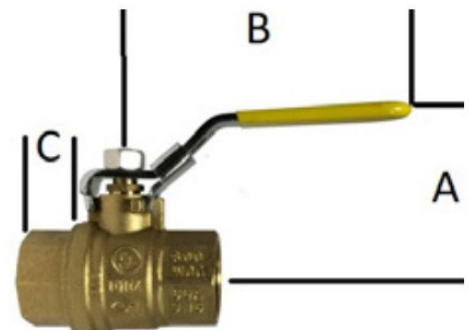
| Part #      | Size      | A    | B    | Hex   | Pkg Qty |
|-------------|-----------|------|------|-------|---------|
| EQBF720402S | 1/4 x 1/8 | 0.91 | 0.83 | 7/16  | 10      |
| EQBF720404S | 1/4 x 1/4 | 1.04 | 1.01 | 9/16  | 10      |
| EQBF720604S | 3/8 x 1/4 | 1.10 | 1.10 | 9/16  | 10      |
| EQBF720606S | 3/8 x 3/8 | 1.25 | 2.06 | 11/16 | 10      |
| EQBF720804S | 1/2 x 1/4 | 1.39 | 1.28 | 7/8   | 5       |
| EQBF720806S | 1/2 x 3/8 | 1.26 | 1.31 | 11/16 | 5       |
| EQBF720808S | 1/2 x 1/2 | 1.26 | 1.61 | 7/8   | 5       |



## FORGED BRASS VALVES

### FULL PORT • 600 PSI

| Part #     | Size  | Length | A    | B    | C    | Hex     | Pkg Qty |
|------------|-------|--------|------|------|------|---------|---------|
| EQBF940171 | 1/4   | 1.75   | 1.92 | 3.54 | 0.46 | 25/32   | 10      |
| EQBF940172 | 3/8   | 1.75   | 1.92 | 3.54 | 0.46 | 25/32   | 10      |
| EQBF940173 | 1/2   | 2.05   | 2.08 | 3.54 | 0.52 | 1       | 5       |
| EQBF940174 | 3/4   | 2.36   | 2.30 | 3.78 | 0.56 | 1-1/4   | 5       |
| EQBF940175 | 1     | 2.75   | 2.68 | 4.52 | 0.66 | 1-1/2   | 3       |
| EQBF940176 | 1-1/4 | 3.30   | 3.14 | 4.52 | 0.70 | 1-13/16 | 3       |
| EQBF940177 | 1-1/2 | 3.66   | 3.61 | 5.51 | 0.72 | 2-3/32  | 3       |
| EQBF940178 | 2     | 4.18   | 3.68 | 5.51 | 0.74 | 2-5/8   | 3       |



## BRASS NEEDLE VALVE

### BRASS NEEDLE VALVE • 150 PSI

| Part #    | Size (FIP x FIP) | Length | Pkg Qty |
|-----------|------------------|--------|---------|
| EQBF46055 | 1/8              | 1.18   | 10      |
| EQBF46056 | 1/4              | 1.60   | 10      |



## CAST BRASS GATE VALVE

### FULL PORT • 200 PSI WOG

| Part #     | Size (FIP x FIP) | Length | Pkg Qty |
|------------|------------------|--------|---------|
| EQBF940134 | 1                | 2.13   | 5       |



## MINI FLAG HANDLE BALL VALVE

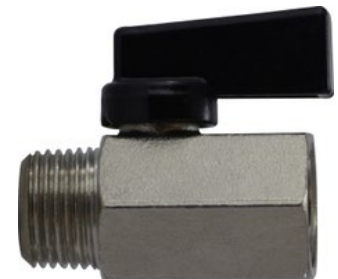
### CHROME PLATED • 450 PSI • FEMALE X FEMALE

| Part #    | Size (F x F) | Length | Pkg Qty |
|-----------|--------------|--------|---------|
| EQBF46934 | 1/8          | 1.57   | 10      |
| EQBF46935 | 1/4          | 1.57   | 10      |
| EQBF46936 | 3/8          | 1.57   | 10      |
| EQBF46937 | 1/2          | 1.77   | 5       |



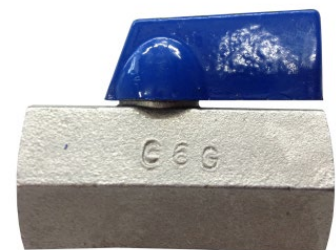
### 316 STAINLESS STEEL • 400 PSI • MALE X FEMALE

| Part #      | Size (M x F) | Length | Pkg Qty |
|-------------|--------------|--------|---------|
| EQPF46931SS | 1/4          | 1.693  | 10      |
| EQPF46932SS | 3/8          | 1.693  | 10      |
| EQPF46933SS | 1/2          | 1.811  | 5       |



### 316 STAINLESS STEEL • 400 PSI • FEMALE X FEMALE

| Part #      | Size (F x F) | Length | Pkg Qty |
|-------------|--------------|--------|---------|
| EQPF46935SS | 1/4          | 1.693  | 10      |
| EQPF46936SS | 3/8          | 1.693  | 10      |
| EQPF46937SS | 1/2          | 1.811  | 5       |



# HIGH PRESSURE CHECK VALVE, STAINLESS STEEL DOT AIR BRAKE FITTINGS, COMPOSITE PUSH-IN FITTINGS

## HIGH PRESSURE CHECK VALVE

### CARBON STEEL - 5000 PSI - 5LB CRACKING PRESSURE

| Part #     | Size (FNPT x FNPT) | Length | Pkg Qty |
|------------|--------------------|--------|---------|
| EQHF100045 | 1/2                | 3.76   | 5       |



## STAINLESS STEEL DOT AIR BRAKE FITTINGS

### STAINLESS STEEL DOT AIR BRAKE NYLON TUBING INSERT

| Part #    | Size | Pkg Qty |
|-----------|------|---------|
| EQBF38035 | 1/4  | 10      |
| EQBF38036 | 3/8  | 10      |
| EQBF38037 | 1/2  | 10      |



## COMPOSITE PUSH-IN FITTINGS

### COMPOSITE PUSH-IN UNIONS

| Part #     | Size | Pkg Qty |
|------------|------|---------|
| EQBF20017C | 1/8  | 10      |
| EQBF20019C | 1/4  | 10      |
| EQBF20020C | 3/8  | 10      |
| EQBF20021C | 1/2  | 5       |



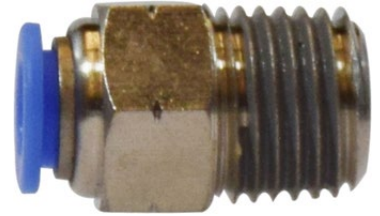
### COMPOSITE PUSH-IN TEES

| Part #     | Size | Pkg Qty |
|------------|------|---------|
| EQBF20028C | 1/4  | 10      |
| EQBF20029C | 3/8  | 10      |
| EQBF20030C | 1/2  | 5       |
| EQBF20031C | 5/16 | 10      |



## COMPOSITE PUSH-IN MALE ADAPTERS

| Part #     | Size      | Pkg Qty |
|------------|-----------|---------|
| EQBF20054C | 1/4 x 1/8 | 10      |
| EQBF20055C | 1/4 x 1/4 | 10      |
| EQBF20056C | 1/4 x 3/8 | 10      |
| EQBF20058C | 3/8 x 1/4 | 10      |
| EQBF20059C | 3/8 x 3/8 | 10      |
| EQBF20061C | 1/2 x 3/8 | 10      |



## COMPOSITE PUSH-IN 90° MALE ELBOWS

| Part #     | Size      | Pkg Qty |
|------------|-----------|---------|
| EQBF20081C | 1/4 x 1/8 | 10      |
| EQBF20082C | 1/4 x 1/4 | 10      |
| EQBF20084C | 3/8 x 3/8 | 10      |



## COMPOSITE PUSH-IN SWIVEL MALE BRANCH TEES

| Part #     | Size      | Pkg Qty |
|------------|-----------|---------|
| EQBF20105C | 1/4 x 1/8 | 10      |
| EQBF20106C | 1/4 x 1/4 | 10      |
| EQBF20107C | 3/8 x 1/4 | 10      |
| EQBF20108C | 3/8 x 3/8 | 10      |



## COMPOSITE PUSH-IN Y ADAPTER

| Part #     | Size | Pkg Qty |
|------------|------|---------|
| EQBF20553C | 1/4  | 10      |
| EQBF20555C | 3/8  | 10      |



## COMPOSITE DOT PUSH-IN FITTINGS

### COMPOSITE DOT PUSH-IN FITTINGS

#### COMPOSITE DOT PUSH-IN UNION

| Part #      | Size | OAL  | OD   | Pkg Qty |
|-------------|------|------|------|---------|
| EQBF620400C | 1/4  | 1.22 | 0.47 | 10      |
| EQBF620600C | 3/8  | 1.77 | 0.67 | 10      |



#### COMPOSITE DOT PUSH-IN UNION TEE

| Part #      | Size | Pkg Qty |
|-------------|------|---------|
| EQBF640400C | 1/4  | 10      |
| EQBF640600C | 3/8  | 10      |
| EQBF640800C | 1/2  | 5       |



#### COMPOSITE DOT PUSH-IN 90° UNION ELBOW

| Part #      | Size | Pkg Qty |
|-------------|------|---------|
| EQBF650400C | 1/4  | 10      |
| EQBF650600C | 3/8  | 10      |
| EQBF650800C | 1/2  | 5       |



#### COMPOSITE DOT PUSH-IN MALE CONNECTOR

| Part #      | Size      | OAL  | Hex    | Pkg Qty |
|-------------|-----------|------|--------|---------|
| EQBF680404C | 1/4 x 1/4 | -    | -      | 10      |
| EQBF680604C | 3/8 x 1/4 | 1.19 | 11/16  | 10      |
| EQBF680808C | 1/2 x 1/2 | 1.72 | 7/8    | 5       |
| EQBF681008C | 5/8 x 1/2 | 2.12 | 1-1/16 | 10      |



#### COMPOSITE DOT PUSH-IN MALE 90° SWIVEL ELBOW

| Part #       | Size      | Pkg Qty |
|--------------|-----------|---------|
| EQBF690402SC | 1/4 x 1/8 | 5       |
| EQBF690604SC | 3/8 x 1/4 | 5       |
| EQBF690606SC | 3/8 x 3/8 | 5       |
| EQBF691208SC | 3/4 x 1/2 | 5       |



## PIPE FITTINGS

These quality Iron Pipe Fittings are made with better molds to reduce parting lines and rough edges which results in better fluid flow. All are pressure tested to 300# class.



## BLACK &amp; GALVANIZED STEEL NIPPLES SCHEDULE 40

| Black Part # | Galvanized Part # | Size                | Pkg Qty | Black Part # | Galvanized Part # | Size                  | Pkg Qty |
|--------------|-------------------|---------------------|---------|--------------|-------------------|-----------------------|---------|
| EQPF57001    | EQPF56001         | 1/8 x CLOSE (3/4)   | 10      | EQPF57080    | EQPF56080         | 3/4 x CLOSE (1-3/8)   | 5       |
| EQPF57002    | -                 | 1/8 x 1-1/2         | 10      | EQPF57081    | -                 | 3/4 x 1-1/2           | 5       |
| EQPF57003    | -                 | 1/8 x 2             | 10      | EQPF57082    | EQPF56082         | 3/4 x 2               | 5       |
| EQPF57004    | -                 | 1/8 x 2-1/2         | 10      | EQPF57083    | EQPF56083         | 3/4 x 2-1/2           | 5       |
| EQPF57005    | EQPF56005         | 1/8 x 3             | 10      | EQPF57084    | EQPF56084         | 3/4 x 3               | 5       |
| EQPF57007    | -                 | 1/8 x 4             | 10      | EQPF57085    | -                 | 3/4 x 3-1/2           | 5       |
| EQPF57009    | -                 | 1/8 x 5             | 10      | EQPF57086    | -                 | 3/4 x 4               | 5       |
| EQPF57011    | -                 | 1/8 x 6             | 10      | EQPF57087    | -                 | 3/4 x 4-1/2           | 5       |
| EQPF57020    | EQPF56020         | 1/4 x CLOSE (7/8)   | 10      | EQPF57089    | -                 | 3/4 x 5-1/2           | 5       |
| EQPF57021    | EQPF56021         | 1/4 x 1-1/2         | 10      | EQPF57090    | -                 | 3/4 x 6               | 5       |
| EQPF57022    | -                 | 1/4 x 2             | 10      | EQPF57100    | EQPF56100         | 1 x CLOSE (1-1/2)     | 5       |
| EQPF57023    | -                 | 1/4 x 2-1/2         | 10      | EQPF57101    | EQPF56101         | 1 x 2                 | 5       |
| EQPF57024    | EQPF56024         | 1/4 x 3             | 10      | EQPF57102    | -                 | 1 x 2-1/2             | 5       |
| EQPF57026    | -                 | 1/4 x 4             | 10      | EQPF57103    | EQPF56103         | 1 x 3                 | 5       |
| EQPF57028    | -                 | 1/4 x 5             | 10      | EQPF57105    | -                 | 1 x 4                 | 5       |
| EQPF57030    | -                 | 1/4 x 6             | 10      | EQPF57107    | -                 | 1 x 5                 | 5       |
| EQPF57040    | EQPF56040         | 3/8 x CLOSE (1)     | 10      | EQPF57109    | EQPF56109         | 1 x 6                 | 5       |
| EQPF57041    | EQPF56041         | 3/8 x 1-1/2         | 10      | EQPF57120    | -                 | 1-1/4 x CLOSE (1-5/8) | 3       |
| EQPF57042    | -                 | 3/8 x 2             | 10      | EQPF57121    | EQPF56121         | 1-1/4 x 2             | 3       |
| EQPF57043    | -                 | 3/8 x 2-1/2         | 10      | EQPF57122    | EQPF56122         | 1-1/4 x 2-1/2         | 3       |
| EQPF57044    | EQPF56044         | 3/8 x 3             | 10      | EQPF57123    | EQPF56123         | 1-1/4 x 3             | 3       |
| EQPF57046    | -                 | 3/8 x 4             | 10      | EQPF57125    | EQPF56125         | 1-1/4 x 4             | 3       |
| EQPF57048    | -                 | 3/8 x 5             | 10      | EQPF57128    | EQPF56128         | 1-1/4 x 5-1/2         | 3       |
| EQPF57050    | -                 | 3/8 x 6             | 10      | EQPF57129    | EQPF56129         | 1-1/4 x 6             | 3       |
| EQPF57060    | EQPF56060         | 1/2 x CLOSE (1-1/8) | 5       | EQPF57140    | -                 | 1-1/2 x CLOSE (1-3/4) | 3       |
| EQPF57061    | -                 | 1/2 x 1-1/2         | 5       | EQPF57143    | EQPF56143         | 1-1/2 x 3             | 3       |
| EQPF57062    | EQPF56062         | 1/2 x 2             | 5       | EQPF57149    | -                 | 1-1/2 x 6             | 3       |
| EQPF57063    | -                 | 1/2 x 2-1/2         | 5       | EQPF57151    | -                 | 1-1/2 x 8             | 3       |
| EQPF57064    | EQPF56064         | 1/2 x 3             | 5       | EQPF57160    | EQPF56160         | 2 x CLOSE (2)         | 3       |
| EQPF57065    | -                 | 1/2 x 3-1/2         | 5       | EQPF57162    | EQPF56162         | 2 x 3                 | 3       |
| EQPF57066    | -                 | 1/2 x 4             | 5       | EQPF57168    | EQPF56168         | 2 x 6                 | 3       |
| EQPF57068    | -                 | 1/2 x 5             | 5       | EQPF57200    | EQPF56200         | 3 x CLOSE (2-5/8)     | 3       |
| EQPF57070    | -                 | 1/2 x 6             | 5       |              |                   |                       |         |

## PIPE FITTINGS



### BLACK & GALVANIZED STEEL MERCHANT COUPLING

| Black Part # | Galvanized Part # | Size  | OD   | Length | Pkg Qty |
|--------------|-------------------|-------|------|--------|---------|
| EQPF65770    | EQPF64770         | 1/8   | 0.59 | 0.78   | 10      |
| EQPF65771    | EQPF64771         | 1/4   | 0.73 | 1.18   | 10      |
| EQPF65772    | EQPF64772         | 3/8   | 0.86 | 1.18   | 10      |
| EQPF65773    | EQPF64773         | 1/2   | 1.06 | 1.56   | 5       |
| EQPF65774    | EQPF64774         | 3/4   | 1.31 | 1.62   | 5       |
| EQPF65775    | EQPF64775         | 1     | 1.57 | 2.00   | 5       |
| EQPF65776    | EQPF64776         | 1-1/4 | 1.90 | 2.06   | 3       |
| EQPF65777    | EQPF64777         | 1-1/2 | 2.20 | 2.06   | 3       |
| EQPF65778    | EQPF64778         | 2     | 2.75 | 2.12   | 3       |

### BLACK STEEL HALF MERCHANT COUPLINGS

| Part #     | Size  | Pkg Qty |
|------------|-------|---------|
| EQPF65771H | 1/4   | 10      |
| EQPF65772H | 3/8   | 10      |
| EQPF65773H | 1/2   | 5       |
| EQPF65774H | 3/4   | 5       |
| EQPF65775H | 1     | 5       |
| EQPF65777H | 1-1/2 | 3       |
| EQPF65778H | 2     | 3       |



### BLACK STEEL HEX CAPS

| Part #    | Size | Length | Hex  | Pkg Qty |
|-----------|------|--------|------|---------|
| EQPF67470 | 1/8  | 0.53   | 0.53 | 10      |
| EQPF67471 | 1/4  | 0.63   | 0.63 | 10      |
| EQPF67472 | 3/8  | 0.69   | 0.69 | 10      |
| EQPF67473 | 1/2  | 0.87   | 1.00 | 10      |
| EQPF67474 | 3/4  | 0.97   | 0.97 | 10      |



### BLACK STEEL HEX PLUGS

| Part #    | Size  | Length | Hex  | Pkg Qty |
|-----------|-------|--------|------|---------|
| EQPF67770 | 1/8   | 0.55   | 0.43 | 10      |
| EQPF67772 | 3/8   | 0.67   | 0.68 | 10      |
| EQPF67773 | 1/2   | 0.80   | 0.70 | 5       |
| EQPF67774 | 3/4   | 0.94   | 1.06 | 5       |
| EQPF67775 | 1     | 1.00   | 1.31 | 5       |
| EQPF67777 | 1-1/2 | 0.51   | 2.00 | 3       |





## BLACK STEEL HEX SOCKET PLUGS

| Part #    | Size | Length | Pkg Qty |
|-----------|------|--------|---------|
| EQPF67761 | 1/8  | 0.29   | 10      |
| EQPF67762 | 1/4  | 0.44   | 10      |
| EQPF67763 | 3/8  | 0.44   | 10      |
| EQPF67764 | 1/2  | 0.59   | 5       |



## BLACK &amp; GALVANIZED STEEL SQUARE PLUGS

| Black Part # | Galvanized Part # | Size | Thread Length | Square Height | Square Width | Pkg Qty |
|--------------|-------------------|------|---------------|---------------|--------------|---------|
| EQPF67670    | EQPF66670         | 1/8  | 0.33          | 0.24          | 0.28         | 10      |
| EQPF67671    | EQPF66671         | 1/4  | 0.45          | 0.38          | 0.37         | 10      |
| EQPF67672    | EQPF66672         | 3/8  | 0.50          | 0.31          | 0.43         | 10      |
| EQPF67653    | -                 | 1/2  | 0.59          | 0.38          | 0.55         | 5       |
| EQPF67654    | -                 | 3/4  | 0.63          | 0.44          | 0.62         | 5       |
| EQPF67655    | -                 | 1    | 0.75          | 0.50          | 0.81         | 5       |



## BLACK STEEL REDUCER BUSHINGS

| Part #    | Galvanized Part # | Size (M x F) | Length | Hex Size | Pkg Qty |
|-----------|-------------------|--------------|--------|----------|---------|
| EQPF67500 | EQPF66500         | 1/4 x 1/8    | 0.63   | 5/8      | 10      |
| EQPF67501 | -                 | 3/8 x 1/8    | 0.66   | 11/16    | 10      |
| EQPF67502 | EQPF66502         | 3/8 x 1/4    | 0.66   | 11/16    | 10      |
| EQPF67503 | -                 | 1/2 x 1/8    | 0.80   | 7/8      | 5       |
| EQPF67504 | EQPF66504         | 1/2 x 1/4    | 0.80   | 7/8      | 5       |
| EQPF67505 | EQPF66505         | 1/2 x 3/8    | 0.80   | 7/8      | 5       |
| EQPF67507 | -                 | 3/4 x 1/4    | 0.94   | 1-1/16   | 5       |
| EQPF67508 | -                 | 3/4 x 3/8    | 0.94   | 1-1/16   | 5       |
| EQPF67509 | EQPF66509         | 3/4 x 1/2    | 0.94   | 1-1/16   | 5       |



## PIPE FITTINGS

### BLACK & GALVANIZED IRON COUPLING

| Black Part # | Galvanized Part # | Size  | Length | Pkg Qty |
|--------------|-------------------|-------|--------|---------|
| EQPF65410    | EQPF64410         | 1/8   | 0.96   | 10      |
| EQPF65411    | EQPF64411         | 1/4   | 1.06   | 10      |
| EQPF65412    | EQPF64412         | 3/8   | 1.16   | 10      |
| EQPF65413    | EQPF64413         | 1/2   | 1.34   | 5       |
| EQPF65414    | EQPF64414         | 3/4   | 1.52   | 5       |
| EQPF65415    | EQPF64415         | 1     | 1.67   | 5       |
| EQPF65416    | -                 | 1-1/4 | 1.93   | 3       |
| EQPF65417    | -                 | 1-1/2 | 2.15   | 3       |
| EQPF65418    | -                 | 2     | 2.54   | 3       |



### BLACK IRON REDUCING COUPLINGS

| Part #    | Size      | Length | Pkg Qty | Part #    | Size      | Length | Pkg Qty |
|-----------|-----------|--------|---------|-----------|-----------|--------|---------|
| EQPF65430 | 1/4 x 1/8 | 1.00   | 10      | EQPF65436 | 3/4 x 1/4 | 1.44   | 5       |
| EQPF65431 | 3/8 x 1/8 | 1.13   | 10      | EQPF65437 | 3/4 x 3/8 | 1.44   | 5       |
| EQPF65432 | 3/8 x 1/4 | 1.13   | 10      | EQPF65438 | 3/4 x 1/2 | 1.44   | 5       |
| EQPF65433 | 1/2 x 1/8 | 1.25   | 5       | EQPF65459 | 1 x 1/4   | 1.69   | 5       |
| EQPF65434 | 1/2 x 1/4 | 1.25   | 5       | EQPF65440 | 1 x 3/8   | 1.69   | 5       |
| EQPF65435 | 1/2 x 3/8 | 1.25   | 5       | EQPF65441 | 1 x 1/2   | 1.69   | 5       |
| EQPF65439 | 3/4 x 1/8 | 1.44   | 5       | EQPF65442 | 1 x 3/4   | 1.69   | 5       |

### BLACK & GALVANIZED IRON UNIONS

| Black Part # | Galvanized Part # | Size  | Length | Pkg Qty |
|--------------|-------------------|-------|--------|---------|
| EQPF65600    | EQPF64600         | 1/8   | 1.26   | 10      |
| EQPF65601    | EQPF64601         | 1/4   | 1.44   | 10      |
| EQPF65602    | EQPF64602         | 3/8   | 1.61   | 10      |
| EQPF65603    | EQPF64603         | 1/2   | 1.72   | 5       |
| EQPF65604    | EQPF64604         | 3/4   | 1.94   | 5       |
| EQPF65605    | EQPF64605         | 1     | 2.06   | 5       |
| EQPF65606    | EQPF64606         | 1-1/4 | 2.26   | 3       |
| EQPF65607    | EQPF64607         | 1-1/2 | 2.41   | 3       |
| EQPF65608    | EQPF64608         | 2     | 2.75   | 3       |





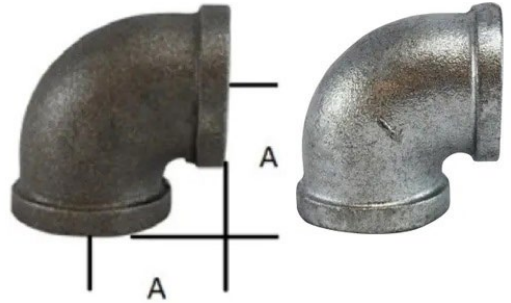
## BLACK &amp; GALVANIZED IRON REDUCER BUSHINGS

| Black Part # | Galvanized Part # | Size (M x F)  | Length | Hex Size | Pkg Qty |
|--------------|-------------------|---------------|--------|----------|---------|
| EQPF65506    | -                 | 3/4 x 1/8     | 0.85   | 1-5/32   | 5       |
| EQPF65507    | -                 | 3/4 x 1/4     | 0.85   | 1-5/32   | 5       |
| EQPF65508    | -                 | 3/4 x 3/8     | 0.85   | 1-5/32   | 5       |
| EQPF65509    | EQPF64509         | 3/4 x 1/2     | 0.93   | 1-5/32   | 5       |
| EQPF65510    | -                 | 1 x 1/4       | 1.13   | 1-1/8    | 5       |
| EQPF65511    | -                 | 1 x 3/8       | 1.13   | 1-1/8    | 5       |
| EQPF65512    | -                 | 1 x 1/2       | 1.10   | 1-7/16   | 5       |
| EQPF65513    | EQPF64513         | 1 x 3/4       | 1.10   | 1-7/16   | 5       |
| EQPF65514    | -                 | 1-1/4 x 1/4   | 1.24   | 1-1/8    | 3       |
| EQPF65515    | -                 | 1-1/4 x 3/8   | 1.24   | 1-1/8    | 3       |
| EQPF65516    | -                 | 1-1/4 x 1/2   | 1.24   | 1-1/4    | 3       |
| EQPF65517    | EQPF64517         | 1-1/4 x 3/4   | 1.08   | 1-3/4    | 3       |
| EQPF65518    | EQPF64518         | 1-1/4 x 1     | 1.08   | 1-3/4    | 3       |
| EQPF65519    | -                 | 1-1/2 x 1/4   | 1.30   | 1-1/8    | 3       |
| EQPF65520    | -                 | 1-1/2 x 3/8   | 1.30   | 1-1/8    | 3       |
| EQPF65521    | -                 | 1-1/2 x 1/2   | 1.30   | 1-11/32  | 3       |
| EQPF65522    | EQPF64522         | 1-1/2 x 3/4   | 1.30   | 1-7/16   | 3       |
| EQPF65523    | EQPF64523         | 1-1/2 x 1     | 1.23   | 2        | 3       |
| EQPF65524    | EQPF64524         | 1-1/2 x 1-1/4 | 1.23   | 2        | 3       |
| EQPF65525    | -                 | 2 x 3/8       | 1.28   | 1-1/8    | 3       |
| EQPF65527    | -                 | 2 x 1/2       | 1.39   | 1-11/32  | 3       |
| EQPF65528    | -                 | 2 x 3/4       | 1.39   | 1-5/8    | 3       |
| EQPF65529    | -                 | 2 x 1         | 1.39   | 1-3/4    | 3       |
| EQPF65530    | EQPF64530         | 2 x 1-1/4     | 1.50   | 2-1/2    | 3       |
| EQPF65531    | -                 | 2 x 1-1/2     | 1.50   | 2-1/2    | 3       |

## PIPE FITTINGS

### BLACK & GALVANIZED IRON 90° ELBOWS

| Black Part # | Galvanized Part # | Size  | A    | Pkg Qty |
|--------------|-------------------|-------|------|---------|
| EQPF65100    | EQPF64100         | 1/8   | 0.69 | 10      |
| EQPF65101    | EQPF64101         | 1/4   | 0.81 | 10      |
| EQPF65102    | EQPF64102         | 3/8   | 0.95 | 10      |
| EQPF65103    | EQPF64103         | 1/2   | 1.12 | 5       |
| EQPF65104    | EQPF64104         | 3/4   | 1.31 | 5       |
| EQPF65105    | EQPF64105         | 1     | 1.50 | 5       |
| EQPF65106    | EQPF64106         | 1-1/4 | 1.75 | 3       |
| EQPF65107    | EQPF64107         | 1-1/2 | 1.94 | 3       |
| EQPF65108    | EQPF64108         | 2     | 2.25 | 3       |



### BLACK & GALVANIZED IRON 45° ELBOWS

| Black Part # | Galvanized Part # | Size  | A    | Pkg Qty |
|--------------|-------------------|-------|------|---------|
| EQPF65180    | EQPF64180         | 1/8   | 0.63 | 10      |
| EQPF65181    | EQPF64181         | 1/4   | 0.73 | 10      |
| EQPF65182    | EQPF64182         | 3/8   | 0.80 | 10      |
| EQPF65183    | EQPF64183         | 1/2   | 0.88 | 5       |
| EQPF65184    | EQPF64184         | 3/4   | 0.98 | 5       |
| EQPF65185    | EQPF64185         | 1     | 1.12 | 5       |
| EQPF65186    | EQPF64186         | 1-1/4 | 1.29 | 3       |
| EQPF65187    | EQPF64187         | 1-1/2 | 1.43 | 3       |
| EQPF65188    | EQPF64188         | 2     | 1.68 | 3       |

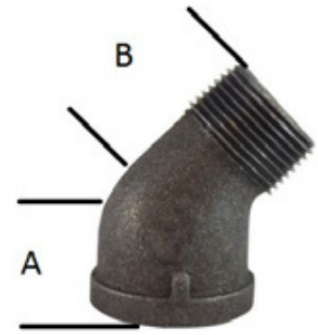


### BLACK & GALVANIZED IRON 90° STREET ELBOWS

| Black Part # | Galvanized Part # | Size  | A    | B    | Pkg Qty |
|--------------|-------------------|-------|------|------|---------|
| EQPF65160    | EQPF64160         | 1/8   | 0.69 | 1.00 | 10      |
| EQPF65161    | EQPF64161         | 1/4   | 0.80 | 1.17 | 10      |
| EQPF65162    | EQPF64162         | 3/8   | 0.95 | 1.48 | 10      |
| EQPF65163    | EQPF64163         | 1/2   | 1.10 | 1.59 | 5       |
| EQPF65164    | EQPF64164         | 3/4   | 1.28 | 1.85 | 5       |
| EQPF65165    | EQPF64165         | 1     | 1.47 | 2.10 | 5       |
| EQPF65166    | EQPF64166         | 1-1/4 | 1.75 | 2.57 | 3       |
| EQPF65167    | -                 | 1-1/2 | 1.90 | 2.63 | 3       |
| EQPF65168    | -                 | 2     | 2.21 | 3.19 | 3       |

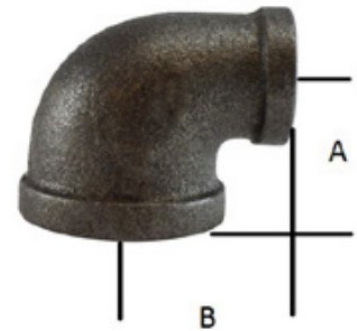
## BLACK IRON 45° STREET ELBOWS

| Part #    | Size  | A    | B    | Pkg Qty |
|-----------|-------|------|------|---------|
| EQPF65200 | 1/8   | 0.63 | 0.83 | 10      |
| EQPF65201 | 1/4   | 0.73 | 0.94 | 10      |
| EQPF65202 | 1/2   | 0.86 | 1.30 | 5       |
| EQPF65203 | 1/2   | 0.86 | 1.30 | 5       |
| EQPF65204 | 3/4   | 0.96 | 1.48 | 5       |
| EQPF65205 | 1     | 1.10 | 1.69 | 5       |
| EQPF65206 | 1-1/4 | 1.26 | 1.87 | 3       |
| EQPF65207 | 1     | 1.10 | 1.69 | 5       |
| EQPF65208 | 1-1/4 | 1.26 | 1.87 | 3       |



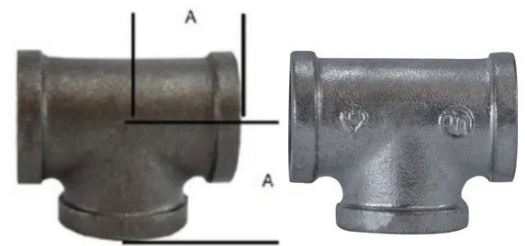
## BLACK IRON 90° REDUCING ELBOWS

| Part #    | Size      | A    | B    | Pkg Qty |
|-----------|-----------|------|------|---------|
| EQPF65122 | 3/8 x 1/4 | 0.88 | 0.90 | 10      |
| EQPF65123 | 1/2 x 1/4 | 0.97 | 0.98 | 5       |
| EQPF65124 | 1/2 x 3/8 | 1.04 | 1.03 | 5       |
| EQPF65130 | 1 x 1/2   | 1.26 | 1.40 | 5       |
| EQPF65134 | 1-1/4 x 1 | 1.58 | 1.67 | 3       |



## BLACK & GALVANIZED IRON TEES

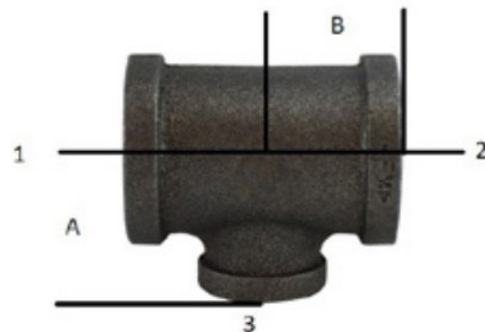
| Black Part # | Galvanized Part # | Size  | A    | Pkg Qty |
|--------------|-------------------|-------|------|---------|
| EQPF65250    | EQPF64250         | 1/8   | 0.69 | 10      |
| EQPF65251    | EQPF64251         | 1/4   | 0.81 | 10      |
| EQPF65252    | EQPF64252         | 3/8   | 0.95 | 10      |
| EQPF65253    | EQPF64253         | 1/2   | 1.12 | 5       |
| EQPF65254    | EQPF64254         | 3/4   | 1.31 | 5       |
| EQPF65255    | EQPF64255         | 1     | 1.50 | 5       |
| EQPF65256    | EQPF64256         | 1-1/4 | 1.75 | 3       |
| EQPF65257    | EQPF64257         | 1-1/2 | 1.94 | 3       |
| EQPF65258    | EQPF64258         | 2     | 2.26 | 3       |



## PIPE FITTINGS

### BLACK IRON REDUCING BRANCH TEES

| Part #    | Size (1 & 2) x 3 | A    | B     | Pkg Qty |
|-----------|------------------|------|-------|---------|
| EQPF65273 | 3/8 x 1/4        | 0.81 | 0.900 | 10      |
| EQPF65276 | 1/2 x 1/4        | 0.97 | 0.98  | 5       |
| EQPF65279 | 1/2 x 3/8        | 1.04 | 1.03  | 5       |
| EQPF65282 | 3/4 x 1/4        | 1.05 | 1.08  | 5       |
| EQPF65283 | 3/4 x 3/8        | 1.12 | 1.13  | 5       |
| EQPF65268 | 1 x 1/4          | 1.11 | 1.22  | 5       |
| EQPF65269 | 1 x 3/8          | 1.18 | 1.27  | 5       |
| EQPF65291 | 1 x 1/2          | 1.26 | 1.40  | 5       |
| EQPF65328 | 2 x 3/4          | 1.60 | 1.97  | 3       |



### BLACK IRON CROSSES

| Part #    | Size  | Length | Pkg Qty |
|-----------|-------|--------|---------|
| EQPF65390 | 1/8   | 1.30   | 10      |
| EQPF65391 | 1/4   | 1.60   | 10      |
| EQPF65393 | 1/2   | 2.24   | 5       |
| EQPF65394 | 3/4   | 2.62   | 5       |
| EQPF65395 | 1     | 1.50   | 5       |
| EQPF65396 | 1-1/4 | 1.75   | 3       |
| EQPF65397 | 1-1/2 | 1.94   | 3       |
| EQPF65398 | 2     | 2.25   | 3       |



### BLACK & GALVANIZED IRON CAPS

| Black Part # | Galvanized Part # | Size  | Length | Pkg Qty |
|--------------|-------------------|-------|--------|---------|
| EQPF65470    | -                 | 1/8   | 0.55   | 10      |
| EQPF65471    | EQPF64471         | 1/4   | 0.62   | 10      |
| EQPF65472    | EQPF64472         | 3/8   | 0.74   | 10      |
| EQPF65473    | EQPF64473         | 1/2   | 0.87   | 5       |
| EQPF65474    | EQPF64474         | 3/4   | 0.97   | 5       |
| EQPF65475    | EQPF64475         | 1     | 1.16   | 5       |
| EQPF65476    | EQPF64476         | 1-1/4 | 1.28   | 3       |
| EQPF65477    | -                 | 1-1/2 | 1.33   | 3       |
| EQPF65478    | -                 | 2     | 1.45   | 3       |



# PIPE FITTINGS, STEEL HEX NIPPLES, STEEL HOSE MENDER, STEEL KING NIPPLES



## BLACK & GALVANIZED IRON SQUARE PLUGS

| Black Part # | Galvanized Part # | Size  | Thread Length | Square Height | Square Width | Pkg Qty |
|--------------|-------------------|-------|---------------|---------------|--------------|---------|
| EQPF65653    | EQPF64653         | 1/2   | 0.58          | 0.38          | 0.56         | 5       |
| EQPF65654    | EQPF64654         | 3/4   | 0.65          | 0.44          | 0.63         | 5       |
| EQPF65655    | -                 | 1     | 0.75          | 0.50          | 0.82         | 5       |
| EQPF65656    | EQPF64656         | 1-1/4 | 0.82          | 0.56          | 0.94         | 3       |
| EQPF65657    | EQPF64657         | 1-1/2 | 0.85          | 0.62          | 1.13         | 3       |
| EQPF65658    | EQPF64658         | 2     | 0.98          | 0.68          | 1.31         | 3       |

## STEEL HEX NIPPLES

### MALE BSPP X MNPT

| Part #       | Size     | Pkg Qty |
|--------------|----------|---------|
| EQHF38251616 | 1-11 x 1 | 10      |



## STEEL HOSE MENDER

### ZINC PLATED

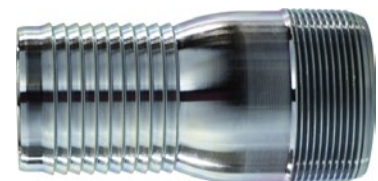
| Part #     | Size | Pkg Qty |
|------------|------|---------|
| EQPF973651 | 1/2  | 5       |
| EQPF973652 | 3/4  | 5       |
| EQPF973653 | 1    | 5       |



## STEEL KING NIPPLES

### ZINC PLATED

| Part #     | Size (Hose x MIP) | Length | Hex    | Pkg Qty |
|------------|-------------------|--------|--------|---------|
| EQPF973870 | 1/2 x 1/2         | 3-1/4  | 3/4    | 5       |
| EQPF973871 | 3/4 x 3/4         | 3-1/8  | 15/16  | 5       |
| EQPF973872 | 1 x 1             | -      | -      | 5       |
| EQPF973873 | 1-1/4 x 1-1/4     | 3-7/8  | 1-7/16 | 3       |
| EQPF973874 | 1-1/2 x 1-1/2     | 3-7/8  | 1-5/8  | 3       |
| EQPF973875 | 2 x 2             | 4-1/2  | -      | 3       |



## PNEUMATIC FITTINGS & QUICK DISCONNECTS

### PNEUMATIC FITTINGS & QUICK DISCONNECTS

These couplings are widely used to connect compressed air and low pressure fluid lines. They are rated for 250# PSI and -4° to 176°F.

#### BRASS FEMALE COUPLER INDUSTRIAL INTERCHANGE

| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28540 | 1/4       | 1/4         | 10      |
| EQAF28541 | 1/4       | 3/8         | 10      |



#### BRASS MALE COUPLER INDUSTRIAL INTERCHANGE

| Part #    | Body Size | Thread Size |
|-----------|-----------|-------------|
| EQAF28553 | 1/4       | 3/8         |



#### STEEL FEMALE COUPLER INDUSTRIAL INTERCHANGE

| Part #     | Body Size | Thread Size | Pkg Qty |
|------------|-----------|-------------|---------|
| EQAF28540S | 1/4       | 1/4         | 10      |
| EQAF98810  | 3/8       | 1/4         | 10      |
| EQAF98811  | 3/8       | 3/8         | 10      |
| EQAF99812  | 1/2       | 1/2         | 5       |



#### STEEL MALE COUPLER INDUSTRIAL INTERCHANGE

| Part #     | Body Size | Thread Size | Pkg Qty |
|------------|-----------|-------------|---------|
| EQAF28552S | 1/4       | 1/4         | 10      |
| EQAF28553S | 1/4       | 3/8         | 10      |
| EQAF99825  | 1/2       | 1/2         | 3       |



#### STEEL FEMALE PLUG INDUSTRIAL INTERCHANGE

| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28534 | 1/4       | 1/4         | 10      |





## STEEL MALE PLUG INDUSTRIAL INTERCHANGE

| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28546 | 1/4       | 1/4         | 10      |
| EQAF28547 | 1/4       | 3/8         | 10      |
| EQAF98814 | 3/8       | 1/4         | 10      |
| EQAF98815 | 3/8       | 3/8         | 10      |
| EQAF99816 | 1/2       | 1/2         | 5       |



## STEEL PUSH ON HOSE BARB COUPLER INDUSTRIAL INTERCHANGE

| Part #     | Body Size | Thread Size | Pkg Qty |
|------------|-----------|-------------|---------|
| EQAF28565S | 1/4       | 1/4         | 10      |
| EQAF28566S | 1/4       | 3/8         | 10      |
| EQAF98842  | 3/8       | 3/8         | 10      |



## STEEL PUSH ON HOSE BARB PLUG INDUSTRIAL INTERCHANGE

| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28558 | 1/4       | 1/4         | 10      |
| EQAF28561 | 1/4       | 3/8         | 10      |
| EQAF98830 | 3/8       | 3/8         | 10      |



## STEEL HOSE BARB PLUG INDUSTRIAL INTERCHANGE

| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28557 | 1/4       | 1/4         | 10      |
| EQAF28559 | 1/4       | 3/8         | 10      |
| EQAF98828 | 3/8       | 3/8         | 10      |



## STEEL HOSE BARB COUPLER FEMALE INDUSTRIAL INTERCHANGE

| Part #     | Body Size | Thread Size | Pkg Qty |
|------------|-----------|-------------|---------|
| EQAF28562S | 1/4       | 1/4         | 10      |
| EQAF28564S | 1/4       | 3/8         | 10      |



## STEEL FIP COUPLER FEMALE PARKER INTERCHANGE

| Part #     | Body Size | Thread Size | Pkg Qty |
|------------|-----------|-------------|---------|
| EQAF28525S | 3/8       | 1/4         | 10      |
| EQAF28526S | 3/8       | 3/8         | 10      |
| EQAF28514S | 3/8       | 1/4         | 10      |

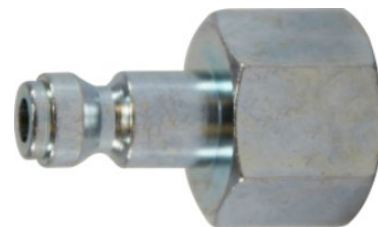




# PNEUMATIC FITTINGS & QUICK DISCONNECTS

## STEEL FIP PLUG FEMALE PARKER INTERCHANGE

| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28503 | 3/8       | 1/4         | 10      |
| EQAF28504 | 3/8       | 3/8         | 10      |



## STEEL MPT PLUG MALE PARKER INTERCHANGE

| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28512 | 3/8       | 1/4         | 10      |
| EQAF28513 | 3/8       | 3/8         | 10      |



## BRASS FEMALE COUPLER ARO 210 INTERCHANGE

| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28584 | 1/4       | 1/4         | 10      |



## STEEL FEMALE PLUG ARO 210 INTERCHANGE

| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28578 | 1/4       | 1/4         | 10      |



## STEEL MALE PLUG ARO 210 INTERCHANGE

| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28587 | 1/4       | 1/4         | 10      |



## BALL FOOT CHUCK

| Part #    | Thread Size | Pkg Qty |
|-----------|-------------|---------|
| EQAF46600 | 1/4         | 10      |



## ANGLE FOOT CHUCK

| Part #     | Thread Size | Pkg Qty |
|------------|-------------|---------|
| EQAF320005 | 1/4         | 5       |



## ERGONOMIC PISTOL GRIP BLOW GUN • 3" NOZZLE

| Part #     | Thread Size |
|------------|-------------|
| EQAF320036 | 1/4         |



## HEAVY DUTY SAFETY BLOW GUN

| Part #     | Thread Size | Pkg Qty |
|------------|-------------|---------|
| EQAF320054 | 1/4         | 3       |



## HOSE CLAMPS

### WORM GEAR • PART STAINLESS

These hose clamps are part stainless steel. The band is stainless steel and the screw and the screw housing are zinc plated steel. The #4 and #6 hose clamps have a 5/16" wide band, the #8 through #36 hose clamps have a 1/2" wide band, and the #40 through #104 hose clamps have a 9/16" wide band.



| Part #  | Size | Clamp Range   | Box Quantity | Part # | Size | Clamp Range     | Box Quantity |
|---------|------|---------------|--------------|--------|------|-----------------|--------------|
| AHC004  | #4   | 7/32 - 5/8    | 10           | AHC032 | #32  | 1-9/16 - 2-1/2  | 10           |
| AHC006  | #6   | 7/16 - 25/32  | 10           | AHC036 | #36  | 1-13/16 - 2-3/4 | 10           |
| AHC006W | #6   | 7/16 - 25/32  | 10           | AHC040 | #40  | 2 - 3           | 10           |
| AHC008  | #8   | 7/16 - 1      | 10           | AHC044 | #44  | 2-1/4 - 3-1/4   | 10           |
| AHC010  | #10  | 1/2 - 1-1/16  | 10           | AHC048 | #48  | 2-1/2 - 3-1/2   | 10           |
| AHC012  | #12  | 1/2 - 1-1/4   | 10           | AHC052 | #52  | 2-3/4 - 3-3/4   | 10           |
| AHC016  | #16  | 11/16 - 1-1/2 | 10           | AHC056 | #56  | 2-1/8 - 4       | 10           |
| AHC020  | #20  | 3/4 - 1-3/4   | 10           | AHC064 | #64  | 2-1/2 - 4-1/2   | 10           |
| AHC024  | #24  | 1-1/16 - 2    | 10           | AHC072 | #72  | 3 - 5           | 10           |
| AHC028  | #28  | 1-1/4 - 2-1/4 | 10           | AHC104 | #104 | 5 - 7           | 10           |

# HOSE CLAMPS

HOSES & FITTINGS

## WORM GEAR - ALL STAINLESS

These hose clamps are all stainless steel. The #4 and #6 hose clamps have a 5/16" wide band, the #8 through #36 hose clamps have a 1/2" wide band.



| Part #   | Size | Clamp Range   | Box Quantity | Part #   | Size | Clamp Range     | Box Quantity |
|----------|------|---------------|--------------|----------|------|-----------------|--------------|
| AHCSS004 | #4   | 1/4 - 5/8     | 10           | AHCSS028 | #28  | 1-5/16 - 2-1/4  | 10           |
| AHCSS005 | #5   | 5/16 - 7/8    | 10           | AHCSS032 | #32  | 1-9/16 - 2-1/2  | 10           |
| AHCSS006 | #6   | 7/16 - 25/32  | 10           | AHCSS036 | #36  | 1-13/16 - 2-3/4 | 10           |
| AHCSS008 | #8   | 7/16 - 29/32  | 10           | AHCSS040 | #40  | 2-1/16 - 3      | 10           |
| AHCSS010 | #10  | 9/16 - 1-1/16 | 10           | AHCSS052 | #52  | 2-13/16 - 3-3/4 | 10           |
| AHCSS012 | #12  | 11/16 - 1-1/4 | 10           | AHCSS056 | #56  | 3-1/16 - 4      | 10           |
| AHCSS016 | #16  | 3/4 - 1-1/2   | 10           | AHCSS064 | #64  | 3-9/16 - 4-1/2  | 10           |
| AHCSS020 | #20  | 13/16 - 1-3/4 | 10           | AHCSS072 | #72  | 3 - 5           | 10           |
| AHCSS024 | #24  | 1-1/16 - 2    | 10           |          |      |                 |              |

## SPRING ACTION - SPRING STEEL

| Part #  | Size | Box Quantity |
|---------|------|--------------|
| AV12684 | 1/2  | 100          |



## QUICK RELEASE

| Part #   | Clamp Range      |
|----------|------------------|
| AHCQR128 | 1-3/4 - 8-9/16   |
| AHCQR188 | 2-1/16 - 12-5/16 |
| AHCQR216 | 10-3/16 - 14     |
| AHCQR248 | 1-3/4 - 16       |



## QUICK RELEASE - ALL STAINLESS

| Part #     | Clamp Range |
|------------|-------------|
| AHCQRSS248 | 2 - 16.63   |



## T-BOLT CLAMPS



### STAINLESS STEEL

| Part #    | Size | Clamp Range | Part #    | Size | Clamp Range |
|-----------|------|-------------|-----------|------|-------------|
| ASSTBC156 | 1.5  | 1.31-1.56   | ASSTBC387 | 3.78 | 3.56-3.87   |
| ASSTBC187 | 1.75 | 1.62-1.87   | ASSTBC394 | 3.85 | 3.63-3.94   |
| ASSTBC206 | 2    | 1.81-2.06   | ASSTBC412 | 4    | 3.81-4.12   |
| ASSTBC225 | 2.15 | 1.94-2.25   | ASSTBC437 | 4.25 | 4.06-4.37   |
| ASSTBC237 | 2.25 | 2.06-2.37   | ASSTBC462 | 4.5  | 4.31-4.62   |
| ASSTBC262 | 2.5  | 2.31-2.62   | ASSTBC487 | 4.75 | 4.56-4.87   |
| ASSTBC287 | 2.75 | 2.56-2.87   | ASSTBC512 | 5    | 4.81-4.52   |
| ASSTBC312 | 3    | 2.81-3.12   | ASSTBC562 | 5.5  | 5.31-5.62   |
| ASSTBC337 | 3.25 | 3.06-3.37   | ASSTBC812 | 8    | 7.81-8.12   |
| ASSTBC359 | 3.5  | 3.28-3.59   |           |      |             |

## SPRING LOADED T-BOLT CLAMPS

### STAINLESS STEEL

| Part #     | Size | Clamp Range |
|------------|------|-------------|
| ASSTBCS337 | 3.25 | 3.06-3.37   |
| ASSTBCS359 | 3.5  | 3.28-3.59   |



# MUFFLER CLAMPS, MUFFLER HANGERS

## MUFFLER CLAMPS

### HEAVY DUTY

Heavy Duty Muffler Clamps feature a 3/8 U-bolt.

| Part # | Size  | Case Quantity |
|--------|-------|---------------|
| AMC12  | 1-1/2 | 50            |
| AMC14  | 1-3/4 | 50            |
| AMC15  | 1-7/8 | 50            |
| AMC16  | 2     | 50            |
| AMC17  | 2-1/8 | 50            |

| Part # | Size  | Case Quantity |
|--------|-------|---------------|
| AMC18  | 2-1/4 | 50            |
| AMC20  | 2-1/2 | 50            |
| AMC24  | 3     | 50            |
| AMC28  | 3-1/2 | 50            |
| AMC32  | 4     | 50            |



## MUFFLER HANGERS

### SWIVELER

| Part # | Description             |
|--------|-------------------------|
| ASWL   | SWIVELER MUFFLER HANGER |



HOSES & FITTINGS

## BRAKE LINES

## POLY-VINYL COATED STEEL

Poly-Vinyl Coated Steel Brake Line has a rust and abrasion preventative coating which gives up to 30 times the corrosion protection.



| Part #   | Size       | Tube Quantity | Part #    | Size                  | Tube Quantity |
|----------|------------|---------------|-----------|-----------------------|---------------|
| ABLP0308 | 3/16 x 8"  | 10            | ABLP0520  | 5/16 x 20"            | 5             |
| ABLP0312 | 3/16 x 12" | 10            | ABLP0530  | 5/16 x 30"            | 5             |
| ABLP0320 | 3/16 x 20" | 10            | ABLP0540  | 5/16 x 40"            | 5             |
| ABLP0330 | 3/16 x 30" | 10            | ABLP0551  | 5/16 x 51"            | 5             |
| ABLP0340 | 3/16 x 40" | 10            | ABLP0560  | 5/16 x 60"            | 5             |
| ABLP0351 | 3/16 x 51" | 10            | ABLCP0325 | 3/16 x 25' COIL       | -             |
| ABLP0360 | 3/16 x 60" | 10            | ABLCP0425 | 1/4 x 25' COIL        | -             |
| ABLP0408 | 1/4 x 8"   | 10            | ABLCP0525 | 5/16 x 25' COIL       | -             |
| ABLP0412 | 1/4 x 12"  | 10            | ABLCP0625 | 3/8 x 25' COIL        | -             |
| ABLP0420 | 1/4 x 20"  | 10            | ABLN03    | 3/16 BRAKE LINE NUT   | 10            |
| ABLP0430 | 1/4 x 30"  | 10            | ABLN04    | 1/4 BRAKE LINE NUT    | 10            |
| ABLP0440 | 1/4 x 40"  | 10            | ABLN05    | 5/16 BRAKE LINE NUT   | 5             |
| ABLP0451 | 1/4 x 51"  | 10            | ABLN06    | 3/8 BRAKE LINE NUT    | 10            |
| ABLP0460 | 1/4 x 60"  | 10            | ABLU03    | 3/16 BRAKE LINE UNION | -             |
| ABLP0508 | 5/16 x 8"  | 5             | ABLU04    | 1/4 BRAKE LINE UNION  | 5             |
| ABLP0512 | 5/16 x 12" | 5             | ABLU06    | 3/8 BRAKE LINE UNION  | 10            |

## PREMIUM FUEL LINE

## THERMOID HOSE

| Part #   | Size | Roll Size |
|----------|------|-----------|
| AFLT3    | 3/16 | 25'       |
| AFLT4    | 1/4  | 25'       |
| AFLT5    | 5/16 | 25'       |
| AFLT6    | 3/8  | 25'       |
| AFLT4250 | 1/4  | 250'      |
| AFLT5250 | 5/16 | 250'      |
| AFLT6250 | 3/8  | 250'      |



# AIR BRAKE TUBING, HEATER HOSE, AIR HOSE

## AIR BRAKE TUBING

### NYLON • DOT

| Part #    | Size | Roll Size |
|-----------|------|-----------|
| EQBT38952 | 1/4  | 100'      |
| EQBT38960 | 3/8  | 100'      |



## HEATER HOSE

### HEATER HOSE

| Part #  | Size | Roll Size |
|---------|------|-----------|
| AHH4    | 1/2  | 50'       |
| AHH5    | 5/8  | 50'       |
| AHH5250 | 5/8  | 250'      |
| AHH6    | 3/4  | 50'       |
| AHH6250 | 3/4  | 250'      |



### PREMIUM RED

| Part # | Size | Roll Size |
|--------|------|-----------|
| AHHR4  | 1/2  | 50'       |
| AHHR5  | 5/8  | 50'       |
| AHHR6  | 3/4  | 50'       |



## AIR HOSE

### COILED NYLON • 200 PSI

| Part #     | Size | Hose Length | Discount Qty |
|------------|------|-------------|--------------|
| EQAF307030 | 1/4  | 25'         | 3            |
| EQAF307031 | 1/4  | 50'         | 3            |



HOSES & FITTINGS

## WINDSHIELD WIPER

### WINDSHIELD WIPER/VACUUM TUBING

| Part #     | Size | Fits Nipple | Roll Size |
|------------|------|-------------|-----------|
| AWVTAGW18  | 7/64 | 1/8         | 50'       |
| AWVTAGW516 | 9/32 | 5/16        | 50'       |



## ASSORTMENTS

### DOT PUSH-IN AIR BRAKE FITTING ASSORTMENTS

| Part #      | Description                                                               |
|-------------|---------------------------------------------------------------------------|
| EQBFDOA04   | 1/4 DOT Push In Air Brake Fitting Assortment 42 pcs (2 of each size)      |
| EQBFDOA06   | 3/8 DOT Push In Air Brake Fitting Assortment 42 pcs (2 of each size)      |
| EQBFDOA08   | 1/2 DOT Push In Air Brake Fitting Assortment 21 pcs (1 of each size)      |
| EQBFDOA1012 | 5/8 & 3/4 DOT Push In Air Brake Fitting Assortment 17pcs (1 of each size) |



### BRASS FITTING ASSORTMENTS

| Part #    | Description                        |
|-----------|------------------------------------|
| EQBFA08   | 1/8 Brass Fitting Assortment       |
| EQBFA24   | 3/8 Brass Fitting Assortment       |
| EQBFA32   | 1/2 Brass Fitting Assortment       |
| EQBF32A80 | Hose Barb Fitting Assortment 80pcs |
| EQAFA34   | Air Fitting Assortment 34pcs       |

### HOSE CLAMP ASSORTMENT

| Part # | Description                                         |
|--------|-----------------------------------------------------|
| AHCA   | Hose Clamp Assortment 7 sizes (7/32 - 2-3/4) 70 pc. |



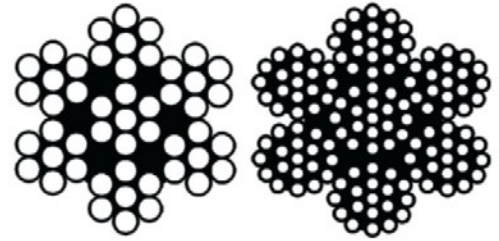




## A collection of various industrial lifting and rigging equipment is displayed on a reflective black surface. The items include a large spool of silver wire rope with a yellow top flange, a black hydraulic hoist with a silver hook, a silver shackle, a yellow lifting strap, a silver pulley, and various other metal components like shackles, pulleys, and a white plastic cap. The equipment is arranged in a cluster, with the hoist standing upright and the other components scattered around its base and to the left. The reflective surface creates clear mirror images of the objects below them.

# GALVANIZED STEEL CABLE, 304 STAINLESS STEEL CABLE

## GALVANIZED STEEL CABLE



7 x 7

7 x 19

We only sell cable by the roll. If an exact length is needed we can special order it.

| Part #       | Size | Construction | Feet per Roll | Working Load Limit* | Part #    | Size | Construction | Feet per Roll | Working Load Limit* |
|--------------|------|--------------|---------------|---------------------|-----------|------|--------------|---------------|---------------------|
| EQGC1250     | 1/16 | 7 x 7        | 250'          | 96                  | EQGC4250  | 1/4  | 7 x 19       | 250'          | 1400                |
| EQGC1500     | 1/16 | 7 x 7        | 500'          | 96                  | EQGC4500  | 1/4  | 7 x 19       | 500'          | 1400                |
| EQGC15500    | 3/32 | 7 x 7        | 500'          | 184                 | EQGC41000 | 1/4  | 7 x 19       | 1000'         | 1400                |
| EQGC20707500 | 1/8  | 7 x 7        | 500'          | 340                 | EQGC5250  | 5/16 | 7 x 19       | 250'          | 1960                |
| EQGC2250     | 1/8  | 7 x 19       | 250'          | 400                 | EQGC5500  | 5/16 | 7 x 19       | 500'          | 1960                |
| EQGC3250     | 3/16 | 7 x 19       | 250'          | 840                 | EQGC6250  | 3/8  | 7 x 19       | 250'          | 2880                |
| EQGC3500     | 3/16 | 7 x 19       | 500'          | 840                 | EQGC6500  | 3/8  | 7 x 19       | 500'          | 2880                |
| EQGC31000    | 3/16 | 7 x 19       | 1000'         | 840                 |           |      |              |               |                     |

\*Working load limit is based on a design factor of 5:1. Never exceed working load limit!

## 304 STAINLESS STEEL CABLE



7 x 7

7 x 19

We only sell cable by the roll. If an exact length is needed we can special order it.

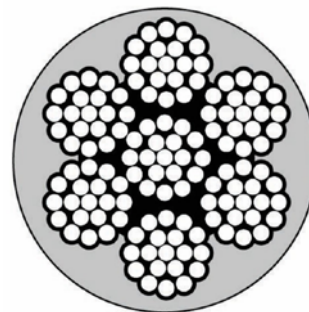
| Part #        | Size | Construction | Feet per Roll | Working Load Limit* | Part #         | Size | Construction | Feet per Roll | Working Load Limit* |
|---------------|------|--------------|---------------|---------------------|----------------|------|--------------|---------------|---------------------|
| EQSSC1250     | 1/16 | 7 x 7        | 250'          | 96                  | EQSSC207075000 | 1/8  | 7 x 7        | 5000'         | 340                 |
| EQSSC12500    | 1/16 | 7 x 7        | 2500'         | 96                  | EQSSC3250      | 3/16 | 7 x 19       | 250'          | 740                 |
| EQSSC15250    | 3/32 | 7 x 7        | 250'          | 184                 | EQSSC3500      | 3/16 | 7 x 19       | 500'          | 740                 |
| EQSSC15500    | 3/32 | 7 x 7        | 500'          | 184                 | EQSSC31000     | 3/16 | 7 x 19       | 1000'         | 740                 |
| EQSSC155000   | 3/32 | 7 x 7        | 5000'         | 184                 | EQSSC4250      | 1/4  | 7 x 19       | 250'          | 1280                |
| EQSSC2500     | 1/8  | 7 x 7        | 500'          | 340                 | EQSSC5250      | 5/16 | 7 x 19       | 250'          | 1800                |
| EQSSC21000    | 1/8  | 7 x 7        | 1000'         | 340                 |                |      |              |               |                     |
| EQSSC20707250 | 1/8  | 7 x 7        | 250'          | 340                 |                |      |              |               |                     |

\*Working load limit is based on a design factor of 5:1. Never exceed working load limit!

# CLEAR VINYL COATED GALVANIZED STEEL CABLE, PLAIN EXTRA IMPROVED PLOW STEEL CABLE, POWDERED METAL BUSHINGS

## CLEAR VINYL COATED GALVANIZED STEEL CABLE

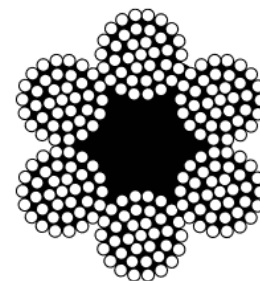
| Part #     | Size                     | Construction | Feet per Roll | Working Load Limit* |
|------------|--------------------------|--------------|---------------|---------------------|
| EQGC2250V  | 1/8 Vinyl Coated to 3/16 | 7 x 19       | 250'          | 400                 |
| EQGC2500V  | 1/8 Vinyl Coated to 3/16 | 7 x 19       | 500'          | 400                 |
| EQGC21000V | 1/8 Vinyl Coated to 3/16 | 7 x 19       | 1000'         | 400                 |



## PLAIN EXTRA IMPROVED PLOW STEEL CABLE

| Part #          | Size | Construction | Feet per Roll | Working Load Limit* |
|-----------------|------|--------------|---------------|---------------------|
| EQPC5636EIP5000 | 5/16 | 6 x 36       | 5000'         | 3020                |
| EQPC6636EIP250  | 3/8  | 6 x 36       | 250'          | 3020                |

\*Working load limit is based on a design factor of 5:1. Never exceed working load limit!



## POWDERED METAL BUSHINGS

These Powdered Metal Bushings are specifically designed for use with the steel wire rope pulleys below.

| Part #     | Size              |
|------------|-------------------|
| EQ151-0817 | 1/2 x 7/8 x 17/32 |
| EQ151-0821 | 1/2 x 7/8 x 21/32 |
| EQ151-0825 | 1/2 x 7/8 x 25/32 |
| EQ151-1017 | 5/8 x 7/8 x 17/32 |
| EQ151-1021 | 5/8 x 7/8 x 21/32 |
| EQ151-1025 | 5/8 x 7/8 x 25/32 |
| EQ151-1214 | 3/4 x 1-1/4 x 7/8 |
| EQ151-1221 | 3/4 x 7/8 x 21/32 |
| EQ151-1225 | 3/4 x 7/8 x 25/32 |
| EQ151-1414 | 7/8 x 1-1/4 x 7/8 |



# WIRE ROPE PULLEYS, WIRE ROPE BLOCKS

## WIRE ROPE PULLEYS

### STEEL

The 2" to 4" wire rope pulleys on the following table are made of low carbon steel and are designed with a 7/8" stock bore to receive a press fit on the 7/8" OD powdered metal bushings. The 5" to 10" wire rope pulleys are made of medium carbon steel and are designed with a 1 1/4" stock bore to receive a press fit on the 1 1/4" OD powdered metal bushings.

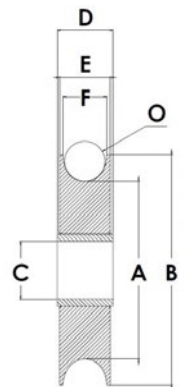


| Part #     | G & G Part # | OD    | Width | Cable Sizes | Part #     | G & G Part # | OD | Width | Cable Sizes |
|------------|--------------|-------|-------|-------------|------------|--------------|----|-------|-------------|
| EQ150-3221 | 150-3221     | 2     | 21/32 | 5/16 & 3/8  | EQ150-8006 | 150-8006     | 5  | 7/8   | 5/16 & 3/8  |
| EQ150-4021 | 150-4021     | 2-1/2 | 21/32 | 5/16 & 3/8  | EQ150-8008 | 150-8008     | 5  | 7/8   | 7/16 & 1/2  |
| EQ150-4025 | 150-4025     | 2-1/2 | 25/32 | 7/16 & 1/2  | EQ150-9608 | 150-9608     | 6  | 7/8   | 7/16 & 1/2  |
| EQ150-4821 | 150-4821     | 3     | 21/32 | 5/16 & 3/8  | EQ15011208 | 15011208     | 7  | 7/8   | 7/16 & 1/2  |
| EQ150-5621 | 150-5621     | 3-1/2 | 21/32 | 5/16 & 3/8  | EQ15012808 | 15012808     | 8  | 7/8   | 7/16 & 1/2  |
| EQ150-6421 | 150-6421     | 4     | 21/32 | 5/16 & 3/8  | EQ15014408 | 15014408     | 9  | 7/8   | 7/16 & 1/2  |

### STEEL WITH BRONZE BUSHINGS

Our Wire Rope Pulleys w/Bronze Bushings are manufactured by Block Division. Block Division manufactures many different types of wire rope pulleys and blocks. Call us for price and availability if you don't see what you need.

| Part #    | Block Part # | Max Cable | A   | B   | C   | D     | E    | F    | Working Load |
|-----------|--------------|-----------|-----|-----|-----|-------|------|------|--------------|
| EQSWRBB20 | 00258        | 1/4       | 2   | 2.5 | 1/2 | 15/32 | 7/16 | 5/16 | 685 LBS.     |
| EQSWRBB24 | 00308        | 1/4       | 2.5 | 3   | 1/2 | 15/32 | 7/16 | 5/16 | 525 LBS.     |

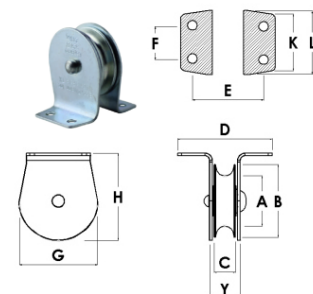


## WIRE ROPE BLOCKS

Our Wire Rope Blocks are manufactured by Block Division. Block Division also manufactures the following wire rope blocks: Swivel Eye Block, Flat Mount Block, Fixed Eye Block, and Swivel Hook Block, all in Single and Double Sheave 1 1/2"-5"

### FLAT MOUNT

| Part #  | Block Part # | Pulley OD | Max Cable Size |
|---------|--------------|-----------|----------------|
| EQFMB12 | 01558        | 1-1/2     | 3/16           |
| EQFMB16 | 02058        | 2         | 3/16           |



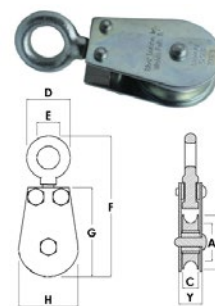
## DIMENSIONS

| Model # | Max Cable | A     | B     | C    | D | E     | F     | G     | H     | K    | L     | Working Load |
|---------|-----------|-------|-------|------|---|-------|-------|-------|-------|------|-------|--------------|
| 01558   | 3/16      | 1     | 1 1/2 | 7/16 | 2 | 17/16 | 11/16 | 15/8  | 17/8  | 11/8 | 13/8  | 525 LBS.     |
| 02058   | 3/16      | 1 1/2 | 2     | 7/16 | 2 | 17/16 | 11/16 | 2 1/8 | 2 3/8 | 11/8 | 1 1/2 | 600 LBS.     |

# WIRE ROPE BLOCKS, WIRE ROPE CLIPS (CABLE CLAMPS), STAINLESS STEEL WIRE ROPE CLIPS (CABLE CLAMPS)

## SWIVEL EYE

| Part #  | Block Part # | Pulley OD | Max Cable Size |
|---------|--------------|-----------|----------------|
| EQSEB12 | 01548        | 1-1/2     | 3/16           |



## DIMENSIONS

| Model #  | Max Cable | A | B     | C    | D     | E   | F       | G      | H     | Working Load |
|----------|-----------|---|-------|------|-------|-----|---------|--------|-------|--------------|
| 01548    | 3/16      | 1 | 1 1/2 | 7/16 | 1 1/4 | 5/8 | 3 13/16 | 2 7/16 | 1 5/8 | 525 LBS.     |
| 01548-F1 | 3/16      | 1 | 1 1/2 | 7/16 | 1 1/4 | 5/8 | 3 13/16 | 2 7/16 | 1 5/8 | 525 LBS.     |

## WIRE ROPE CLIPS (CABLE CLAMPS)

Malleable Cable Clamps are intended for use in making an eye termination in cable. Such assembly is for non-critical light duty use so no efficiency rating is given. The base is made of of cast iron and the U-bolt and nuts are steel.

| Part # | Size | Min # of Clips per Eye | Required Torque Ft. Lbs. |
|--------|------|------------------------|--------------------------|
| EQCC1  | 1/16 | 2                      | 1.5                      |
| EQCC2  | 1/8  | 3                      | 3                        |
| EQCC3  | 3/16 | 3                      | 4.5                      |
| EQCC4  | 1/4  | 3                      | 15                       |
| EQCC5  | 5/16 | 3                      | 15                       |
| EQCC6  | 3/8  | 3                      | 30                       |
| EQCC8  | 1/2  | 4                      | 45                       |



## STAINLESS STEEL WIRE ROPE CLIPS (CABLE CLAMPS)

Stainless Steel Wire Rope Clips are intended for use in making an eye termination in cable. The efficiency rating of a properly prepared termination is 80% of the cable's strength.

| Part #  | Size | Min # of Clips per Eye | Amount of Rope to Turn Back |
|---------|------|------------------------|-----------------------------|
| EQSSCC2 | 1/8  | 2                      | 3 1/4                       |
| EQSSCC3 | 3/16 | 2                      | 3 3/4                       |
| EQSSCC4 | 1/4  | 2                      | 4 3/4                       |
| EQSSCC5 | 5/16 | 2                      | 5 1/4                       |
| EQSSCC6 | 3/8  | 2                      | 6 1/2                       |





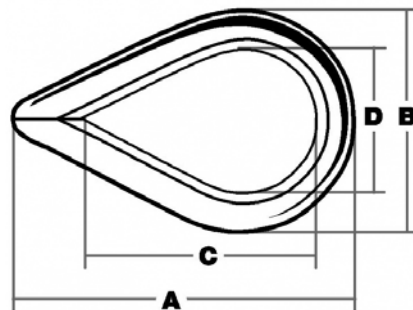
# WIRE ROPE THIMBLES, WIRE ROPE SLEEVES, WIRE ROPE STOPS

## WIRE ROPE THIMBLES

Wire Rope Thimbles are intended for use in making an eye termination in cable. Such assembly is for non-critical light duty use applications only.

| Part # | Size | A    | B    | C    | D    |
|--------|------|------|------|------|------|
| EQWRT2 | 1/8  | 1.93 | 1.06 | 1.31 | 0.68 |
| EQWRT3 | 3/16 | 1.93 | 1.06 | 1.31 | 0.68 |
| EQWRT4 | 1/4  | 1.96 | 1.06 | 1.31 | 0.68 |
| EQWRT5 | 5/16 | 2.12 | 1.25 | 1.50 | 0.81 |
| EQWRT6 | 3/8  | 2.37 | 1.46 | 1.62 | 0.93 |

We can special order heavy-duty and stainless steel thimbles.

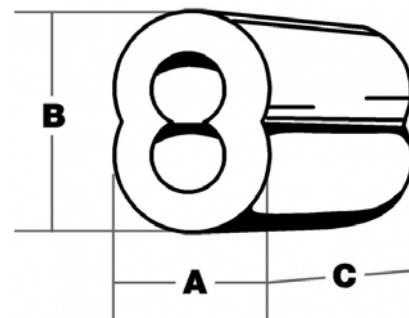


## WIRE ROPE SLEEVES

### ALUMINUM - OVAL

Wire Rope Sleeves are capable of supporting 90% of load strength of cable when properly applied.

| Part #    | Size | A    | B    | C    |
|-----------|------|------|------|------|
| EQOWRS01  | 1/16 | 0.17 | 0.25 | 0.38 |
| EQOWRS015 | 3/32 | 0.28 | 0.40 | 0.50 |
| EQOWRS02  | 1/8  | 0.34 | 0.50 | 0.63 |
| EQOWRS03  | 3/16 | 0.44 | 0.67 | 1.00 |
| EQOWRS04  | 1/4  | 0.54 | 0.82 | 1.13 |
| EQOWRS05  | 5/16 | 0.69 | 1.03 | 1.25 |

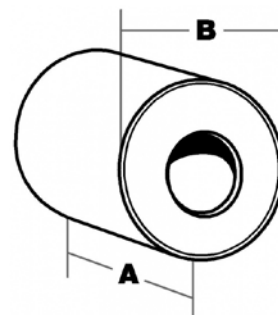


## WIRE ROPE STOPS

### ALUMINUM

Wire Rope Stops are capable of supporting 1/3 the load strength of cable when properly attached.

| Part # | Size | A    | B    |
|--------|------|------|------|
| EQACS2 | 1/8  | 0.34 | 0.31 |
| EQACS3 | 3/16 | 0.44 | 0.34 |
| EQACS4 | 1/4  | 0.69 | 0.69 |

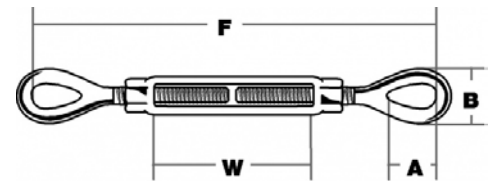


## TURNBUCKLES

Turnbuckles are drop forged and hot dip galvanized.

### EYE-EYE

| Part #  | Size Thread x Length (W) | A    | B    | F (Closed) |
|---------|--------------------------|------|------|------------|
| LCT0423 | 1/4 x 2-7/8              | .78  | .34  | 5.25       |
| LCT0432 | 1/4 x 4                  | .78  | .34  | 7.80       |
| LCT0536 | 5/16 x 4-1/2             | 0.94 | 0.44 | 9.06       |
| LCT0648 | 3/8 x 6                  | 1.12 | .53  | 11.47      |
| LCT0872 | 1/2 x 9                  | 1.44 | 0.72 | 16.08      |
| LCT1096 | 5/8 x 12                 | 1.75 | 0.88 | 20.68      |



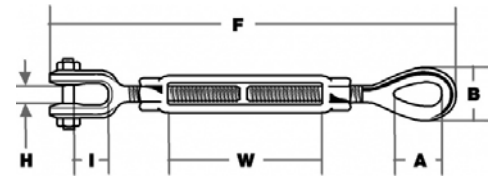
### HOOK-EYE

| Part #    | Size Thread x Length (W) | Length (Closed) |
|-----------|--------------------------|-----------------|
| LCT0423HE | 1/4 x 2-1/8              | 5.25            |



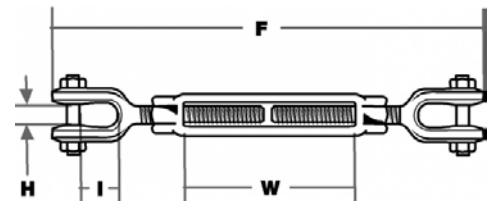
### JAW-EYE

| Part #    | Size Thread x Length (W) | A    | B    | F (Closed) | H    | I    |
|-----------|--------------------------|------|------|------------|------|------|
| LCT0536EJ | 5/16 x 4-1/2             | 0.94 | 0.44 | 8.71       | 0.50 | 0.72 |
| LCT0872EJ | 1/2 x 9                  | 1.44 | 0.72 | 15.29      | 0.65 | 1.06 |
| LCT1096EJ | 5/8 x 12                 | 1.75 | 0.88 | 19.74      | 0.79 | 1.31 |



### JAW-JAW

| Part #     | Size Thread x Length (W) | F (Closed) | H    | I    |
|------------|--------------------------|------------|------|------|
| LCT0536JJ  | 5/16 x 4-1/2             | 8.36       | 0.50 | 0.87 |
| LCT0648JJ  | 3/8 x 6                  | 10.14      | 0.54 | 0.87 |
| LCT0848JJ  | 1/2 x 6                  | 11.50      | 0.65 | 1.06 |
| LCT0872JJ  | 1/2 x 9                  | 14.50      | 0.65 | 1.06 |
| LCT1072JJ  | 5/8 x 9                  | 15.80      | 0.79 | 1.31 |
| LCT1296JJ  | 3/4 x 12                 | 23.10      | 0.94 | 1.50 |
| LCT16192JJ | 1 x 24                   | 34.72      | 1.34 | 2.06 |





# IDENTIFYING YOUR CHAIN

## IDENTIFYING YOUR CHAIN

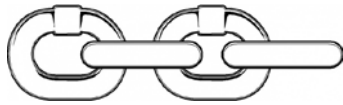
The first step in identifying Chains is to determine whether it is a WELDED chain or a WELDLESS chain.

### WELDED CHAINS

Welded chains have each link formed by welding.

#### HEAVY DUTY WELDED CHAINS

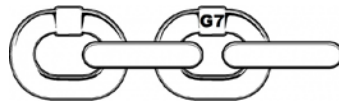
Heavy duty welded chains come in a number of grades and in sizes 3/16 and up.



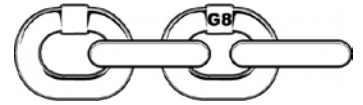
Grade 30 Proof Coil Chain is usually zinc plated giving it a silver color and if it is marked will have a G3 or similar marking stamped on the links. It is the lightest duty of the heavy duty welded chains.



Grade 43 High Test Chain is usually plain finish giving it a dark gray color. If it is marked it will have a G4 or something similar stamped on the links.



Grade 70 Transport Chain is usually yellow zinc plated giving it a gold color. It is stamped with a G7 or something similar on the links.



Grade 80 Alloy Chain is usually black. It is stamped with a G8 or something similar on the links.

#### LIGHT DUTY WELDED CHAINS



Straight Link Machine Chain has short links and typically comes zinc plated giving it a silver color.



Straight Link Coil Chain has long links and typically comes zinc plated giving it a silver color



Twist Link Machine Chain has short links with each link twisted 90 degrees. It typically comes zinc plated giving it a silver color.

### WELDLESS CHAINS

Weldless chains contain no welds and each link is twisted to form the chain.

Double Loop Chain is twisted in two loops then twisted together in the middle so each link has a "double loop".



Single Jack chain is twisted into two loops but is not twisted together.

# SINGLE JACK CHAIN, DOUBLE LOOP CHAIN, COIL CHAIN STRAIGHT LINK

## SINGLE JACK CHAIN

### ZINC PLATED

Single Jack Chain is a light-duty, weldless chain. It is suitable for many light duty tasks.

| Part # | Size | Wire Diameter | Length per 100 Links | WLL |
|--------|------|---------------|----------------------|-----|
| LCJC18 | #18  | 0.047         | 39"                  | 5   |
| LCJC16 | #16  | 0.062         | 50"                  | 10  |
| LCJC14 | #14  | 0.080         | -                    | 16  |
| LCJC12 | #12  | 0.105         | -                    | 29  |



## DOUBLE LOOP CHAIN

### ZINC PLATED

Double Loop Chain is a weldless chain. It is an all-purpose chain which is used for animal chains, swings, hanging light fixtures, and many other applications.

| Part # | Size | Wire Diameter | Inside Link Length | Approx. Links per Foot | WLL |
|--------|------|---------------|--------------------|------------------------|-----|
| LCDL5  | #5   | 0.062         | 0.920              | 13                     | 55  |
| LCDL4  | #4   | 0.072         | 1.000              | 12                     | 75  |
| LCDL3  | #3   | 0.080         | 1.140              | 10.5                   | 90  |
| LCDL1  | #1   | 0.105         | 1.710              | 7                      | 155 |
| LCDL10 | 1-0  | 0.118         | 1.780              | 6.7                    | 200 |
| LCDL20 | 2-0  | 0.135         | 1.820              | 6.6                    | 255 |



### STAINLESS STEEL

| Part #   | Size | Wire Diameter | Inside Link Length | Approx. Links per Foot | WLL |
|----------|------|---------------|--------------------|------------------------|-----|
| LCSSDL20 | 2-0  | 0.135         | 1.820              | 6.6                    | 255 |



## COIL CHAIN STRAIGHT LINK

### ZINC PLATED

Coil Chain Straight Link is easily identified by its extra long links.

| Part # | Size | Wire Diameter | Inside Length | Inside Width | WLL |
|--------|------|---------------|---------------|--------------|-----|
| LCLL10 | 1-0  | 0.177         | 1.250         | 0.320        | 415 |
| LCLL20 | 2-0  | 0.192         | 1.270         | 0.350        | 495 |



# MACHINE CHAIN STRAIGHT LINK, MACHINE CHAIN TWIST LINK, CHAIN-PROOF COIL GRADE 30

## MACHINE CHAIN STRAIGHT LINK

### ZINC PLATED

Machine Chain Straight Link is a short link welded chain. The short link makes it compact and flexible.

| Part #  | Size | Wire Diameter | Inside Length | Inside Width | WLL |
|---------|------|---------------|---------------|--------------|-----|
| LCSLM4  | #4   | 0.120         | 0.550         | 0.210        | 215 |
| LCSLM2  | #2   | 0.148         | 0.610         | 0.260        | 325 |
| LCSLM10 | 1-0  | 0.177         | 0.740         | 0.310        | 465 |
| LCSLM20 | 2-0  | 0.192         | 0.790         | 0.350        | 545 |



## MACHINE CHAIN TWIST LINK

### ZINC PLATED

Machine Chain Twist Link is identical to Straight Link except the twist in each link lets it lie flatter and makes it slightly more compact and flexible.

| Part #  | Size | Wire Diameter | Inside Length | Inside Width | WLL |
|---------|------|---------------|---------------|--------------|-----|
| LCTLM20 | 2-0  | 0.192         | 1.240         | 0.290        | 495 |
| LCTLM50 | 5-0  | 0.250         | 1.000         | 0.380        | 925 |



## CHAIN-PROOF COIL GRADE 30

### ZINC PLATED

Not for overhead lifting! Proof Coil Chain is a general purpose chain. It is made of low carbon steel and is frequently used for tow chains and logging chains.

| Part #  | Size | Wire Dia. | Inside Width | Inside Length | Box Quantity | Drum Quantity |
|---------|------|-----------|--------------|---------------|--------------|---------------|
| LCPCZ35 | 3/16 | 0.197     | 0.312        | 1.000         | 150          | 1500          |
| LCPCZ3P | 3/16 | 0.187     | 0.375        | 0.950         | 250          | 1500          |
| LCPCZ3  | 3/16 | 0.217     | 0.375        | 0.950         | 150          | 1500          |
| LCPCZ4  | 1/4  | 0.280     | 0.450        | 1.200         | 141          | 800           |
| LCPCZ5  | 5/16 | 0.320     | 0.590        | 1.270         | 92           | 550           |
| LCPCZ6  | 3/8  | 0.510     | 0.620        | 1.360         | 63           | 400           |



### GALVANIZED

| Part #   | Size | WLL       |
|----------|------|-----------|
| LCPCG2LL | 1/8* | 400 LBS.  |
| LCPCG3   | 3/16 | 800 LBS.  |
| LCPCG4   | 1/4  | 1250 LBS. |



\*Long link

# CHAIN-304 STAINLESS STEEL, CHAIN-HIGH TEST GRADE 43, CHAIN-TRANSPORT GRADE 70, CHAIN-ALLOY GRADE 80

## CHAIN-304 STAINLESS STEEL

| Part #  | Size | Wire Dia. | Inside Width | Inside Length | Box Quantity | Drum Quantity |
|---------|------|-----------|--------------|---------------|--------------|---------------|
| LCPCSS2 | 1/8  | 0.125     | 0.25         | 0.94          | 100          | -             |
| LCPCSS3 | 3/16 | 0.187     | 0.31         | 1             | 100          | 1500          |
| LCPCSS4 | 1/4  | 0.250     | 0.31         | 1.24          | 100          | 800           |

Need 316 stainless steel chain? Call for availability.



## CHAIN-HIGH TEST GRADE 43

### SELF COLORED

Not for overhead lifting! High Test Chain is a higher strength chain made from a higher carbon steel. It's working load limits are approximately twice that of proof coil.

| Part # | Size | Wire Dia. | Inside Width | Inside Length | Box Quantity | Drum Quantity |
|--------|------|-----------|--------------|---------------|--------------|---------------|
| LCHTP5 | 5/16 | 0.340     | 0.470        | 1.270         | 92           | 550           |
| LCHTP6 | 3/8  | 0.390     | 1.570        | 1.360         | 63           | 400           |



## CHAIN-TRANSPORT GRADE 70

### YELLOW CHROMATE FINISH

Not for overhead lifting! Transport Chain is used primarily as a tie down for over-the-road equipment and is DOT approved for this. The yellow chromate plating makes it easily recognizable. It is made from heat treated carbon steel and has about 25% more strength than high test chains.

| Part # | Size | Wire Dia. | Inside Width | Inside Length | Box Quantity | Drum Quantity |
|--------|------|-----------|--------------|---------------|--------------|---------------|
| LC704  | 1/4  | 0.280     | 0.460        | 1.200         | 141          | 800           |
| LC705  | 5/16 | 0.340     | 0.480        | 1.290         | 92           | 550           |
| LC706  | 3/8  | 0.390     | 0.570        | 1.360         | 63           | 400           |
| LC708  | 1/2  | 0.510     | 0.750        | 1.700         | 40           | 200           |



## CHAIN-ALLOY GRADE 80

### SELF COLORED OR BLACK LACQUER FINISH

Alloy Chain is designed and approved for overhead lifting. Its alloy, heat-treated steel makes it ideal for making lifting slings and heavy duty tow chains.

| Part # | Size | Wire Dia. | Inside Width | Inside Length | Box Quantity | Drum Quantity |
|--------|------|-----------|--------------|---------------|--------------|---------------|
| LC804  | 1/4  | 0.280     | 0.410        | 0.860         | 141          | 800           |
| LC805  | 5/16 | 0.320     | 0.460        | 0.940         | 92           | 550           |
| LC806  | 3/8  | 0.390     | 0.550        | 1.220         | 63           | 400           |
| LC808  | 1/2  | 0.510     | 0.750        | 1.570         | 40           | 200           |

Need Grade 100 or Grade 120 chain? Call us for availability.



# TRAILER SAFETY CHAIN ASSEMBLIES GRADE 70, TIE DOWN CHAIN GRADE 70, CHAIN BINDERS

## TRAILER SAFETY CHAIN ASSEMBLIES GRADE 70

### ZINC PLATED

Trailer Safety Chain comes ready to install on the trailer.

| Part #    | Size     | # of Safety Slip Hooks | Trailer Classification | Gross Trailer Weight |
|-----------|----------|------------------------|------------------------|----------------------|
| LCSC70635 | 3/8 x 35 | 1                      | 5                      | 26400                |
| LCSC70684 | 3/8 x 84 | 2                      | 5                      | 26400                |



## TIE DOWN CHAIN GRADE 70

| Part #   | Size       | WLL  |
|----------|------------|------|
| LCTDC516 | 5/16 x 16' | 4700 |
| LCTDC520 | 5/16 x 20' | 4700 |
| LCTDC616 | 3/8 x 16'  | 6600 |
| LCTDC620 | 3/8 x 20'  | 6600 |



## CHAIN BINDERS

### LEVER TYPE

| Part # | Chain Size                  | Type  | WLL  |
|--------|-----------------------------|-------|------|
| EQLB04 | 1/4 GRADE 30 OR 43          | Lever | 2600 |
| EQLB06 | 5/16 GRADE 70, 3/8 GRADE 43 | Lever | 5400 |
| EQLB08 | 3/8 GRADE 70, 1/2 GRADE 43  | Lever | 9200 |



### RATCHET TYPE

| Part #    | Chain Size                  | Type    | WLL  |
|-----------|-----------------------------|---------|------|
| EQLBRGT05 | 1/4 GRADE 70, 5/16 GRADE 70 | Ratchet | 4700 |
| EQLBR06   | 5/16 GRADE 70, 3/8 GRADE 70 | Ratchet | 6600 |

Don't see the size you're looking for? Call us for availability!

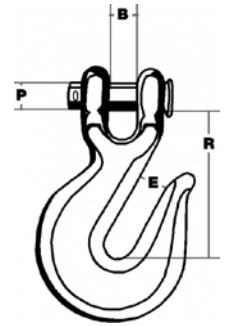


## CHAIN HOOKS

### CLEVIS GRAB • HIGH TEST

Not for overhead lifting! High Test Clevis Grab Hooks are used with proof coil and high test chain. Typically they have a silver zinc finish.

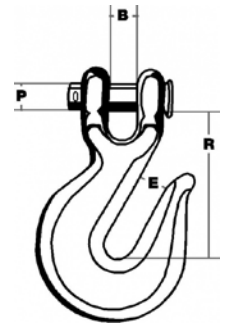
| Part # | Size | B    | E    | P    | R    | WLL  |
|--------|------|------|------|------|------|------|
| LCHGP4 | 1/4  | 0.43 | 0.34 | 0.37 | 1.81 | 2600 |
| LCHGP5 | 5/16 | 0.50 | 0.43 | 0.37 | 2.15 | 3900 |
| LCHGP6 | 3/8  | 0.59 | 0.50 | 0.43 | 2.46 | 5400 |
| LCHGP8 | 1/2  | 0.75 | 0.65 | 0.62 | 3.21 | 9200 |



### CLEVIS GRAB • GRADE 70

Not for overhead lifting! Grade 70 Clevis Grab Hooks are marked with a G70 and are for use with tie down chains. They have a yellow chromate finish.

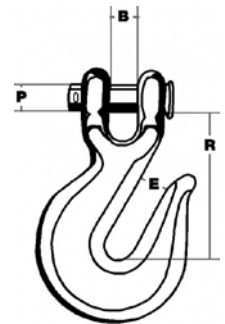
| Part #  | Size | B    | E    | P    | R    | WLL   |
|---------|------|------|------|------|------|-------|
| LCHG704 | 1/4  | 0.43 | 0.34 | 0.37 | 1.81 | 3150  |
| LCHG705 | 5/16 | 0.50 | 0.43 | 0.37 | 2.15 | 4700  |
| LCHG706 | 3/8  | 0.59 | 0.50 | 0.43 | 2.46 | 6600  |
| LCHG708 | 1/2  | 0.75 | 0.65 | 0.62 | 3.21 | 11300 |



### CLEVIS GRAB • ALLOY

Not for overhead lifting! Alloy Clevis Grab Hooks have working load limits equivalent to Alloy Grade 80 Chain but they are not approved for overhead lifting. They have a yellow chromate finish.

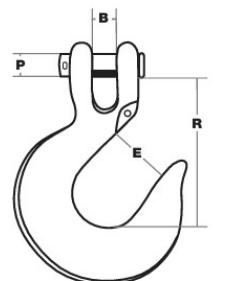
| Part #  | Size | B    | E    | P    | R    | WLL   |
|---------|------|------|------|------|------|-------|
| LCHG804 | 1/4  | 0.43 | 0.34 | 0.37 | 1.81 | 3500  |
| LCHG805 | 5/16 | 0.50 | 0.43 | 0.37 | 2.15 | 4500  |
| LCHG806 | 3/8  | 0.59 | 0.50 | 0.43 | 2.46 | 7100  |
| LCHG808 | 1/2  | 0.75 | 0.65 | 0.62 | 3.21 | 12000 |



### CLEVIS SLIP • HIGH TEST

Not for overhead lifting! High Test Clevis Slip Hooks are used with proof coil and high test chain. Typically they have a silver zinc finish.

| Part # | Size | B    | E    | P    | R     | WLL  |
|--------|------|------|------|------|-------|------|
| LCHSP4 | 1/4  | 0.40 | 0.93 | 0.37 | 2.56  | 2600 |
| LCHSP5 | 5/16 | 0.43 | 1.06 | 0.43 | 2.71  | 3900 |
| LCHSP6 | 3/8  | 0.47 | 1.31 | 0.46 | 3.25  | 5400 |
| LCHSP8 | 1/2  | 0.75 | 1.68 | 0.62 | 4.000 | 9200 |



## CHAIN HOOKS, WELD-ON GRAB HOOKS GRADE 70, RAPID LINKS (QUICK LINKS)

### CLEVIS SAFETY SLIP • GRADE 70

Not for overhead lifting! Grade 70 Clevis Safety Slip Hooks are marked with a G70 and are for use with tie down chains. They have a yellow chromate finish. The latch is stainless steel.

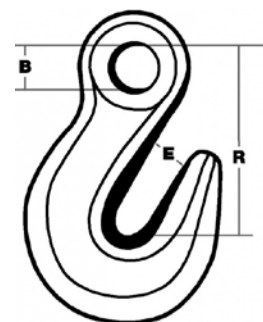
| Part #   | Size | B    | E    | P    | R     | WLL  |
|----------|------|------|------|------|-------|------|
| LCHSS704 | 1/4  | 0.40 | 0.93 | 0.37 | 2.56  | 2750 |
| LCHSS705 | 5/16 | 0.43 | 1.06 | 0.43 | 2.71  | 4300 |
| LCHSS706 | 3/8  | 0.47 | 1.31 | 0.46 | 3.25  | 5250 |
| LCHSS708 | 1/2  | 0.75 | 1.68 | 0.62 | 4.000 | 9200 |



### EYE GRAB • HIGH TEST

Not for overhead lifting! High Test Eye Grab Hooks are for use with proof coil and high test chains. They typically come self colored.

| Part # | Size | B    | E    | R    | WLL  |
|--------|------|------|------|------|------|
| LCHGE4 | 1/4  | 0.50 | 0.34 | 1.96 | 2600 |
| LCHGE5 | 5/16 | 0.56 | 0.43 | 2.25 | 3900 |
| LCHGE6 | 3/8  | 0.67 | 0.50 | 2.56 | 5400 |



### WELD-ON GRAB HOOKS GRADE 70

| Part #  | Size | WLL   |
|---------|------|-------|
| LCHWG05 | 5/16 | 4700  |
| LCHWG06 | 3/8  | 6600  |
| LCHWG08 | 1/2  | 11300 |



### RAPID LINKS (QUICK LINKS)

#### ZINC PLATED

| Part # | Wire Size | Overall Length (A) | Opening (D) | WLL  |
|--------|-----------|--------------------|-------------|------|
| LCRL2  | 1/8       | 1 3/8              | 0.18        | 130  |
| LCRL3  | 3/16      | 1 7/8              | 0.25        | 400  |
| LCRL4  | 1/4       | 2 1/8              | 0.31        | 600  |
| LCRL5  | 5/16      | 3                  | 0.38        | 800  |
| LCRL6  | 3/8       | 3 1/8              | 0.44        | 1200 |
| LCRL8  | 1/2       | 4 1/8              | 0.61        | 4500 |
| LCRL10 | 5/8       | 5 1/2              | 0.75        | 6380 |





# RAPID LINKS (QUICK LINKS), DOUBLE CLEVIS LINKS, COLD SHUTS, REPAIR LINKS

## 304 STAINLESS STEEL

| Part #  | Size | Overall Length (A) | Opening (D) | WLL  |
|---------|------|--------------------|-------------|------|
| LCSSRL2 | 1/8  | 1 1/2              | 1/4         | 220  |
| LCSSRL3 | 3/16 | 2                  | 1/4         | 660  |
| LCSSRL4 | 1/4  | 2 5/16             | 5/16        | 880  |
| LCSSRL5 | 5/16 | 2 31/32            | 3/8         | 1900 |

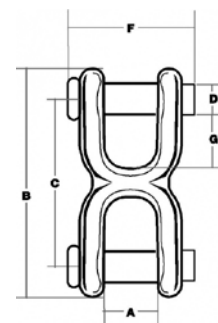


## DOUBLE CLEVIS LINKS

### DROP FORGED LOW CARBON STEEL - ZINC PLATED

Double Clevis Links have a drop forged carbon steel body and alloy pins. They are designed for use with high test or transport chain.

| Part # | Size     | A    | B    | C    | D    | F    |
|--------|----------|------|------|------|------|------|
| LCDCL4 | 1/4-5/16 | 0.44 | 2.50 | 1.56 | 0.38 | 1.40 |
| LCDCL6 | 3/8      | 0.53 | 2.81 | 1.85 | 0.44 | 1.65 |
| LCDCL8 | 7/16-1/2 | 0.65 | 3.62 | 2.30 | 0.56 | 2.08 |



## COLD SHUTS

### ZINC PLATED

Cold Shuts are designed for use with proof coil chain. Use one size larger cold shut than chain size and weld shut after closing.

| Part # | Size | Inside Width | Inside Length |
|--------|------|--------------|---------------|
| LCCS3  | 3/16 | 0.34         | 0.94          |
| LCCS4  | 1/4  | 0.38         | 1.19          |
| LCCS5  | 5/16 | 0.44         | 1.38          |
| LCCS6  | 3/8  | 0.63         | 1.50          |
| LCCS8  | 1/2  | 0.75         | 1.88          |
| LCCS10 | 5/8  | 0.81         | 2.00          |
| LCCS12 | 3/4  | 1.00         | 2.50          |



## REPAIR LINKS

### ZINC PLATED

Repair Links are designed for use with proof coil chain. Use one size larger repair link than chain size and weld shut after closing.

| Part #   | Size | Inside Width | Inside Length |
|----------|------|--------------|---------------|
| LCREL3   | 3/16 | 0.50         | 1 1/2         |
| LCREL416 | 1/4  | 0.63         | 2             |
| LCREL5   | 5/16 | 0.75         | 2             |
| LCREL6   | 3/8  | 0.75         | 2             |
| LCREL8   | 1/2  | 1.00         | 2 1/2         |





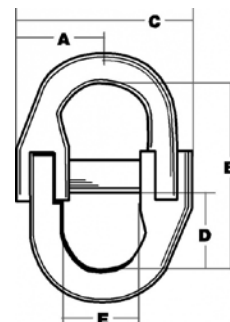
# ALLOY CONNECTING LINKS, SCREW PIN ANCHOR SHACKLES (CLEVISES), ROUND PIN ANCHOR SHACKLES

## ALLOY CONNECTING LINKS

### ZINC PLATED

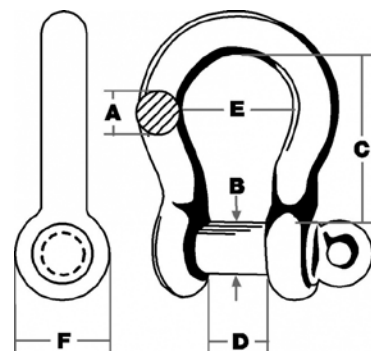
Alloy Connecting Links are designed to use with Grade 80 chain. They can be used for overhead lifting.

| Part # | Size | A    | B    | C    | D    | E    |
|--------|------|------|------|------|------|------|
| LCACL4 | 1/4  | 0.33 | 1.88 | 1.85 | 0.78 | 0.63 |
| LCACL5 | 5/16 | 0.36 | 2.18 | 1.97 | 0.91 | 0.66 |
| LCACL6 | 3/8  | 0.45 | 2.53 | 2.50 | 1.03 | 0.85 |
| LCACL8 | 1/2  | 0.59 | 3.36 | 3.22 | 1.44 | 1.09 |



## SCREW PIN ANCHOR SHACKLES (CLEVISES)

### HOT DIP GALVANIZED



| Part # | Size (A) | B    | C    | D    | E    |
|--------|----------|------|------|------|------|
| LCAS03 | 3/16     | 0.25 | 0.75 | 0.38 | 0.59 |
| LCAS04 | 1/4      | 0.31 | 1.13 | 0.47 | 0.78 |
| LCAS05 | 5/16     | 0.38 | 1.25 | 0.53 | 0.84 |
| LCAS06 | 3/8      | 0.44 | 1.50 | 0.66 | 1.03 |
| LCAS07 | 7/16     | 0.50 | 1.75 | 0.72 | 1.16 |
| LCAS08 | 1/2      | 0.63 | 2.00 | 0.81 | 1.31 |
| LCAS10 | 5/8      | 0.75 | 2.50 | 1.06 | 1.69 |
| LCAS12 | 3/4      | 0.88 | 3.00 | 1.25 | 2.00 |
| LCAS14 | 7/8      | 1.00 | 3.25 | 1.44 | 2.25 |

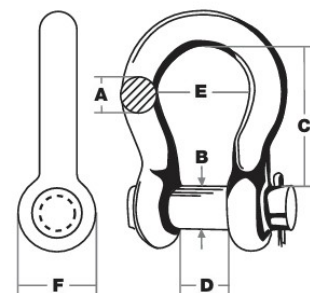
| Part # | Size (A) | B    | C    | D    | E    |
|--------|----------|------|------|------|------|
| LCAS16 | 1        | 1.13 | 3.75 | 1.69 | 2.50 |
| LCAS18 | 1-1/8    | 1.25 | 4.25 | 1.81 | 2.94 |
| LCAS20 | 1-1/4    | 1.38 | 4.50 | 2.00 | 3.25 |
| LCAS22 | 1-3/8    | 1.50 | 5.25 | 2.25 | 3.50 |
| LCAS24 | 1-1/2    | 1.63 | 5.75 | 2.38 | 3.88 |
| LCAS28 | 1-3/4    | 2.00 | 7.00 | 2.88 | 4.75 |
| LCAS32 | 2        | 2.25 | 7.75 | 3.25 | 5.75 |

\*WLL is based on a design factor of 5:1. Need Stainless Steel Shackles? Call for Availability

## ROUND PIN ANCHOR SHACKLES

### BG RATED

| Part #   | Size (A) | B    | C    | D    | E    | F    |
|----------|----------|------|------|------|------|------|
| LCASRP10 | 5/8      | 0.75 | 2.50 | 1.06 | 1.69 | 1.56 |
| LCASRP12 | 3/4      | 0.88 | 3.00 | 1.25 | 2.00 | 1.88 |



# DOUBLE END SNAPS, SPRING LINKS, WELD ON D RING W/ BRACKET

## DOUBLE END SNAPS

DIE CAST ZINC • NICKEL PLATED

| Part #   | Overall Length |
|----------|----------------|
| LCDES528 | 3-1/2          |
| LCDES532 | 4              |



## SPRING LINKS

ZINC PLATED

| Part # | Wire Size | Overall Length | WLL |
|--------|-----------|----------------|-----|
| LCSL3  | 3/16      | 2 1/8          | 70  |
| LCSL4  | 1/4       | 2 1/2          | 140 |
| LCSL5  | 5/16      | 3 1/8          | 280 |
| LCSL6  | 3/8       | 3 1/2          | 400 |
| LCSL7  | 7/16      | 4 3/4          | 500 |



304 STAINLESS STEEL

| Part #  | Wire Size | Overall Length | WLL |
|---------|-----------|----------------|-----|
| LCSSSL4 | 1/4       | 2 1/2          | 280 |
| LCSSSL5 | 5/16      | 3 1/8          | -   |
| LCSSSL6 | 3/8       | 3 1/2          | 550 |



## WELD ON D RING W/ BRACKET

| Part #   | Ring Diameter | Inside Width | Inside Height | WLL   |
|----------|---------------|--------------|---------------|-------|
| EQBPB38W | 1/2           | 2.375        | 2.50          | 4080  |
| EQBPB40  | 5/8           | 3.00         | 3.00          | 6130  |
| EQBPB46  | 3/4           | 3.00         | 3.00          | 9120  |
| EQBPB48  | 1             | 3.00         | 3.00          | 15586 |



# S-HOOKS, LOCKING HITCH PINS, HITCH BALLS

## S-HOOKS

### ZINC PLATED

| Part #  | Wire Size | Overall Length | Overall Width |
|---------|-----------|----------------|---------------|
| LCHS3   | 3/16      | 1 3/4          | 7/8           |
| LCHS3A  | 3/16      | 17/8           | -             |
| LCHS416 | 1/4       | 2 1/4          | 1 1/4         |
| LCHS524 | 5/16      | 3              | 1 5/8         |
| LCHS6   | 3/8       | 3 3/4          | 2 1/8         |



## LOCKING HITCH PINS

| Part #      | Description | Pin Diameter | Receiver Tube Size |
|-------------|-------------|--------------|--------------------|
| EQBPBLHP300 | BONE STYLE  | 5/8          | 2"                 |

For bent pins, see page 165.



## HITCH BALLS

### ZINC PLATED

| Part #         | Ball Diameter | Shank Diameter | Shank Length | MGTW  | Discount Quantity |
|----------------|---------------|----------------|--------------|-------|-------------------|
| EQHB17812      | 1-7/8         | 3/4            | 1-3/4        | 2000  | 10                |
| EQHB2          | 2             | 1              | 2-1/8        | 6000  | 10                |
| EQHB212        | 2             | 3/4            | 1-3/4        | 3500  | 10                |
| EQHB216        | 2*            | 1              | 2-3/4        | 10000 | 10                |
| EQHB251616     | 2-5/16        | 1              | 2-1/8        | 6000  | 10                |
| EQHB251620     | 2-5/16        | 1-1/4          | 2-1/2        | 10000 | 10                |
| EQHB251620234C | 2-5/16*       | 1-1/4          | 2-3/4        | 10000 | 10                |

\*Chrome Finish. Don't see the size you need? Call us for availability!



## BALL MOUNTS



| Part #      | Description                                       | Shank Size | Hole Size | Drop | MGTW       |
|-------------|---------------------------------------------------|------------|-----------|------|------------|
| EQBP1803005 | HEAVY DUTY WELDED CONSTRUCTION                    | 2          | 1         | 2"   | 7500 LBS.  |
| EQBP1803051 | HEAVY DUTY FORGED CONSTRUCTION                    | 2          | 1-1/4     | 2"   | 20000 LBS. |
| EQBP1803307 | HEAVY DUTY WELDED CONSTRUCTION KIT W/2" BALL      | 2          | -         | 2"   | 6000 LBS.  |
| EQBP1803308 | HEAVY DUTY WELDED CONSTRUCTION KIT W/2-5/16" BALL | 2          | -         | 2"   | 7500 LBS.  |
| EQBP1803405 | HEAVY DUTY WELDED CONSTRUCTION                    | 2-1/2      | 1-1/4     | 3"   | 15000 LBS. |

## TRAILER JACKS

### PIPE MOUNT

| Part #        | Description                        | Capacity  | Travel | Wind |
|---------------|------------------------------------|-----------|--------|------|
| EQTJP2001B    | Trailer Jack Swivel-Pipe Mount     | 3000 LBS. | 10"    | Top  |
| EQTJP2001SB   | Trailer Jack Swivel-Pipe Mount     | 3000 LBS. | 10"    | Side |
| EQTJP2002SB   | Trailer Jack Swivel-Pipe Mount     | 3000 LBS. | 15"    | Side |
| EQTJP5001B    | Trailer Jack Swivel-Pipe Mount     | 5000 LBS. | 10"    | Top  |
| EQTJP5002B    | Trailer Jack Swivel-Pipe Mount     | 5000 LBS. | 15"    | Top  |
| EQTJP5002SB   | Trailer Jack Swivel-Pipe Mount     | 5000 LBS. | 15"    | Side |
| EQTJDP5000FLB | Square Tube Pipe Mount             | 5000 LBS. | 15"    | Top  |
| EQTJDP7000SB  | Square Tube Pipe Mount w/ Drop Leg | 8000 LBS. | 15"    | Side |

Don't see the size you need? Call for availability.



### SQUARE TUBE WELD ON

| Part #          | Description                                              | Capacity   | Travel | Wind |
|-----------------|----------------------------------------------------------|------------|--------|------|
| EQTJD7000S      | Weld On Square Tube Pipe Mount w/ Drop Leg               | 8000 LBS.  | 15"    | Side |
| EQTJD12020SPF2* | Weld On Square Tube Trailer Jack Spring Return Drop Foot | 12000 LBS. | 12.5"  | Side |

\*Hardware and clip included.



# BALL BUNGEE, RUBBER STRAPS (TARP STRAPS), RATCHET TIE-DOWNS

## BALL BUNGEE

| Part # | Length              | Strech to | Case Quantity |
|--------|---------------------|-----------|---------------|
| EQBB09 | 9" (including ball) | 12.5"     | 200           |



## RUBBER STRAPS (TARP STRAPS)

| Part #  | Length | Case Quantity |
|---------|--------|---------------|
| EQBRS10 | 10"    | 10            |
| EQBRS15 | 15"    | 50            |
| EQBRS21 | 21"    | 50            |
| EQBRS31 | 31"    | 10            |

Would you like USA made or a different color? Call for availability.



## RATCHET TIE-DOWNS

| Part #    | Size     | Hooks      | Ratchet     | Capacity |
|-----------|----------|------------|-------------|----------|
| EQRTD227F | 2" x 27' | Flat Hooks | Long Handle | 10000    |
| EQRTD227J | 2" x 27' | J- Hooks   | Long Handle | 10000    |



[illegible]





A SOLVE IMG Brand

## MOUNTED BEARINGS

IPTC Bearings offers a complete line of mounted bearings that combine excellent quality, innovation, and affordability. We stock a broad range of IPTCI bearings.

**Note:** The following pages give the technical information for the IPTCI bearings. The IPTCI bearings we stock are listed on the pages following the technical information. The bearings we do not have in stock are available in 2-3 days.



# UC & UCW Bearing Inserts



**Standard duty with set screw lock.**

• Wide inner race

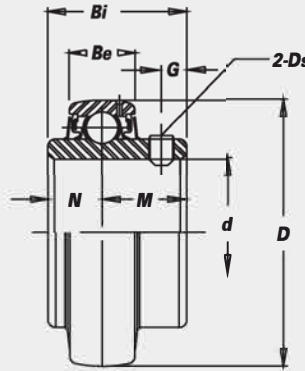
• B-type or L3-type seals



B-type Seal



L3-type Seal



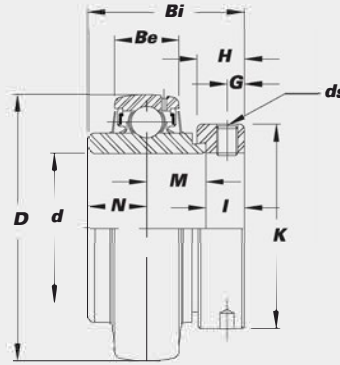
| Bearing No. | Bore Dia. of Bearing<br><i>d</i> |      | Dimensions (in.) (mm) |           |           |          |          |          |                 | Basic Load Rating (lbs.) | Basic Static Load Rating (lbs.) | Weight (lbs.) |
|-------------|----------------------------------|------|-----------------------|-----------|-----------|----------|----------|----------|-----------------|--------------------------|---------------------------------|---------------|
|             | (in.)                            | (mm) | <i>D</i>              | <i>Bi</i> | <i>Be</i> | <i>N</i> | <i>M</i> | <i>G</i> | <i>Ds</i> (in.) |                          |                                 |               |
| UCW 201     |                                  | 12   |                       |           |           |          |          |          |                 |                          |                                 | 0.26          |
| 201-8       | 1/2                              |      |                       |           |           |          |          |          |                 |                          |                                 | 0.26          |
| 202         |                                  | 15   | 1.5748                | 1.0236    | 0.5906    | 0.3937   | 0.6299   | 0.1575   | 10-32UNF        | 2,040                    | 1,020                           | 0.24          |
| 202-10      | 5/8                              |      | 40.0                  | 26.0      | 15.0      | 10.0     | 16.0     | 4.0      |                 |                          |                                 | 0.24          |
| 203         |                                  | 17   |                       |           |           |          |          |          |                 |                          |                                 | 0.22          |
| UC 201      |                                  | 12   |                       |           |           |          |          |          |                 |                          |                                 | 0.46          |
| 201-8       | 1/2                              |      |                       |           |           |          |          |          |                 |                          |                                 | 0.46          |
| 202         |                                  | 15   | 1.8504                | 1.2205    | 0.6299    | 0.5000   | 0.7205   | 0.1969   | 1/4-28UNF       | 2,740                    | 1,600                           | 0.42          |
| 202-10      | 5/8                              |      | 47.0                  | 31.0      | 16.0      | 12.7     | 18.3     | 5.0      |                 |                          |                                 | 0.42          |
| 203         |                                  | 17   |                       |           |           |          |          |          |                 |                          |                                 | 0.40          |
| 204-12      | 3/4                              |      |                       |           |           |          |          |          |                 |                          |                                 | 0.35          |
| 204         |                                  | 20   |                       |           |           |          |          |          |                 |                          |                                 | 0.35          |
| UC 205-14   | 7/8                              |      |                       |           |           |          |          |          |                 |                          |                                 | 0.51          |
| 205-15      | 15/16                            |      | 2.0472                | 1.3386    | 0.6693    | 0.5630   | 0.7756   | 0.2165   | 1/4-28UNF       | 3,010                    | 1,750                           | 0.46          |
| 205         |                                  | 25   | 52.0                  | 34.0      | 17.0      | 14.3     | 19.7     | 5.5      |                 |                          |                                 | 0.44          |
| 205-16      | 1                                |      |                       |           |           |          |          |          |                 |                          |                                 | 0.44          |
| UC 206-17   | 1 1/16                           |      |                       |           |           |          |          |          |                 |                          |                                 | 0.81          |
| 206-18      | 1 1/8                            |      |                       |           |           |          |          |          |                 |                          |                                 | 0.75          |
| 206         |                                  | 30   | 2.4409                | 1.5000    | 0.7480    | 0.6260   | 0.8740   | 0.2362   | 1/4-28UNF       | 4,200                    | 2,430                           | 0.71          |
| 206-19      | 1 3/16                           |      | 62.0                  | 38.1      | 19.0      | 15.9     | 22.2     | 6.0      |                 |                          |                                 | 0.71          |
| 206-20      | 1 1/4S                           |      |                       |           |           |          |          |          |                 |                          |                                 | 0.71          |
| UC 207-20   | 1 1/4                            |      |                       |           |           |          |          |          |                 |                          |                                 | 1.19          |
| 207-21      | 1 5/16                           |      |                       |           |           |          |          |          |                 |                          |                                 | 1.12          |
| 207-22      | 1 3/8                            |      | 2.8346                | 1.6890    | 0.7874    | 0.6890   | 1.0000   | 0.2559   | 5/16-24UNF      | 5,535                    | 3,340                           | 1.06          |
| 207         |                                  | 35   | 72.0                  | 42.9      | 20.0      | 17.5     | 25.4     | 6.5      |                 |                          |                                 | 1.06          |
| 207-23      | 1 7/16                           |      |                       |           |           |          |          |          |                 |                          |                                 | 0.99          |
| UC 208-24   | 1 1/2                            |      |                       |           |           |          |          |          |                 |                          |                                 | 1.50          |
| 208-25      | 1 5/8                            |      | 3.1496                | 1.9370    | 0.8268    | 0.7480   | 1.1890   | 0.3150   | 5/16-24UNF      | 6,375                    | 3,960                           | 1.43          |
| 208         |                                  | 40   | 80.0                  | 49.2      | 21.0      | 19.0     | 30.2     | 8.0      |                 |                          |                                 | 1.41          |
| UC 209-26   | 1 5/8                            |      |                       |           |           |          |          |          |                 |                          |                                 | 1.72          |
| 209-27      | 1 11/16                          |      | 3.3465                | 1.9370    | 0.8661    | 0.7480   | 1.1890   | 0.3150   | 5/16-24UNF      | 7,110                    | 4,460                           | 1.63          |
| 209-28      | 1 3/4                            |      | 85.0                  | 49.2      | 22.0      | 19.0     | 30.2     | 8.0      |                 |                          |                                 | 1.54          |
| 209         |                                  | 45   |                       |           |           |          |          |          |                 |                          |                                 | 1.50          |
| UC 210-30   | 1 7/8                            |      |                       |           |           |          |          |          |                 |                          |                                 | 1.92          |
| 210-31      | 1 15/16                          |      | 3.5433                | 2.0315    | 0.9449    | 0.7480   | 1.2835   | 0.3543   | 3/8-24UNF       | 7,400                    | 4,910                           | 1.81          |
| 210         |                                  | 50   | 90.0                  | 51.6      | 24.0      | 19.0     | 32.6     | 9.0      |                 |                          |                                 | 1.76          |
| 210-32      | 2S                               |      |                       |           |           |          |          |          |                 |                          |                                 | 1.66          |
| UC 211-32   | 2                                |      |                       |           |           |          |          |          |                 |                          |                                 | 2.78          |
| 211-34      | 2 1/8                            |      | 3.9370                | 2.1890    | 0.9843    | 0.8740   | 1.3150   | 0.3543   | 3/8-24UNF       | 9,490                    | 6,440                           | 2.54          |
| 211         |                                  | 55   | 100.0                 | 55.6      | 25.0      | 22.2     | 33.4     | 9.0      |                 |                          |                                 | 2.45          |
| 211-35      | 2 3/16                           |      |                       |           |           |          |          |          |                 |                          |                                 | 2.40          |
| UC 212-36   | 2 1/4                            |      |                       |           |           |          |          |          |                 |                          |                                 | 3.68          |
| 212         |                                  | 60   | 4.3307                | 2.5630    | 1.0630    | 1.0000   | 1.5630   | 0.4134   | 3/8-24UNF       | 11,500                   | 7,940                           | 3.40          |
| 212-38      | 2 3/8                            |      | 110.0                 | 65.1      | 27.0      | 25.4     | 39.7     | 10.5     |                 |                          |                                 | 3.34          |
| 212-39      | 2 7/16                           |      |                       |           |           |          |          |          |                 |                          |                                 | 3.20          |
| UC 213-40   | 2 1/2                            |      |                       |           |           |          |          |          |                 |                          |                                 | 4.28          |
| 213         |                                  | 65   | 4.7244                | 2.5630    | 1.1024    | 1.0000   | 1.5630   | 0.4724   | 1/2-20UNF       | 12,400                   | 8,760                           | 4.10          |
|             |                                  |      | 120.0                 | 65.1      | 28.0      | 25.4     | 39.7     | 12.0     |                 |                          |                                 |               |
| UC 214-43   | 2 11/16                          |      |                       |           |           |          |          |          |                 |                          |                                 | 4.60          |
| 214-44      | 2 3/4                            |      | 4.9210                | 2.9370    | 1.1811    | 1.1890   | 1.7480   | 0.4724   | 1/2-20UNF       | 13,530                   | 9,620                           | 4.54          |
| 214         |                                  | 70   | 125.0                 | 74.6      | 30.0      | 30.2     | 44.4     | 12.0     |                 |                          |                                 | 4.52          |
| UC 215-47   | 2 15/16                          |      |                       |           |           |          |          |          |                 |                          |                                 | 5.02          |
| 215         |                                  | 75   | 5.1181                | 3.0630    | 1.2598    | 1.3110   | 1.7520   | 0.4724   | 1/2-20UNF       | 14,620                   | 10,540                          | 4.87          |
| 215-48      | 3                                |      | 130.0                 | 77.8      | 32.0      | 33.3     | 44.5     | 12.0     |                 |                          |                                 | 4.67          |
| UC 216      |                                  | 80   | 5.5118                | 3.2520    | 1.2992    | 1.3110   | 1.9410   | 0.5512   | 1/2-20UNF       | 16,000                   | 11,700                          | 6.15          |
|             |                                  |      | 140                   | 82.6      | 33        | 33.3     | 49.3     | 14       |                 |                          |                                 |               |
| UC 218-56   | 3 1/2                            |      |                       |           |           |          |          |          |                 |                          |                                 | 9.83          |
| 218         |                                  | 90   | 6.2992                | 3.7795    | 1.4961    | 1.5630   | 2.2165   | 0.5906   | 1/2-20UNF       | 21,120                   | 15,700                          | 9.59          |
|             |                                  |      | 160.0                 | 96.0      | 38.0      | 39.7     | 56.3     | 15.0     |                 |                          |                                 |               |

# NA & NAW Bearing Inserts



## Standard duty with eccentric locking collar.

- Wide inner race
- B-type or L3-type seals



| Bearing No. | Bore Dia. of Bearing |    | Dimensions (in.) (mm) |           |           |          |          |          |          |          |          |            | Basic Load Rating (lbs.) | Basic Static Load Rating (lbs.) | Weight (lbs.) |
|-------------|----------------------|----|-----------------------|-----------|-----------|----------|----------|----------|----------|----------|----------|------------|--------------------------|---------------------------------|---------------|
|             | <i>d</i>             |    | <i>D</i>              | <i>Bi</i> | <i>Be</i> | <i>N</i> | <i>M</i> | <i>I</i> | <i>H</i> | <i>G</i> | <i>K</i> | <i>ds</i>  |                          |                                 |               |
| NAW 201     |                      | 12 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 0.35          |
| 201-8       | 1/2                  | 15 | 1.5748                | 1.4685    | 0.5906    | 0.5472   | 0.5472   | 0.3740   | 1.1260   | 0.5315   | 0.1890   | 1/4-28UNF  | 2,040                    | 1,020                           | 0.35          |
| 202         |                      | 15 | 40.0                  | 37.3      | 15.0      | 13.9     | 13.9     | 9.5      | 28.6     | 13.5     | 4.8      |            |                          |                                 | 0.31          |
| 202-10      | 5/8                  | 17 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 0.31          |
| 203         |                      | 17 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 0.29          |
| NA 201      |                      | 12 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 0.64          |
| 201-8       | 1/2                  | 15 | 1.8504                | 1.7126    | 0.6299    | 0.6693   | 0.6693   | 0.3740   | 1.3110   | 0.5315   | 0.1890   | 1/4-28UNF  | 2,740                    | 1,600                           | 0.62          |
| 202         |                      | 15 | 47.0                  | 43.5      | 16.0      | 17.0     | 17.0     | 9.5      | 33.3     | 13.5     | 4.8      |            |                          |                                 | 0.60          |
| 202-10      | 5/8                  | 17 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 0.57          |
| 203         |                      | 17 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 0.55          |
| 204-12      | 3/4                  | 20 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 0.51          |
| 204         |                      | 20 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 0.49          |
| NA 205-14   | 7/8                  | 25 | 2.0472                | 1.7441    | 0.6693    | 0.6850   | 0.6850   | 0.3740   | 1.5000   | 0.5315   | 0.1890   | 1/4-28UNF  | 3,010                    | 1,750                           | 0.64          |
| 205-15      | 15/16                | 25 | 52.0                  | 44.3      | 17.0      | 17.4     | 17.4     | 9.5      | 38.1     | 13.5     | 4.8      |            |                          |                                 | 0.60          |
| 205         |                      | 25 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 0.55          |
| 205-16      | 1                    | 25 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 0.55          |
| NA 206-17   | 1 1/16               | 30 | 2.4409                | 1.9016    | 0.7480    | 0.7165   | 0.7165   | 0.4685   | 1.7520   | 0.6260   | 0.2362   | 5/16-24UNF | 4,200                    | 2,430                           | 0.99          |
| 206-18      | 1 1/8                | 30 | 62.0                  | 48.3      | 19.0      | 18.2     | 18.2     | 11.9     | 44.5     | 15.9     | 6.0      |            |                          |                                 | 0.95          |
| 206         |                      | 30 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 0.90          |
| 206-19      | 1 1/16               | 30 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 0.90          |
| 206-20      | 1 1/4S               | 30 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 0.84          |
| NA 207-20   | 1 1/4                | 35 | 2.8346                | 2.0118    | 0.7874    | 0.7402   | 0.7402   | 0.5315   | 2.1890   | 0.6890   | 0.2677   | 5/16-24UNF | 5,535                    | 3,340                           | 1.50          |
| 207-21      | 1 1/8                | 35 | 72.0                  | 51.1      | 20.0      | 18.8     | 18.8     | 13.5     | 55.6     | 17.5     | 6.8      |            |                          |                                 | 1.43          |
| 207-22      | 1 3/8                | 35 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 1.34          |
| 207         |                      | 35 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 1.34          |
| 207-23      | 1 7/16               | 35 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 1.28          |
| NA 208-24   | 1 1/2                | 40 | 3.1496                | 2.2165    | 0.8268    | 0.8425   | 0.8425   | 0.5315   | 2.3740   | 0.7205   | 0.2677   | 5/16-24UNF | 6,375                    | 3,960                           | 1.83          |
| 208-25      | 1 5/8                | 40 | 80.0                  | 56.3      | 21.0      | 21.4     | 21.4     | 13.5     | 60.3     | 18.3     | 6.8      |            |                          |                                 | 1.77          |
| 208         |                      | 40 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 1.72          |
| NA 209-26   | 1 5/8                | 45 | 3.3465                | 2.2165    | 0.8661    | 0.8425   | 0.8425   | 0.5315   | 2.5000   | 0.7205   | 0.2677   | 5/16-24UNF | 7,110                    | 4,460                           | 2.22          |
| 209-27      | 1 11/16              | 45 | 85.0                  | 56.3      | 22.0      | 21.4     | 21.4     | 13.5     | 63.5     | 18.3     | 6.8      |            |                          |                                 | 2.01          |
| 209-28      | 1 3/4                | 45 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 1.92          |
| 209         |                      | 45 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 1.87          |
| NA 210-30   | 1 7/8                | 50 | 3.5433                | 2.4685    | 0.9449    | 0.9685   | 0.9685   | 0.5315   | 2.7520   | 0.7205   | 0.2677   | 5/16-24UNF | 7,400                    | 4,910                           | 2.38          |
| 210-31      | 1 15/16              | 50 | 90.0                  | 62.7      | 24.0      | 24.6     | 24.6     | 13.5     | 69.9     | 18.3     | 6.8      |            |                          |                                 | 2.29          |
| 210         |                      | 50 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 2.23          |
| 210-32      | 2S                   | 50 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 2.17          |
| NA 211-32   | 2                    | 55 | 3.9370                | 2.8110    | 0.9843    | 1.0906   | 1.0906   | 0.6299   | 3.0000   | 0.8189   | 0.3150   | 3/8-24UNF  | 9,490                    | 6,440                           | 3.48          |
| 211-34      | 2 1/8                | 55 | 100.0                 | 71.4      | 25.0      | 27.7     | 27.7     | 16.0     | 76.2     | 20.8     | 8.0      |            |                          |                                 | 3.30          |
| 211         |                      | 55 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 3.06          |
| 211-35      | 2 3/16               | 55 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 3.00          |
| NA 212-36   | 2 1/4                | 60 | 4.3307                | 3.0630    | 1.0630    | 1.2165   | 1.2165   | 0.6299   | 3.3150   | 0.8740   | 0.3150   | 3/8-24UNF  | 11,500                   | 7,490                           | 4.48          |
| 212         |                      | 60 | 110.0                 | 77.8      | 27.0      | 30.9     | 30.9     | 16.0     | 84.2     | 22.2     | 8.0      |            |                          |                                 | 4.12          |
| 212-38      | 2 3/8                | 60 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 4.00          |
| 212-39      | 2 7/16               | 60 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 3.88          |
| NA 213-40   | 2 1/2                | 65 | 4.7244                | 3.3740    | 1.1024    | 1.3425   | 1.3425   | 0.6890   | 3.3858   | 0.9252   | 0.3346   | 3/8-24UNF  | 12,400                   | 8,760                           | 5.53          |
| 213         |                      | 65 | 120.0                 | 85.7      | 28.0      | 34.1     | 34.1     | 17.5     | 86.0     | 23.5     | 8.5      |            |                          |                                 | 5.31          |
| NA 214-44   | 2 3/4                | 70 | 4.9213                | 3.3740    | 1.1811    | 1.3425   | 1.3425   | 0.6890   | 3.5433   | 0.9252   | 0.3346   | 3/8-24UNF  | 13,530                   | 9,620                           | 5.80          |
| 214         |                      | 70 | 125.0                 | 85.7      | 30.0      | 34.1     | 34.1     | 17.5     | 90.0     | 23.5     | 8.5      |            |                          |                                 | 5.67          |
| NA 215-47   | 2 15/16              | 75 | 5.1181                | 3.6260    | 1.2598    | 1.4685   | 1.4685   | 0.6890   | 4.0157   | 0.9252   | 0.3346   | 3/8-24UNF  | 14,620                   | 10,540                          | 6.26          |
| 215         |                      | 75 | 130.0                 | 92.1      | 32.0      | 37.3     | 37.3     | 17.5     | 102.0    | 23.5     | 8.5      |            |                          |                                 | 6.04          |
| 215-48      | 3                    | 75 |                       |           |           |          |          |          |          |          |          |            |                          |                                 | 5.84          |

# UCX Bearing Inserts



## Medium duty with set screw lock.

• Wide inner race with greater load carrying capacity than UC insert

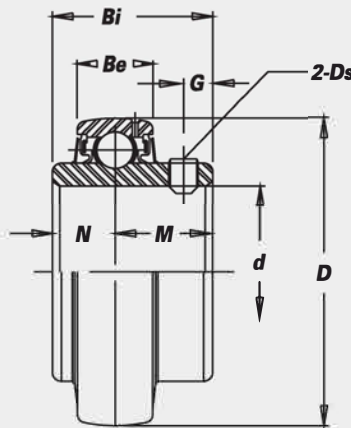
• B-type seals  
L3-type seals available in some sizes



B-type Seal



L3-type Seal



| Bearing No. | Bore Dia. of Bearing |     | Dimensions (in.) (mm) |        |        |        |        |        |            | Basic Load Rating (lbs.) | Basic Static Load Rating (lbs.) | Weight (lbs.) |
|-------------|----------------------|-----|-----------------------|--------|--------|--------|--------|--------|------------|--------------------------|---------------------------------|---------------|
|             | d                    |     | D                     | Bi     | Be     | N      | M      | G      | Ds         |                          |                                 |               |
| UC X05-14   | 7/8                  | 25  | 2.4409                | 1.5000 | 0.7480 | 0.6260 | 0.8740 | 0.2362 | 1/4-28UNF  | 4,200                    | 2,430                           | 0.93          |
| X05-15      | 15/16                |     | 62.0                  | 38.1   | 19.0   | 15.9   | 22.2   | 6.0    |            |                          |                                 | 0.89          |
| X05-16      | 1                    |     |                       |        |        |        |        |        |            |                          |                                 | 0.86          |
| UC X06-18   | 1 1/8                | 30  | 2.8346                | 1.6890 | 0.7874 | 0.6890 | 1.0000 | 0.2559 | 5/16-24UNF | 5,535                    | 3,340                           | 1.35          |
| X06-19      | 1 1/16               |     | 72.0                  | 42.9   | 20.0   | 17.5   | 25.4   | 6.5    |            |                          |                                 | 1.28          |
| X06-20      | 1 1/4                |     |                       |        |        |        |        |        |            |                          |                                 | 1.28          |
| UC X07-22   | 1 3/8                | 35  | 3.1496                | 1.9370 | 0.8268 | 0.7480 | 1.1890 | 0.3150 | 5/16-24UNF | 6,375                    | 3,960                           | 1.65          |
| X07-23      | 1 7/16               |     | 80.0                  | 49.2   | 21.0   | 19.0   | 30.2   | 8.0    |            |                          |                                 | 1.65          |
| UC X08-24   | 1 1/2                | 40  | 3.3465                | 1.9370 | 0.8661 | 0.7480 | 1.1890 | 0.3150 | 5/16-24UNF | 7,110                    | 4,460                           | 1.92          |
| X08         |                      |     | 85.0                  | 49.2   | 22.0   | 19.0   | 30.2   | 8.0    |            |                          |                                 | 1.83          |
| UC X09-26   | 1 5/8                | 45  | 3.5433                | 2.0315 | 0.9449 | 0.7480 | 1.2835 | 0.3543 | 3/8-24UNF  | 7,400                    | 4,910                           | 2.36          |
| X09-27      | 1 11/16              |     | 90.0                  | 51.6   | 24.0   | 19.0   | 32.6   | 9.0    |            |                          |                                 | 2.23          |
| X09-28      | 1 3/4                |     |                       |        |        |        |        |        |            |                          |                                 | 2.14          |
| X09         |                      |     |                       |        |        |        |        |        |            |                          |                                 | 2.09          |
| UC X10-30   | 1 7/8                | 50  | 3.9370                | 2.1890 | 0.9843 | 0.8740 | 1.3150 | 0.3543 | 3/8-24UNF  | 9,490                    | 6,440                           | 3.00          |
| X10-31      | 1 5/16               |     | 100.0                 | 55.6   | 25.0   | 22.2   | 33.4   | 9.0    |            |                          |                                 | 2.91          |
| X10-32      | 2                    |     |                       |        |        |        |        |        |            |                          |                                 | 2.84          |
| UC X11-34   | 2 1/8                | 55  | 4.3307                | 2.5630 | 1.0630 | 1.0000 | 1.5630 | 0.4134 | 3/8-24UNF  | 11,500                   | 7,940                           | 4.12          |
| X11         |                      |     | 110.0                 | 65.1   | 27.0   | 25.4   | 39.7   | 10.5   |            |                          |                                 | 3.97          |
| X11-35      | 2 3/16               |     |                       |        |        |        |        |        |            |                          |                                 | 3.92          |
| X11-36      | 2 1/4                |     |                       |        |        |        |        |        |            |                          |                                 | 3.75          |
| UC X12      | 2 1/2                | 60  | 4.7244                | 2.5630 | 1.1024 | 1.0000 | 1.5630 | 0.4724 | 1/2-20UNF  | 12,400                   | 8,760                           | 4.52          |
| X12-38      | 2 3/8                |     | 120.0                 | 65.1   | 28.0   | 25.4   | 39.7   | 12.0   |            |                          |                                 | 4.48          |
| X12-39      | 2 7/16               |     |                       |        |        |        |        |        |            |                          |                                 | 4.30          |
| UC X13-40   | 2 1/2                | 65  | 4.9213                | 2.9370 | 1.1811 | 1.1890 | 1.7480 | 0.4724 | 1/2-20UNF  | 13,530                   | 9,620                           | 4.75          |
| X13         |                      |     | 125.0                 | 74.6   | 30.0   | 30.2   | 44.4   | 12.0   |            |                          |                                 | 4.56          |
| UC X14-43   | 2 11/16              | 70  | 5.1181                | 3.0630 | 1.2598 | 1.3110 | 1.7520 | 0.4724 | 1/2-20UNF  | 14,620                   | 10,540                          | 6.06          |
| X14         |                      |     | 130.0                 | 77.8   | 32.0   | 33.3   | 44.5   | 12.0   |            |                          |                                 | 6.04          |
| UC X15-47   | 2 15/16              | 75  | 5.5118                | 3.2520 | 1.2992 | 1.3110 | 1.9410 | 0.5512 | 1/2-20UNF  | 16,000                   | 11,700                          | 7.77          |
| X15         |                      |     | 140.0                 | 82.6   | 33.0   | 33.3   | 49.3   | 14.0   |            |                          |                                 | 7.52          |
| X15-48      | 3                    |     |                       |        |        |        |        |        |            |                          |                                 | 7.32          |
| UC X17      | 3 1/16               | 85  | 6.2992                | 3.7795 | 1.4961 | 1.5630 | 2.2165 | 0.5906 | 1/2-20UNF  | 21,120                   | 15,800                          | 11.1          |
| X17-55      | 3 1/8                |     | 160.0                 | 96.0   | 38.0   | 39.7   | 56.3   | 15.0   |            |                          |                                 | 10.7          |
| X17-56      | 3 1/2                |     |                       |        |        |        |        |        |            |                          |                                 | 10.4          |
| UC X20      | 3 15/16              | 100 | 7.4803                | 4.6260 | 1.6929 | 1.9370 | 2.6890 | 0.7087 | 5/8-18UNF  | 29,300                   | 23,100                          | 18.9          |
| X20-63      |                      |     | 190.0                 | 117.5  | 43.0   | 49.2   | 68.3   | 18.0   |            |                          |                                 | 18.6          |
| X20-64      | 4                    |     |                       |        |        |        |        |        |            |                          |                                 | 18.4          |

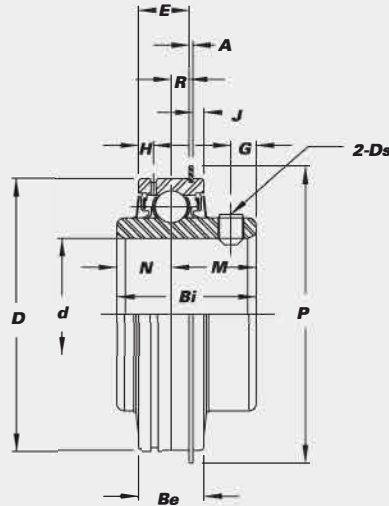
# ER Bearing Inserts



B-type Seal

## Standard duty with snap ring and set screw lock.

- Wide inner race
- Black Oxide Finish
- B-type seals



| Bearing No. | Bore Dia. of Bearing |    | Dimensions (in.) (mm) |        |        |        |        |        |        |        |        |        |        |        |            | Basic Load Rating (lbs.) | Basic Static Load Rating (lbs.) | Weight (lbs.) |
|-------------|----------------------|----|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|--------------------------|---------------------------------|---------------|
|             | d                    | d  | D                     | Bi     | Be     | N      | M      | E      | A      | H      | R      | J      | P      | G      | Ds (in.)   |                          |                                 |               |
| ER 201      |                      | 12 |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| 201-8       | 1/2                  |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| 202         |                      | 15 | 1.8504                | 1.2188 | 0.6250 | 0.4063 | 0.8125 | 0.4844 | 0.0469 | 0.1719 | 0.1719 | 0.0938 | 2.0625 | 0.1875 | 1/4-28UNF  | 2,740                    | 1,600                           | 0.49          |
| 202-10      | 5/8                  |    | 47.0                  | 31.0   | 15.9   | 10.3   | 20.6   | 12.30  | 1.19   | 4.4    | 4.37   | 2.38   | 52.4   | 4.8    |            |                          |                                 |               |
| 203         |                      | 17 |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| 204-12      | 3/4                  |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| 204         |                      | 20 |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| ER 205-14   | 7/8                  |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| 205-15      | 15/16                |    | 2.0472                | 1.3750 | 0.7500 | 0.5156 | 0.8594 | 0.6094 | 0.0469 | 0.2031 | 0.2344 | 0.0938 | 2.2656 | 0.2188 | 1/4-28UNF  | 3,010                    | 1,750                           | 0.60          |
| 205         |                      | 25 | 52.0                  | 34.9   | 19.1   | 13.1   | 21.8   | 15.48  | 1.19   | 5.2    | 5.95   | 2.38   | 57.5   | 5.6    |            |                          |                                 |               |
| 205-16      | 1                    |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| ER 206-17   | 1 1/16               |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| 206-18      | 1 1/8                |    | 2.4409                | 1.5000 | 0.8661 | 0.6260 | 0.8740 | 0.6760 | 0.6550 | 0.2165 | 0.2421 | 0.1252 | 2.6575 | 0.2362 | 1/4-28UNF  | 4,200                    | 2,430                           | 0.86          |
| 206         |                      | 30 | 62.0                  | 38.1   | 22.0   | 15.9   | 22.2   | 17.17  | 1.65   | 5.5    | 6.15   | 3.18   | 67.5   | 6.0    |            |                          |                                 |               |
| 206-19      | 1 3/16               |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| 206-20      | 1 1/4                |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| ER 207-20   | 1 1/4                |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| 207-21      | 1 5/16               |    | 2.8346                | 1.6890 | 0.9449 | 0.6890 | 1.0000 | 0.7547 | 0.0650 | 0.2165 | 0.2815 | 0.1252 | 3.0906 | 0.2559 | 5/16-24UNF | 5,535                    | 3,340                           | 1.39          |
| 207-22      | 1 3/8                |    | 72.0                  | 42.9   | 24.0   | 17.5   | 25.4   | 19.17  | 1.65   | 5.5    | 7.15   | 3.18   | 78.4   | 6.5    |            |                          |                                 |               |
| 207         |                      | 35 |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| 207-23      | 1 7/16               |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| ER 208-24   | 1 1/2                |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| 208-25      | 1 9/16               |    | 3.1496                | 1.9370 | 1.1024 | 0.7480 | 1.1890 | 0.9122 | 0.0650 | 0.2362 | 0.3602 | 0.1252 | 3.4016 | 0.3150 | 5/16-24UNF | 6,375                    | 3,960                           | 1.79          |
| 208         |                      | 40 | 80.0                  | 49.2   | 28.0   | 19.0   | 30.2   | 23.17  | 1.65   | 6.0    | 9.15   | 3.18   | 86.4   | 8.0    |            |                          |                                 |               |
| ER 209-26   | 1 5/8                |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| 209-27      | 1 11/16              |    | 3.3465                | 1.9370 | 1.1024 | 0.7480 | 1.1890 | 0.9122 | 0.0650 | 0.2362 | 0.3602 | 0.1252 | 3.5984 | 0.3150 | 5/16-24UNF | 7,110                    | 4,460                           | 1.98          |
| 209-28      | 1 3/4                |    | 85.0                  | 49.2   | 28.0   | 19.0   | 30.2   | 23.17  | 1.65   | 6.0    | 9.15   | 3.18   | 91.4   | 8.0    |            |                          |                                 |               |
| 209         |                      | 45 |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| ER 210-30   | 1 7/8                |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| 210-31      | 1 15/16              |    | 3.5433                | 2.0315 | 1.1024 | 0.7480 | 1.2835 | 0.8823 | 0.0949 | 0.2953 | 0.3303 | 0.1252 | 3.7913 | 0.3543 | 3/8-24UNF  | 7,400                    | 4,910                           | 2.16          |
| 210         |                      | 50 | 90.0                  | 51.6   | 28.0   | 19.0   | 32.6   | 22.41  | 2.41   | 7.5    | 8.39   | 3.18   | 96.3   | 9.0    |            |                          |                                 |               |
| 210-32      | 2S                   |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| ER 211-32   | 2                    |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| 211-34      | 2 1/8                |    | 3.9370                | 2.1890 | 1.1811 | 0.8740 | 1.3150 | 0.9610 | 0.0949 | 0.2953 | 0.3697 | 0.1252 | 4.1850 | 0.3543 | 3/8-24UNF  | 9,490                    | 6,440                           | 3.11          |
| 211         |                      | 55 | 100.0                 | 55.6   | 30.0   | 22.2   | 33.4   | 24.41  | 2.41   | 7.5    | 9.39   | 3.18   | 106.3  | 9.0    |            |                          |                                 |               |
| 211-35      | 2 9/16               |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| ER 212-36   | 2 1/4                |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| 212         |                      | 60 | 4.3307                | 2.5630 | 1.2598 | 1.0000 | 1.5630 | 1.0398 | 0.0949 | 0.2953 | 0.4091 | 0.1252 | 4.5827 | 0.4134 | 3/8-24UNF  | 11,500                   | 7,940                           | 4.17          |
| 212-38      | 2 3/8                |    | 110.0                 | 65.1   | 32.0   | 25.4   | 39.7   | 26.41  | 2.41   | 7.5    | 10.39  | 3.18   | 116.4  | 10.5   |            |                          |                                 |               |
| 212-39      | 2 7/16               |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| ER 215-47   | 2 15/16              |    |                       |        |        |        |        |        |        |        |        |        |        |        |            |                          |                                 |               |
| 215         |                      | 75 | 5.1181                | 3.0625 | 1.5000 | 1.3125 | 1.7500 | 1.2344 | 0.1130 | 0.3750 | 0.4844 | 0.1563 | 5.5000 | 0.4375 | 1/2-20UNF  | 14,620                   | 10,540                          | 6.30          |
| 215-48      | 3                    |    | 130.0                 | 77.8   | 38.1   | 33.3   | 44.5   | 31.35  | 2.87   | 9.53   | 12.30  | 3.97   | 139.7  | 11.1   |            |                          |                                 |               |

# SB & CSB Bearing Inserts

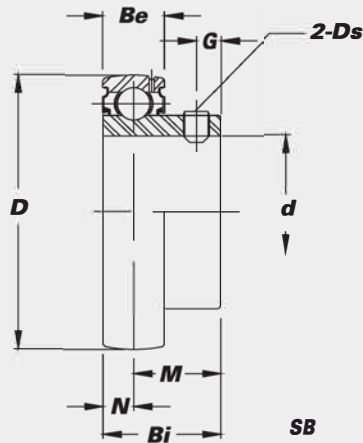


- Set screw lock
- Available relubricatable or non-relubricatable
- Narrow inner race

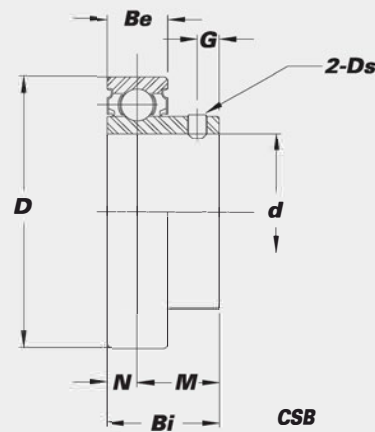
- K-type seals
- Spherical (SB) and cylindrical (CSB)



K-type Seal



SB



CSB

| Bearing No.                      | Bore Dia. of Bearing |      | Dimensions (in.) (mm) |        |        |        |        |        |            | Basic Load Rating (lbs.) | Basic Static Load Rating (lbs.) | Weight (lbs.) |
|----------------------------------|----------------------|------|-----------------------|--------|--------|--------|--------|--------|------------|--------------------------|---------------------------------|---------------|
|                                  | d                    |      | Be                    | D      | Bi     | N      | M      | G      | Ds         |                          |                                 |               |
|                                  | (in.)                | (mm) |                       |        |        |        |        |        |            |                          |                                 |               |
| <b>SB Relubricatable Inserts</b> |                      |      |                       |        |        |        |        |        |            |                          |                                 |               |
| SB 201G                          |                      | 12   |                       |        |        |        |        |        |            |                          |                                 |               |
| 201-8G                           | 1/2                  |      | 0.4724                | 1.5748 | 0.8661 | 0.2362 | 0.6299 | 0.1575 | 10-32UNF   | 2,040                    | 1,020                           | 0.22          |
| 202G                             |                      | 15   | 12.0                  | 40.0   | 22.0   | 6.0    | 16.0   | 4.0    |            |                          |                                 |               |
| 202-10G                          | 5/8                  |      |                       |        |        |        |        |        |            |                          |                                 |               |
| 203G                             |                      | 17   |                       |        |        |        |        |        |            |                          |                                 |               |
| SB 204-12G                       | 3/4                  |      | 0.5512                | 1.8504 | 0.9843 | 0.2756 | 0.7087 | 0.1969 | 1/4-28UNF  | 2,740                    | 1,600                           | 0.33          |
| 204G                             |                      | 20   | 14.0                  | 47.0   | 25.0   | 7.0    | 18.0   | 5.0    |            |                          |                                 |               |
| SB 205-14G                       | 7/8                  |      | 0.5906                | 2.0472 | 1.0630 | 0.2953 | 0.7677 | 0.2165 | 1/4-28UNF  | 3,010                    | 1,750                           | 0.40          |
| 205-15G                          | 15/16                |      | 15.0                  | 52.0   | 27.0   | 7.5    | 19.5   | 5.5    |            |                          |                                 |               |
| 205G                             |                      | 25   |                       |        |        |        |        |        |            |                          |                                 |               |
| 205-16G                          | 1                    |      |                       |        |        |        |        |        |            |                          |                                 |               |
| SB 206-17G                       | 1 1/16               |      | 0.7087                | 2.4409 | 1.1811 | 0.3150 | 0.8661 | 0.2362 | 1/4-28UNF  | 4,200                    | 2,430                           | 0.68          |
| 206-18G                          | 1 1/8                |      | 18.0                  | 62.0   | 30.0   | 8.0    | 22.0   | 6.0    |            |                          |                                 |               |
| 206G                             |                      | 30   |                       |        |        |        |        |        |            |                          |                                 |               |
| 206-19G                          | 1 3/16               |      |                       |        |        |        |        |        |            |                          |                                 |               |
| 206-20G                          | 1 1/4S               |      |                       |        |        |        |        |        |            |                          |                                 |               |
| SB 207-20G                       | 1 1/4                |      | 0.7480                | 2.8346 | 1.2992 | 0.3740 | 0.9252 | 0.2362 | 5/16-24UNF | 5,535                    | 3,340                           | 1.06          |
| 207-21G                          | 1 1/2                |      | 19.0                  | 72.0   | 33.0   | 9.5    | 23.5   | 6.0    |            |                          |                                 |               |
| 207-22G                          | 1 5/8                |      |                       |        |        |        |        |        |            |                          |                                 |               |
| 207G                             |                      | 35   |                       |        |        |        |        |        |            |                          |                                 |               |
| 207-23G                          | 1 7/16               |      |                       |        |        |        |        |        |            |                          |                                 |               |
| SB 208-24G                       | 1 1/2                |      | 0.8661                | 3.1496 | 1.4173 | 0.4331 | 0.9843 | 0.3150 | 5/16-24UNF | 6,375                    | 3,960                           | 1.51          |
| 208-25G                          | 1 3/4                |      | 22.0                  | 80.0   | 36.0   | 11.0   | 25.0   | 8.0    |            |                          |                                 |               |
| 208G                             |                      | 40   |                       |        |        |        |        |        |            |                          |                                 |               |

## SB<sub>N</sub> and CSB Non-Relubricatable Inserts

|            |        |    |        |        |        |        |        |        |            |       |       |      |
|------------|--------|----|--------|--------|--------|--------|--------|--------|------------|-------|-------|------|
| SB 201N    |        | 12 |        |        |        |        |        |        |            |       |       |      |
| 201-8N     | 1/2    |    | 0.4724 | 1.5748 | 0.8661 | 0.2362 | 0.6299 | 0.1575 | 10-32UNF   | 2,040 | 1,020 | 0.22 |
| 202N       |        | 15 | 12.0   | 40.0   | 22.0   | 6.0    | 16.0   | 4.0    |            |       |       |      |
| 202-10N    | 5/8    |    |        |        |        |        |        |        |            |       |       |      |
| 203N       |        | 17 |        |        |        |        |        |        |            |       |       |      |
| SB 204-12N | 3/4    |    | 0.5512 | 1.8504 | 0.9843 | 0.2756 | 0.7087 | 0.1969 | 1/4-28UNF  | 2,740 | 1,600 | 0.33 |
| 204N       |        | 20 | 14.0   | 47.0   | 25.0   | 7.0    | 18.0   | 5.0    |            |       |       |      |
| SB 205-14N | 7/8    |    | 0.5906 | 2.0472 | 1.0630 | 0.2953 | 0.7677 | 0.2165 | 1/4-28UNF  | 3,010 | 1,750 | 0.40 |
| 205-15N    | 15/16  |    | 15.0   | 52.0   | 27.0   | 7.5    | 19.5   | 5.5    |            |       |       |      |
| 205N       |        | 25 |        |        |        |        |        |        |            |       |       |      |
| 205-16N    | 1      |    |        |        |        |        |        |        |            |       |       |      |
| SB 206-17N | 1 1/16 |    | 0.6299 | 2.4409 | 1.1417 | 0.3150 | 0.8267 | 0.2362 | 1/4-28UNF  | 4,200 | 2,430 | 0.60 |
| 206-18N    | 1 1/8  |    | 16.0   | 62.0   | 29.0   | 8.0    | 21.0   | 6.0    |            |       |       |      |
| 206N       |        | 30 |        |        |        |        |        |        |            |       |       |      |
| 206-19N    | 1 3/16 |    |        |        |        |        |        |        |            |       |       |      |
| 206-20N    | 1 1/4S |    |        |        |        |        |        |        |            |       |       |      |
| SB 207-20N | 1 1/4  |    | 0.6693 | 2.8346 | 1.2598 | 0.3346 | 0.9252 | 0.2362 | 5/16-24UNF | 5,535 | 3,340 | 0.93 |
| 207-21N    | 1 1/2  |    | 17.0   | 72.0   | 32.0   | 8.5    | 23.5   | 6.0    |            |       |       |      |
| 207-22N    | 1 5/8  |    |        |        |        |        |        |        |            |       |       |      |
| 207N       |        | 35 |        |        |        |        |        |        |            |       |       |      |
| 207-23N    | 1 7/16 |    |        |        |        |        |        |        |            |       |       |      |
| SB 208-24N | 1 1/2  |    | 0.7087 | 3.1496 | 1.3386 | 0.3543 | 0.9843 | 0.3150 | 5/16-24UNF | 6,375 | 3,960 | 1.32 |
| 208N       |        | 40 | 18.0   | 80.0   | 34.0   | 9.0    | 25.0   | 8.0    |            |       |       |      |

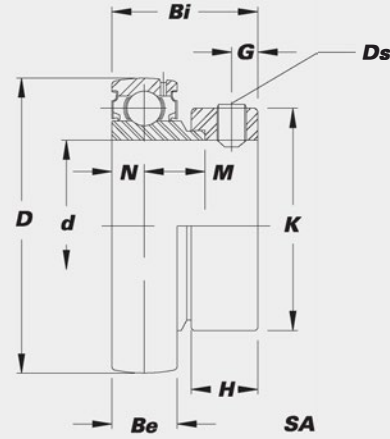
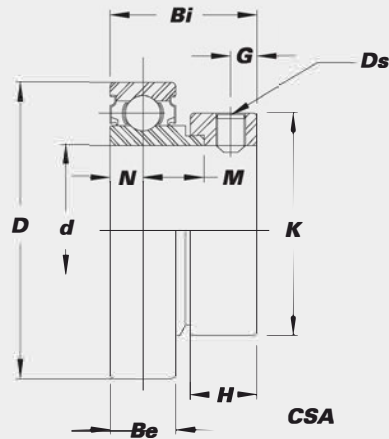
# SA & CSA Bearing Inserts



K-type Seal

- Eccentric locking collar
- Narrow inner race
- K-type seals

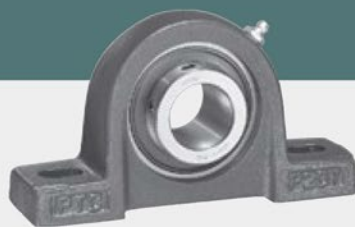
- Available relubricatable (G) or non-relubricatable (N)
- Spherical (SA) and cylindrical (CSA)



| Bearing No. | Bore Dia. of Bearing |      | Dimensions (in.) (mm) |          |           |          |          |          |            |          |          | Basic Load Rating (lbs.) | Basic Static Load Rating (lbs.) | Weight (lbs.) |      |       |      |      |      |     |      |      |
|-------------|----------------------|------|-----------------------|----------|-----------|----------|----------|----------|------------|----------|----------|--------------------------|---------------------------------|---------------|------|-------|------|------|------|-----|------|------|
|             | <i>d</i>             |      | <i>Be</i>             | <i>D</i> | <i>Bi</i> | <i>N</i> | <i>M</i> | <i>G</i> | <i>Ds</i>  | <i>K</i> | <i>H</i> |                          |                                 |               |      |       |      |      |      |     |      |      |
|             | (in.)                | (mm) |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| SA201       |                      | 12   |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| 201-8       | 1/2                  | 15   | 0.5118                | 1.5748   | 1.1260    | 0.2559   | 0.4960   | 0.1890   | 1/4-28UNF  | 1.1260   | 0.5315   | 2,040                    | 1,020                           | 0.29          |      |       |      |      |      |     |      |      |
| 202         | 5/8                  | 13.0 | 40.0                  | 28.6     | 6.5       | 12.6     | 4.8      | 28.6     |            | 13.5     |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| 202-10      |                      | 17   |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| 203         |                      |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| SA204-12    | 3/4                  | 20   | 0.5906                | 1.8504   | 1.2205    | 0.2953   | 0.5512   | 0.1890   | 1/4-28UNF  | 1.3110   | 0.5315   | 2,740                    | 1,600                           | 0.43          |      |       |      |      |      |     |      |      |
| 204         |                      | 15.0 | 47.0                  | 31.0     | 7.5       | 14.0     | 4.8      | 33.3     |            | 13.5     |          |                          |                                 |               |      |       |      |      |      |     |      |      |
|             |                      |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| SA205-14    | 7/8                  | 25   | 0.5906                | 2.0472   | 1.2205    | 0.2953   | 0.5513   | 0.1890   | 1/4-28UNF  | 1.5000   | 0.5315   | 3,010                    | 1,750                           | 0.51          |      |       |      |      |      |     |      |      |
| 205-15      | 15/16                |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               | 15.0 | 52.0  | 31.0 | 7.5  | 14.0 | 4.8 | 38.1 | 13.5 |
| 205         |                      |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| 205-16      | 1                    |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| SA206-17    | 1 1/16               | 30   | 0.7087                | 2.4409   | 1.4055    | 0.3543   | 0.5827   | 0.2362   | 5/16-24UNF | 1.7520   | 0.6260   | 4,200                    | 2,430                           | 0.75          |      |       |      |      |      |     |      |      |
| 206-18      | 1 1/8                |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               | 18.0 | 62.0  | 35.7 | 9.0  | 14.8 | 6.0 | 44.5 | 15.9 |
| 206         |                      |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| 206-19      | 1 3/16               |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| 206-20      | 1 1/4S               |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| SA207-20    | 1 1/4                | 35   | 0.7480                | 2.8346   | 1.5315    | 0.3740   | 0.6260   | 0.2677   | 5/16-24UNF | 2.1890   | 0.6890   | 5,535                    | 3,340                           | 1.26          |      |       |      |      |      |     |      |      |
| 207-21      | 1 5/16               |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               | 19.0 | 72.0  | 38.9 | 9.5  | 15.9 | 6.8 | 55.6 | 17.5 |
| 207-22      | 1 3/8                |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| 207         |                      |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| 207-23      | 1 7/16               |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| SA208-24    | 1 1/2                | 40   | 0.8661                | 3.1496   | 1.7205    | 0.4331   | 0.7559   | 0.2677   | 5/16-24UNF | 2.3740   | 0.7205   | 6,375                    | 3,960                           | 1.65          |      |       |      |      |      |     |      |      |
| 208-25      | 1 9/16               |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               | 22.0 | 80.0  | 43.7 | 11.0 | 19.2 | 6.8 | 60.3 | 18.3 |
| 208         |                      |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| SA209-26    | 1 5/8                | 45   | 0.8661                | 3.3465   | 1.7205    | 0.4331   | 0.7559   | 0.2677   | 5/16-24UNF | 2.5000   | 0.7205   | 7,110                    | 4,460                           | 1.81          |      |       |      |      |      |     |      |      |
| 209-27      | 1 11/16              |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               | 22.0 | 85.0  | 43.7 | 11.0 | 19.2 | 6.8 | 63.5 | 18.3 |
| 209-28      | 1 3/4                |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| 209         |                      |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| SA210-30    | 1 7/8                | 50   | 0.8661                | 3.5433   | 1.7205    | 0.4331   | 0.7559   | 0.2677   | 5/16-24UNF | 2.7520   | 0.7205   | 7,400                    | 4,910                           | 1.87          |      |       |      |      |      |     |      |      |
| 210-31      | 1 15/16              |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               | 22.0 | 90.0  | 43.7 | 11.0 | 19.2 | 6.8 | 69.9 | 18.3 |
| 210         |                      |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| 210-32      | 2S                   |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| SA211-32    | 2                    | 55   | 0.9449                | 3.9370   | 1.9055    | 0.4724   | 0.8031   | 0.3150   | 3/8-24UNF  | 3.0000   | 0.8189   | 9,490                    | 6,440                           | 2.65          |      |       |      |      |      |     |      |      |
| 211-34      | 2 1/8                |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               | 24.0 | 100.0 | 48.4 | 12.0 | 20.4 | 8.0 | 76.2 | 20.8 |
| 211         |                      |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |
| 211-35      | 2 3/16               |      |                       |          |           |          |          |          |            |          |          |                          |                                 |               |      |       |      |      |      |     |      |      |



# UCP Pillow Blocks



**Standard duty. High shaft height with set screw lock.**

- Cast iron housing
- Wide inner race bearing

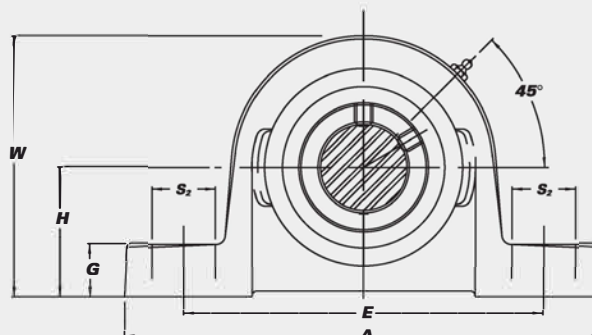
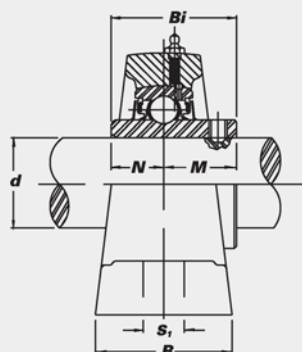
- B-type or L3-type seals
- Available with high temp. bearings - See page 46



B-type Seal



L3-type Seal



| Unit No.   | Shaft Dia.<br>d<br>(in.) (mm) | H  | A         | E        | B       | S <sub>2</sub> | S <sub>1</sub> | G      | W      | Bi      | N      | M      | Bolt Used<br>(in.) | Bearing No. | Housing No. | Weight (lbs.) |
|------------|-------------------------------|----|-----------|----------|---------|----------------|----------------|--------|--------|---------|--------|--------|--------------------|-------------|-------------|---------------|
| UCP 201    |                               | 12 |           |          |         |                |                |        |        |         |        |        |                    | UCW 201     |             |               |
| 201-8      | 1/2                           | 15 | 1 11/16   | 4 7/8    | 3 5/8   | 1 1/16         | 3/4            | 7/16   | 17/32  | 2 23/64 | 1.0236 | 0.3937 | 0.6299             | 3/8         | 201-8       |               |
| 202        |                               | 15 | 30.2      | 124      | 92      | 37             | 19             | 11     | 13     | 60      | 26.0   | 10.0   | 16.0               |             | P 203       | 1.5           |
| 202-10     | 5/8                           | 17 |           |          |         |                |                |        |        |         |        |        |                    |             | 202-10      |               |
| 203        |                               | 17 |           |          |         |                |                |        |        |         |        |        |                    |             | 203         |               |
| UCP 204-12 | 3/4                           | 20 | 1 5/16    | 5        | 3 3/4   | 1 1/2          | 1 1/16         | 7/16   | 9/16   | 2 19/32 | 1.2205 | 0.5000 | 0.7205             | 3/8         | UC 204-12   | P 204         |
| 204        |                               | 20 | 33.3      | 127      | 95      | 38             | 17             | 11     | 14     | 66      | 31.0   | 12.7   | 18.3               |             | 204         | 1.6           |
| UCP 205-14 | 7/8                           | 25 | 1 7/16    | 5 1/2    | 4 1/8   | 1 1/2          | 1 1/16         | 1/2    | 5/8    | 2 27/32 | 1.3386 | 0.5630 | 0.7756             | 3/8         | UC 205-14   | P 205         |
| 205-15     | 15/16                         | 25 | 36.5      | 140      | 105     | 38             | 17             | 13     | 16     | 72      | 34.0   | 14.3   | 19.7               |             | 205-15      | 2.0           |
| 205        |                               | 25 |           |          |         |                |                |        |        |         |        |        |                    |             | 205         |               |
| 205-16     | 1                             | 25 |           |          |         |                |                |        |        |         |        |        |                    |             | 205-16      |               |
| UCP 206-17 | 1 1/16                        | 30 | 1 11/16*  | 6 5/16   | 4 3/4   | 1 3/4          | 1 3/16         | 9/16   | 1 1/16 | 3 19/64 | 1.5000 | 0.6260 | 0.8740             | 1/2         | UC 206-17   | P 206         |
| 206-18     | 1 1/8                         | 30 | 42.9      | 160      | 121     | 44             | 21             | 14     | 18     | 84      | 38.1   | 15.9   | 22.2               |             | 206-18      | 3.0           |
| 206        |                               | 30 |           |          |         |                |                |        |        |         |        |        |                    |             | 206         |               |
| 206-19     | 1 3/16                        | 30 |           |          |         |                |                |        |        |         |        |        |                    |             | 206-19      |               |
| 206-20     | 1 1/4S                        | 30 |           |          |         |                |                |        |        |         |        |        |                    |             | 206-20      |               |
| UCP 207-20 | 1 1/4                         | 35 | 1 7/8     | 6 11/32  | 5       | 1 29/32        | 7/8            | 9/16   | 3/4    | 3 11/16 | 1.6890 | 0.6890 | 1.0000             | 1/2         | UC 207-20   | P 207         |
| 207-21     | 1 1/8                         | 35 | 47.6      | 166      | 127     | 48             | 22             | 14     | 19     | 94      | 42.9   | 17.5   | 25.4               |             | 207-21      | 4.0           |
| 207-22     | 1 3/8                         | 35 |           |          |         |                |                |        |        |         |        |        |                    |             | 207-22      |               |
| 207        |                               | 35 |           |          |         |                |                |        |        |         |        |        |                    |             | 207         |               |
| 207-23     | 1 7/16                        | 35 |           |          |         |                |                |        |        |         |        |        |                    |             | 207-23      |               |
| UCP 208-24 | 1 1/2                         | 40 | 1 15/16** | 7 1/8    | 5 1/16  | 2              | 7/8            | 9/16   | 1 3/16 | 4       | 1.9370 | 0.7480 | 1.1890             | 1/2         | UC 208-24   | P 208         |
| 208-25     | 1 9/16                        | 40 | 49.2      | 181      | 137     | 51             | 22             | 14     | 21     | 102     | 49.2   | 19.0   | 30.2               |             | 208-25      | 5.0           |
| 208        |                               | 40 |           |          |         |                |                |        |        |         |        |        |                    |             | 208         |               |
| UCP 209-26 | 1 5/8                         | 45 | 2 1/8     | 7 1/2    | 5 3/4   | 2 1/8          | 1 3/16         | 1 9/32 | 7/8    | 4 17/64 | 1.9370 | 0.7480 | 1.1890             | 1/2         | UC 209-26   | P 209         |
| 209-27     | 1 11/16                       | 45 | 54.0      | 190      | 146     | 54             | 21             | 15     | 22     | 109     | 49.2   | 19.0   | 30.2               |             | 209-27      | 5.7           |
| 209-28     | 1 3/4                         | 45 |           |          |         |                |                |        |        |         |        |        |                    |             | 209-28      |               |
| 209        |                               | 45 |           |          |         |                |                |        |        |         |        |        |                    |             | 209         |               |
| UCP 210-30 | 1 7/8                         | 50 | 2 1/4     | 8        | 6 1/4   | 2 1/4          | 1 5/16         | 2 3/32 | 1 5/16 | 4 33/64 | 2.0315 | 0.7480 | 1.2835             | 5/8         | UC 210-30   | P 210         |
| 210-31     | 1 15/16                       | 50 | 57.2      | 203      | 159     | 57             | 24             | 18     | 24     | 115     | 51.6   | 19.0   | 32.6               |             | 210-31      | 6.8           |
| 210        |                               | 50 |           |          |         |                |                |        |        |         |        |        |                    |             | 210         |               |
| 210-32     | 2S                            | 50 |           |          |         |                |                |        |        |         |        |        |                    |             | 210-32      |               |
| UCP 211-32 | 2                             | 55 | 2 1/2     | 8 5/8    | 6 7/8   | 2 3/8          | 1 5/16         | 2 3/32 | 1 1/16 | 5 1/32  | 2.1890 | 0.8740 | 1.3150             | 5/8         | UC 211-32   | P 211         |
| 211-34     | 2 1/8                         | 55 | 63.5      | 220      | 174     | 60             | 24             | 18     | 27     | 128     | 55.6   | 22.2   | 33.4               |             | 211-34      | 8.8           |
| 211        |                               | 55 |           |          |         |                |                |        |        |         |        |        |                    |             | 211         |               |
| 211-35     | 2 3/16                        | 55 |           |          |         |                |                |        |        |         |        |        |                    |             | 211-35      |               |
| UCP 212-36 | 2 1/4                         | 60 | 2 3/4     | 9 17/32  | 7 11/32 | 2 1/2          | 1              | 2 5/32 | 1 1/16 | 5 33/64 | 2.5630 | 1.0000 | 1.5630             | 5/8         | UC 212-36   | P 212         |
| 212        |                               | 60 | 69.8      | 242      | 187     | 64             | 25.4           | 20     | 27     | 140     | 65.1   | 25.4   | 39.7               |             | 212         | 11.2          |
| 212-38     | 2 3/8                         | 60 |           |          |         |                |                |        |        |         |        |        |                    |             | 212-38      |               |
| 212-39     | 2 1/16                        | 60 |           |          |         |                |                |        |        |         |        |        |                    |             | 212-39      |               |
| UCP 213-40 | 2 1/2                         | 65 | 3         | 10 3/4   | 8 1/8   | 2 11/16        | 1 3/16         | 1 3/16 | 1 1/8  | 6 1/32  | 2.5630 | 1.0000 | 1.5630             | 5/8         | UC 213-40   | PX12          |
| 213        |                               | 65 | 76.2      | 273      | 206     | 68             | 30             | 20     | 28     | 153     | 65.1   | 25.4   | 39.7               |             | 213         | 14.1          |
| UCP 214-43 | 2 11/16                       | 70 | 3         | 10 3/4   | 8 1/8   | 2 1/2          | 1 3/16         | 1 3/16 | 1 1/8  | 6 1/32  | 2.9370 | 1.1890 | 1.7480             | 5/8         | UC 214-43   | PX13          |
| 214-44     | 2 3/4                         | 70 | 76.2      | 273      | 206     | 64             | 30             | 20     | 28     | 153     | 74.6   | 30.2   | 44.4               |             | 214-44      | 14.5          |
| 214        |                               | 70 |           |          |         |                |                |        |        |         |        |        |                    |             | 214         |               |
| UCP 215-47 | 2 5/16                        | 75 | 3 1/4     | 10 13/16 | 8 1/2   | 2 15/16        | 1 1/4          | 1      | 1 1/8  | 6 33/64 | 3.0630 | 1.3110 | 1.7520             | 7/8         | UC 215-47   | P 215         |
| 215        |                               | 75 | 82.6      | 275      | 217     | 75             | 31             | 25.4   | 29     | 166     | 77.8   | 33.3   | 44.5               |             | 215         | 17.0          |
| 215-48     | 3                             | 75 |           |          |         |                |                |        |        |         |        |        |                    |             | 215-48      |               |

Interchange Page 47. \*Also available 1 5/8" \*\*Also available 2 1/8"

# UCPX Pillow Blocks



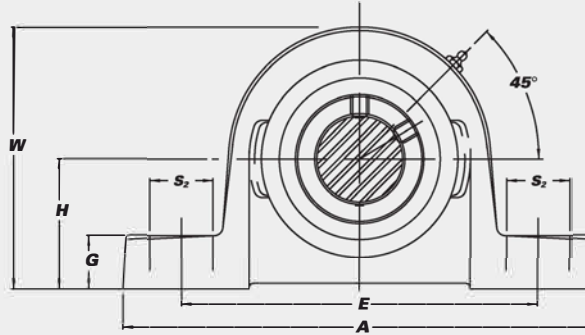
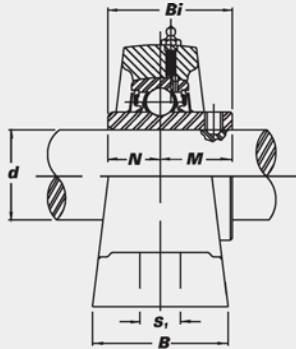
B-type Seal



L3-type Seal

## Medium duty with set screw lock.

- Wide inner race bearing with greater load carrying capacity than standard duty
- Cast iron housing
- B-type seals
- L3-type seals available in some sizes



| Unit No.                              | Shaft Dia.                                                                                          |     | Dimensions (in.) (mm)                 |                                         |                                         |                                        |                                       |                                       |                                       |                                         |                 |                |                | Bolt Used                   | Bearing No.                          | Housing No. | Weight (lbs.) |
|---------------------------------------|-----------------------------------------------------------------------------------------------------|-----|---------------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------------|-----------------|----------------|----------------|-----------------------------|--------------------------------------|-------------|---------------|
|                                       | d                                                                                                   |     | H                                     | A                                       | E                                       | B                                      | S <sub>2</sub>                        | S <sub>1</sub>                        | G                                     | W                                       | Bi              | N              | M              |                             |                                      |             |               |
| UCP X05-14<br>X05-15<br>X05-16        | <sup>7</sup> / <sub>8</sub><br><sup>15</sup> / <sub>16</sub><br>1                                   | 25  | <sup>11</sup> / <sub>16</sub><br>42.9 | <sup>65</sup> / <sub>16</sub><br>160    | <sup>43</sup> / <sub>4</sub><br>121     | <sup>13</sup> / <sub>4</sub><br>44     | <sup>13</sup> / <sub>16</sub><br>21   | <sup>9</sup> / <sub>16</sub><br>14.2  | <sup>11</sup> / <sub>16</sub><br>18   | <sup>319</sup> / <sub>64</sub><br>83.7  | 1.5000<br>38.1  | 0.6260<br>15.9 | 0.8740<br>22.2 | <sup>1</sup> / <sub>2</sub> | UC X05-14<br>X05-15<br>X05-16        | P X05       | 3.5           |
| UCP X06-18<br>X06-19<br>X06-20        | <sup>1</sup> / <sub>8</sub><br><sup>13</sup> / <sub>16</sub><br><sup>1</sup> / <sub>4</sub>         | 30  | <sup>1</sup> / <sub>8</sub><br>47.6   | <sup>617</sup> / <sub>32</sub><br>165.9 | 5<br>127                                | <sup>129</sup> / <sub>32</sub><br>48.5 | <sup>7</sup> / <sub>8</sub><br>22.4   | <sup>9</sup> / <sub>16</sub><br>14.2  | <sup>3</sup> / <sub>4</sub><br>19.1   | <sup>311</sup> / <sub>16</sub><br>93.7  | 1.6890<br>42.9  | 0.6890<br>17.5 | 1.0000<br>25.4 | <sup>1</sup> / <sub>2</sub> | UC X06-18<br>X06-19<br>X06-20        | P 207       | 4.6           |
| UCP X07-22<br>X07-23                  | <sup>13</sup> / <sub>16</sub><br><sup>1</sup> / <sub>2</sub>                                        | 35  | <sup>2</sup> / <sub>8</sub><br>54.0   | <sup>71</sup> / <sub>4</sub><br>184.2   | <sup>517</sup> / <sub>32</sub><br>140.5 | <sup>115</sup> / <sub>16</sub><br>49.2 | <sup>15</sup> / <sub>16</sub><br>23.8 | <sup>9</sup> / <sub>16</sub><br>14.2  | <sup>13</sup> / <sub>16</sub><br>20.6 | <sup>43</sup> / <sub>16</sub><br>106.4  | 1.9370<br>49.2  | 0.7480<br>19.0 | 1.1890<br>30.2 | <sup>1</sup> / <sub>2</sub> | UC X07-22<br>X07-23                  | P X07       | 6.0           |
| UCP X08-24<br>X08                     | <sup>1</sup> / <sub>2</sub>                                                                         | 40  | <sup>2</sup> / <sub>8</sub><br>54.0   | <sup>71</sup> / <sub>2</sub><br>190.5   | <sup>53</sup> / <sub>4</sub><br>146.1   | <sup>21</sup> / <sub>8</sub><br>54.1   | <sup>13</sup> / <sub>16</sub><br>20.6 | <sup>19</sup> / <sub>32</sub><br>15   | <sup>7</sup> / <sub>8</sub><br>22.3   | <sup>417</sup> / <sub>64</sub><br>108.3 | 1.9370<br>49.2  | 0.7480<br>19.0 | 1.1890<br>30.2 | <sup>1</sup> / <sub>2</sub> | UC X08-24<br>X08                     | P 209       | 7.7           |
| UCP X09-26<br>X09-27<br>X09-28<br>X09 | <sup>15</sup> / <sub>16</sub><br><sup>11</sup> / <sub>16</sub><br><sup>13</sup> / <sub>4</sub><br>1 | 45  | <sup>2</sup> / <sub>4</sub><br>57.2   | 8<br>203.2                              | <sup>61</sup> / <sub>4</sub><br>158.8   | <sup>21</sup> / <sub>4</sub><br>57.2   | <sup>15</sup> / <sub>16</sub><br>23.8 | <sup>23</sup> / <sub>32</sub><br>18.3 | <sup>15</sup> / <sub>16</sub><br>23.8 | <sup>439</sup> / <sub>64</sub><br>114.7 | 2.0315<br>51.6  | 0.7480<br>19.0 | 1.2835<br>32.6 | <sup>5</sup> / <sub>8</sub> | UC X09-26<br>X09-27<br>X09-28<br>X09 | P 210       | 8.2           |
| UCP X10-30<br>X10-31<br>X10-32        | <sup>1</sup> / <sub>8</sub><br><sup>15</sup> / <sub>16</sub><br>2                                   | 50  | <sup>2</sup> / <sub>2</sub><br>63.5   | <sup>85</sup> / <sub>8</sub><br>219.2   | <sup>67</sup> / <sub>8</sub><br>174.8   | <sup>23</sup> / <sub>8</sub><br>60.5   | <sup>15</sup> / <sub>16</sub><br>23.8 | <sup>23</sup> / <sub>32</sub><br>18.3 | <sup>11</sup> / <sub>16</sub><br>26.9 | <sup>51</sup> / <sub>32</sub><br>127.8  | 2.1890<br>55.6  | 0.8740<br>22.2 | 1.3150<br>33.4 | <sup>5</sup> / <sub>8</sub> | UC X10-30<br>X10-31<br>X10-32        | P 211       | 10.1          |
| UCP X11-34<br>X11<br>X11-35<br>X11-36 | <sup>2</sup> / <sub>8</sub><br><sup>23</sup> / <sub>16</sub><br><sup>2</sup> / <sub>4</sub>         | 55  | <sup>29</sup> / <sub>4</sub><br>69.8  | <sup>917</sup> / <sub>32</sub><br>242.1 | <sup>711</sup> / <sub>32</sub><br>186.4 | <sup>21</sup> / <sub>2</sub><br>63.5   | 1<br>25.4                             | <sup>25</sup> / <sub>32</sub><br>19.8 | <sup>11</sup> / <sub>16</sub><br>26.9 | <sup>539</sup> / <sub>64</sub><br>140.1 | 2.5630<br>65.1  | 1.0000<br>25.4 | 1.5630<br>39.7 | <sup>5</sup> / <sub>8</sub> | UC X11-34<br>X11<br>X11-35<br>X11-36 | P 212       | 14.1          |
| UCP X12<br>X12-38<br>X12-39           | <sup>23</sup> / <sub>16</sub><br><sup>2</sup> / <sub>16</sub>                                       | 60  | 3<br>76.2                             | <sup>109</sup> / <sub>4</sub><br>273.1  | <sup>81</sup> / <sub>8</sub><br>206.4   | <sup>211</sup> / <sub>16</sub><br>68.3 | <sup>13</sup> / <sub>16</sub><br>30.2 | <sup>13</sup> / <sub>16</sub><br>20.4 | <sup>11</sup> / <sub>8</sub><br>28.6  | <sup>583</sup> / <sub>64</sub><br>152   | 2.5630<br>65.1  | 1.0000<br>25.4 | 1.5630<br>39.7 | <sup>5</sup> / <sub>8</sub> | UC X12<br>X12-38<br>X12-39           | P X12       | 17.0          |
| UCP X13-40<br>X13                     | <sup>2</sup> / <sub>2</sub>                                                                         | 65  | 3<br>76.2                             | <sup>109</sup> / <sub>4</sub><br>273.1  | <sup>81</sup> / <sub>8</sub><br>206.4   | <sup>211</sup> / <sub>16</sub><br>68.3 | <sup>13</sup> / <sub>16</sub><br>30.2 | <sup>13</sup> / <sub>16</sub><br>20.4 | <sup>11</sup> / <sub>8</sub><br>28.6  | <sup>583</sup> / <sub>64</sub><br>152   | 2.9370<br>74.6  | 1.1890<br>30.2 | 1.7480<br>44.4 | <sup>5</sup> / <sub>8</sub> | UC X13-40<br>X13                     | P X13       | 17.3          |
| UCP X14-43<br>X14-44<br>X14           | <sup>211</sup> / <sub>16</sub><br><sup>23</sup> / <sub>4</sub>                                      | 70  | <sup>31</sup> / <sub>2</sub><br>88.9  | 13<br>330                               | 9<br>229                                | <sup>31</sup> / <sub>2</sub><br>89     | 2<br>51                               | <sup>11</sup> / <sub>16</sub><br>27   | <sup>13</sup> / <sub>8</sub><br>35    | <sup>625</sup> / <sub>32</sub><br>172   | 3.0630<br>77.8  | 1.3110<br>33.3 | 1.7520<br>44.5 | <sup>7</sup> / <sub>8</sub> | UC X14-43<br>X14-44<br>X14           | P X14       | 24.5          |
| UCP X15<br>X15-47<br>X15-48           | <sup>215</sup> / <sub>16</sub><br>3                                                                 | 75  | <sup>31</sup> / <sub>2</sub><br>88.9  | <sup>119</sup> / <sub>4</sub><br>298.5  | <sup>91</sup> / <sub>8</sub><br>231.8   | 3<br>76.2                              | <sup>17</sup> / <sub>16</sub><br>36.5 | 1<br>25.4                             | <sup>13</sup> / <sub>8</sub><br>35    | <sup>71</sup> / <sub>32</sub><br>178.6  | 3.2520<br>82.6  | 1.3110<br>33.3 | 1.9410<br>49.3 | <sup>7</sup> / <sub>8</sub> | UC X15<br>X15-47<br>X15-48           | P X15       | 23.6          |
| UCP X17<br>X17-55<br>X17-56           | <sup>37</sup> / <sub>16</sub><br><sup>3</sup> / <sub>2</sub>                                        | 85  | 4<br>101.6                            | 14<br>355.6                             | <sup>111</sup> / <sub>16</sub><br>281   | <sup>33</sup> / <sub>8</sub><br>85.7   | <sup>113</sup> / <sub>16</sub><br>46  | 1<br>25.4                             | <sup>19</sup> / <sub>16</sub><br>40   | 8<br>203.2                              | 3.7795<br>96.0  | 1.5630<br>39.7 | 2.2165<br>56.3 | <sup>7</sup> / <sub>8</sub> | UC X17<br>X17-55<br>X17-56           | P X17       | 35.7          |
| UCP X20<br>X20-63<br>X20-64           | <sup>315</sup> / <sub>16</sub><br>4                                                                 | 100 | 5<br>127.0                            | 17<br>432                               | <sup>133</sup> / <sub>4</sub><br>337    | 4<br>102                               | 2<br>51                               | 1.13<br>29                            | <sup>113</sup> / <sub>16</sub><br>46  | <sup>927</sup> / <sub>32</sub><br>250   | 4.6260<br>117.5 | 1.9370<br>49.2 | 2.6890<br>68.3 | 1                           | UC X20<br>X20-63<br>X20-64           | P X20       | 66.8          |

Interchange Page 47





# UCT Take Up Units

## Wide slot, standard duty with set screw lock.

- Cast iron housing
- Wide inner race bearing
- Available with high temp. bearing - See page 46

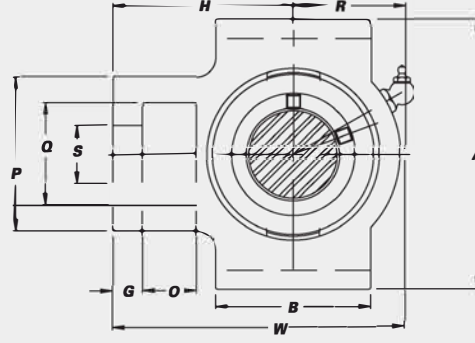
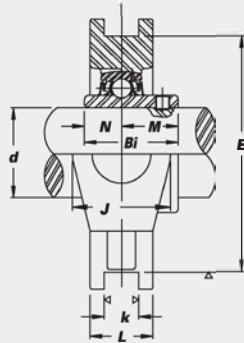
- B-type seals
- L3-type seals available in some sizes



B-type Seal



L3-type Seal



| Unit No.   | Shaft Dia.<br><i>d</i> |      | Dimensions (in.) (mm) |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | Bearing No. | Housing No. | Weight (lbs.) |
|------------|------------------------|------|-----------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|-------------|-------------|---------------|
|            | (in.)                  | (mm) | O                     | G     | P       | Q       | S       | B       | k       | E       | A       | W       | J       | L       | R       | H       | Bi     | N      | M      |             |             |               |
| UCT 201    |                        | 12   |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | UC 201      |             |               |
| 201-8      | 1/2                    |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | 201-8       |             |               |
| 202        |                        | 15   | 5/8                   | 13/32 | 2       | 1 1/4   | 3/4     | 2       | 17/32   | 3       | 3 1/2   | 3 11/16 | 1 1/4   | 1 13/16 | 1 5/16  | 2 13/32 | 1.2205 | 0.5000 | 0.7205 | 202         | T 204       | 1.7           |
| 202-10     | 5/8                    |      | 16                    | 10    | 51      | 32      | 19      | 51      | 13.5    | 76.2    | 89      | 94      | 32      | 21      | 33      | 61      | 31.0   | 12.7   | 18.3   | 202-10      |             |               |
| 203        |                        | 17   |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | 203         |             |               |
| 204-12     | 3/4                    |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | 204-12      |             |               |
| 204        |                        | 20   |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | 204         |             |               |
| UCT 205-14 | 7/8                    |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | UC 205-14   |             |               |
| 205-15     | 1 5/16                 |      | 5/8                   | 13/32 | 2       | 1 1/4   | 3/4     | 2       | 17/32   | 3       | 3 1/2   | 3 13/16 | 1 1/4   | 1 15/16 | 1 3/8   | 2 7/16  | 1.3386 | 0.5630 | 0.7756 | 205-15      | T 205       | 1.9           |
| 205        |                        | 25   | 16                    | 10    | 51      | 32      | 19      | 51      | 13.5    | 76.2    | 89      | 97      | 32      | 24      | 35      | 62      | 34.0   | 14.3   | 19.7   | 205         |             |               |
| 205-16     | 1                      |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | 205-16      |             |               |
| UCT 206-17 | 1 1/16                 |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | UC 206-17   |             |               |
| 206-18     | 1 1/8                  |      | 5/8                   | 13/32 | 2 7/32  | 1 15/32 | 55/64   | 2 1/4   | 17/32   | 3 1/2   | 4 1/32  | 4 7/16  | 1 15/32 | 1 3/32  | 1 11/16 | 2 3/4   | 1.5000 | 0.6260 | 0.8740 | 206-18      | T 206       | 2.9           |
| 206        |                        | 30   | 16                    | 10    | 56      | 37      | 22      | 57      | 13.5    | 88.9    | 102     | 113     | 37      | 28      | 43      | 70      | 38.1   | 15.9   | 22.2   | 206         |             |               |
| 206-19     | 1 3/16                 |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | 206-19      |             |               |
| 206-20     | 1 1/4 S                |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | 206-20      |             |               |
| UCT 207-20 | 1 1/4                  |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | UC 207-20   |             |               |
| 207-21     | 1 5/16                 |      | 5/8                   | 1/2   | 2 17/32 | 1 15/32 | 55/64   | 2 17/32 | 17/32   | 3 1/2   | 4 1/32  | 5 3/32  | 1 15/32 | 1 3/16  | 2       | 3 1/16  | 1.6890 | 0.6890 | 1.0000 | 207-21      | T 207       | 3.5           |
| 207-22     | 1 3/8                  |      | 16                    | 13    | 64      | 37      | 22      | 64      | 13.5    | 88.9    | 102     | 129     | 37      | 30      | 51      | 78      | 42.9   | 17.5   | 25.4   | 207-22      |             |               |
| 207        |                        | 35   |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | 207         |             |               |
| 207-23     | 1 7/16                 |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | 207-23      |             |               |
| UCT 208-24 | 1 1/2                  |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | UC 208-24   |             |               |
| 208-25     | 1 9/16                 |      | 3/4                   | 5/8   | 3 3/32  | 1 15/16 | 1 9/64  | 3 3/32  | 1 11/16 | 4       | 4 1/2   | 5 21/32 | 1 15/16 | 1 5/16  | 2 7/32  | 3 15/32 | 1.9370 | 0.7480 | 1.1890 | 208-25      | T 208       | 5.5           |
| 208        |                        | 40   | 19                    | 16    | 83      | 49      | 29      | 83      | 17.5    | 101.6   | 114     | 144     | 49      | 33      | 56      | 88      | 49.2   | 19.0   | 30.2   | 208         |             |               |
| UCT 209-26 | 1 5/8                  |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | UC 209-26   |             |               |
| 209-27     | 1 11/16                |      | 3/4                   | 5/8   | 3 3/32  | 1 15/16 | 1 9/64  | 3 3/32  | 1 11/16 | 4       | 4 19/32 | 5 21/32 | 1 15/16 | 1 3/8   | 2 1/4   | 3 7/16  | 1.9370 | 0.7480 | 1.1890 | 209-27      | T 209       | 5.5           |
| 209-28     | 1 3/4                  |      | 19                    | 16    | 83      | 49      | 29      | 83      | 17.5    | 101.6   | 117     | 144     | 49      | 35      | 57      | 87      | 49.2   | 19.0   | 30.2   | 209-28      |             |               |
| 209        |                        | 45   |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | 209         |             |               |
| UCT 210-30 | 1 7/8                  |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | UC 210-30   |             |               |
| 210-31     | 1 15/16                |      | 3/4                   | 5/8   | 3 3/32  | 1 15/16 | 1 9/64  | 3 3/8   | 1 11/16 | 4       | 4 19/32 | 5 7/8   | 1 15/16 | 1 15/32 | 2 5/16  | 3 17/32 | 2.0315 | 0.7480 | 1.2835 | 210-31      | T 210       | 5.7           |
| 210        |                        | 50   | 19                    | 16    | 83      | 49      | 29      | 86      | 17.5    | 101.6   | 117     | 149     | 49      | 37      | 59      | 90      | 51.6   | 19.0   | 32.6   | 210         |             |               |
| 210-32     | 2 S                    |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | 210-32      |             |               |
| UCT 211-32 | 2                      |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | UC 211-32   |             |               |
| 211-34     | 2 1/8                  |      | 1                     | 3/4   | 4 1/32  | 2 17/32 | 1 3/8   | 3 3/4   | 1 11/16 | 5 1/8   | 5 3/4   | 6 23/32 | 2 17/32 | 1 1/2   | 2 9/16  | 4 3/16  | 2.1890 | 0.8740 | 1.3150 | 211-34      | T 211       | 8.8           |
| 211        |                        | 55   | 25                    | 19    | 102     | 64      | 35      | 95      | 27      | 130.2   | 146     | 171     | 64      | 38      | 65      | 106     | 55.6   | 22.2   | 33.4   | 211         |             |               |
| 211-35     | 2 3/16                 |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | 211-35      |             |               |
| UCT 212-36 | 2 1/4                  |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | UC 212-36   |             |               |
| 212        |                        | 60   | 1 1/4                 | 3/4   | 4 1/32  | 2 17/32 | 1 3/8   | 4 1/32  | 1 11/16 | 5 1/8   | 5 3/4   | 7 5/8   | 2 17/32 | 2 13/32 | 2 15/16 | 4 11/16 | 2.5630 | 1.0000 | 1.5630 | 212         | T 212       | 10.6          |
| 212-38     | 2 3/8                  |      | 32                    | 19    | 102     | 64      | 35      | 102     | 27      | 130.2   | 146     | 194     | 64      | 42      | 75      | 119     | 65.1   | 25.4   | 39.7   | 212-38      |             |               |
| 212-39     | 2 1/16                 |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | 212-39      |             |               |
| UCT 213-40 | 2 1/2                  |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | UC 213-40   |             |               |
| 213        |                        | 65   | 1 1/4                 | 13/16 | 4 3/8   | 2 3/4   | 1 39/64 | 4 3/4   | 1 11/16 | 5 15/16 | 6 9/16  | 8 13/16 | 2 3/4   | 2 23/32 | 3 7/16  | 5 13/32 | 2.5630 | 1.0000 | 1.5630 | 213         | T 213       | 15.2          |
| UCT 215-47 | 2 15/16                |      |                       |       |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        | UC 215-47   |             |               |
| 215        |                        | 75   | 1 1/4                 | 13/16 | 4 3/8   | 2 3/4   | 1 39/64 | 4 3/4   | 1 11/16 | 5 15/16 | 6 9/16  | 9 1/8   | 2 3/4   | 1 7/8   | 3 3/8   | 5 1/2   | 3.0630 | 1.3110 | 1.7520 | 215         | T 215       | 15.9          |
| 215-48     | 3                      |      | 32                    | 21    | 111     | 70      | 41      | 121     | 27      | 150.8   | 167     | 232     | 70      | 48      | 92      | 140     | 77.8   | 33.3   | 44.5   | 215-48      |             |               |

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# NAP Pillow Blocks



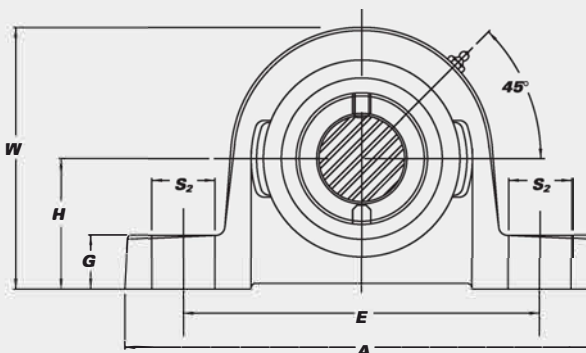
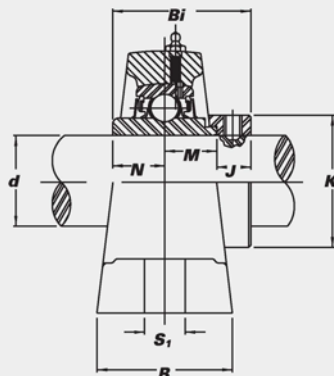
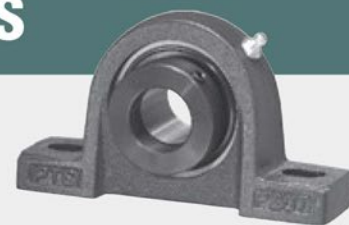
B-type Seal



L3-type Seal

**Standard duty. High shaft height with eccentric locking collar.**

- Cast iron housing
- Wide inner race bearing
- B-type or L3-type seals



| Unit No.   | Shaft Dia. |    | Dimensions (in.) (mm) |          |         |                |                |        |        |         |        |        |        |        |        | Bolt Used (in.) | Bearing No. | Housing No. | Weight (lbs.) |
|------------|------------|----|-----------------------|----------|---------|----------------|----------------|--------|--------|---------|--------|--------|--------|--------|--------|-----------------|-------------|-------------|---------------|
|            | d          | H  | A                     | E        | B       | S <sub>2</sub> | S <sub>1</sub> | G      | W      | Bi      | N      | M      | J      | K      |        |                 |             |             |               |
|            |            |    |                       |          |         |                |                |        |        |         |        |        |        |        | (in.)  |                 |             |             |               |
| NAP 201    |            | 12 |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | NAW201      |             |               |
| 201-8      | 1/2        |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | 201-8       |             |               |
| 202        |            | 15 | 1 3/16                | 4 7/8    | 3 5/8   | 1 7/16         | 3/4            | 7/16   | 1 7/32 | 2 23/64 | 1.4685 | 0.5472 | 0.5472 | 0.3740 | 1.1260 | 3/8             | P 203       | 1.6         |               |
| 202-10     | 5/8        |    | 30.2                  | 124      | 92      | 37             | 19             | 11     | 13     | 60      | 37.3   | 13.9   | 13.9   | 9.5    | 28.6   |                 | 202-10      |             |               |
| 203        |            | 17 |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | 203         |             |               |
| NAP 204-12 | 3/4        |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | NA 204-12   | P 204       | 1.7           |
| 204        |            | 20 | 1 5/16                | 5        | 3 3/4   | 1 1/2          | 1 1/16         | 7/16   | 9/16   | 2 19/32 | 1.7126 | 0.6693 | 0.6693 | 0.3740 | 1.3110 | 3/8             | 204         |             |               |
|            |            |    | 33.3                  | 127      | 95      | 38             | 17             | 11     | 14     | 66      | 43.5   | 17.0   | 17.0   | 9.5    | 33.3   |                 |             |             |               |
| NAP 205-14 | 7/8        |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | NA 205-14   |             |               |
| 205-15     | 1 5/16     |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | 205-15      | P 205       | 2.1           |
| 205        |            | 25 | 1 7/16                | 5 1/2    | 4 1/8   | 1 1/2          | 1 1/16         | 1/2    | 5/8    | 2 27/32 | 1.7441 | 0.6850 | 0.6850 | 0.3740 | 1.5000 | 3/8             | 205         |             |               |
| 205-16     | 1          |    | 36.5                  | 140      | 105     | 38             | 17             | 13     | 16     | 72      | 44.3   | 17.4   | 17.4   | 9.5    | 38.1   |                 | 205-16      |             |               |
| NAP 206-17 | 1 1/16     |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | NA 206-17   |             |               |
| 206-18     | 1 1/8      |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | 206-18      | P 206       | 3.1           |
| 206        |            | 30 | 1 11/16*              | 6 5/16   | 4 3/4   | 1 3/4          | 1 3/16         | 9/16   | 1 1/16 | 3 19/64 | 1.9016 | 0.7165 | 0.7165 | 0.4685 | 1.7520 | 1/2             | 206         |             |               |
| 206-19     | 1 3/16     |    | 42.9                  | 160      | 121     | 44             | 21             | 14     | 18     | 84      | 48.3   | 18.2   | 18.2   | 11.9   | 44.5   |                 | 206-19      |             |               |
| 206-20     | 1 1/4S     |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | 206-20      |             |               |
| NAP 207-20 | 1 1/4      |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | NA 207-20   |             |               |
| 207-21     | 1 5/16     |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | 207-21      | P 207       | 4.2           |
| 207-22     | 1 3/8      |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | 207-22      |             |               |
| 207        |            | 35 | 1 7/8                 | 6 17/32  | 5       | 1 29/32        | 7/8            | 9/16   | 3/4    | 3 11/16 | 2.0118 | 0.7402 | 0.7402 | 0.5315 | 2.1890 | 1/2             | 207         |             |               |
| 207-23     | 1 7/16     |    | 47.6                  | 166      | 127     | 48             | 22             | 14     | 19     | 94      | 51.1   | 18.8   | 18.8   | 13.5   | 55.6   |                 | 207-23      |             |               |
| NAP 208-24 | 1 1/2      |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | NA 208-24   |             |               |
| 208-25     | 1 5/16     |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | 208-25      | P 208       | 5.3           |
| 208        |            | 40 | 1 15/16**             | 7 1/8    | 5 7/16  | 2              | 7/8            | 9/16   | 1 3/16 | 4       | 2.2165 | 0.8425 | 0.8425 | 0.5315 | 2.3740 | 1/2             | 208         |             |               |
|            |            |    | 49.2                  | 181      | 137     | 51             | 22             | 14     | 21     | 102     | 56.3   | 21.4   | 21.4   | 13.5   | 60.3   |                 |             |             |               |
| NAP 209-26 | 1 5/8      |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | NA 209-26   |             |               |
| 209-27     | 1 11/16    |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | 209-27      | P 209       | 6.1           |
| 209-28     | 1 3/4      |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | 209-28      |             |               |
| 209        |            | 45 | 2 1/8                 | 7 1/2    | 5 3/4   | 2 1/8          | 1 3/16         | 1 9/32 | 7/8    | 4 17/64 | 2.2165 | 0.8425 | 0.8425 | 0.5315 | 2.5000 | 1/2             | 209         |             |               |
|            |            |    | 54.0                  | 190      | 146     | 54             | 21             | 15     | 22     | 109     | 56.3   | 21.4   | 21.4   | 13.5   | 63.5   |                 |             |             |               |
| NAP 210-30 | 1 7/8      |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | NA 210-30   |             |               |
| 210-31     | 1 15/16    |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | 210-31      | P 210       | 7.2           |
| 210        |            | 50 | 2 1/4                 | 8        | 6 1/4   | 2 1/4          | 1 5/16         | 23/32  | 1 5/16 | 4 33/64 | 2.4685 | 0.9685 | 0.9685 | 0.5315 | 2.7520 | 5/8             | 210         |             |               |
| 210-32     | 2S         |    | 57.2                  | 203      | 159     | 57             | 24             | 18     | 24     | 115     | 62.7   | 24.6   | 24.6   | 13.5   | 69.9   |                 | 210-32      |             |               |
| NAP 211-32 | 2          |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | NA 211-32   |             |               |
| 211-34     | 2 1/8      |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | 211-34      | P 211       | 9.4           |
| 211        |            | 55 | 2 1/2                 | 8 5/8    | 6 7/8   | 2 3/8          | 1 5/16         | 23/32  | 1 1/16 | 5 1/32  | 2.8110 | 1.0905 | 1.0905 | 0.6300 | 3.0000 | 5/8             | 211         |             |               |
| 211-35     | 2 3/16     |    | 63.5                  | 220      | 174     | 60             | 24             | 18     | 27     | 128     | 71.4   | 27.7   | 27.7   | 16.0   | 76.2   |                 | 211-35      |             |               |
| NAP 212-36 | 2 1/4      |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | NA 212-36   |             |               |
| 212        |            | 60 | 2 3/4                 | 9 17/32  | 7 11/32 | 2 1/2          | 1              | 25/32  | 1 1/16 | 5 33/64 | 3.0630 | 1.2165 | 1.2165 | 0.6300 | 3.3150 | 5/8             | 212         | P 212       | 11.9          |
| 212-38     | 2 3/8      |    | 69.8                  | 242      | 187     | 64             | 25.4           | 20     | 27     | 140     | 77.8   | 30.9   | 30.9   | 16.0   | 84.2   |                 | 212-38      |             |               |
| 212-39     | 2 7/16     |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | 212-39      |             |               |
| NAP 213-40 | 2 1/2      |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | NA 213-40   | P 213       | 14.0          |
| 213        |            | 65 | 3                     | 10 3/4   | 8 1/8   | 2 11/16        | 1 3/16         | 1 3/16 | 1 1/8  | 6 1/32  | 3.3740 | 1.3425 | 1.3425 | 0.6890 | 3.3858 | 7/8             | 213         |             |               |
|            |            |    | 76.2                  | 273      | 206     | 68             | 30             | 20     | 28     | 153     | 85.7   | 34.1   | 34.1   | 17.5   | 86.0   |                 |             |             |               |
| NAP 215-47 | 2 15/16    |    |                       |          |         |                |                |        |        |         |        |        |        |        |        |                 | NA 215-47   |             |               |
| 215        |            | 75 | 3 1/4                 | 10 13/16 | 8 1/2   | 2 15/16        | 1 1/4          | 1      | 1 1/8  | 6 33/64 | 3.6260 | 1.4685 | 1.4685 | 0.6890 | 4.0157 | 7/8             | 215         | P 215       | 18.3          |
| 215-48     | 3          |    | 82.6                  | 275      | 217     | 75             | 31             | 25.4   | 29     | 166     | 92.1   | 37.3   | 37.3   | 17.5   | 102.0  |                 | 215-48      |             |               |

Interchange Page 47 \*Also available 1 5/8" \*\*Also available 2 1/8"

# NAPA Tapped Base Pillow Blocks



## Standard duty with eccentric locking collar.

- Cast iron housing
- Wide inner race bearing

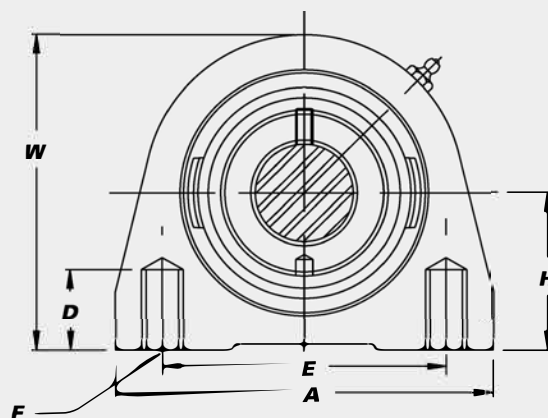
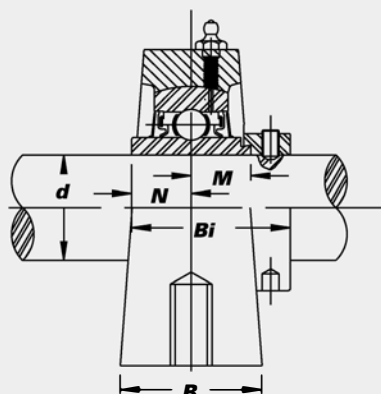
- B-type seals
- L3-type seals available in some sizes



B-type Seal



L3-type Seal



| Unit No.    | Shaft Dia. |    | Dimensions (in.) (mm) |       |       |       |         |                |                 |        |        |        | Bearing No. | Housing No. | Weight (lbs.) |
|-------------|------------|----|-----------------------|-------|-------|-------|---------|----------------|-----------------|--------|--------|--------|-------------|-------------|---------------|
|             | d          |    | H                     | A     | E     | B     | W       | F-Tapped Holes | D-Min Tap Depth | M      | N      | Bi     |             |             |               |
| NAPA 201-8  | 1/2        |    |                       |       |       |       |         |                |                 |        |        |        | NA 201-8    |             |               |
| 202-10      | 5/8        |    | 1 1/16                | 2 7/8 | 2     | 1 1/2 | 2 9/16  | 3/8"-16        | 1/2             | 0.6693 | 0.6693 | 1.7126 | 202-10      | PA 204      | 1.6           |
| 204-12      | 3/4        | 20 | 33.3                  | 73    | 50.8  | 38    | 65      | UNC            | 13              | 17.0   | 17.0   | 43.5   | 204-12      |             |               |
| 204         |            |    |                       |       |       |       |         |                |                 |        |        |        | 204         |             |               |
| NAPA 205-14 | 7/8        |    |                       |       |       |       |         |                |                 |        |        |        | NA 205-14   |             |               |
| 205-15      | 1 1/16     | 25 | 1 7/16                | 3     | 2     | 1 1/2 | 2 13/16 | 3/8"-16        | 1/2             | 0.6850 | 0.6850 | 1.7441 | 205-15      | PA 205      | 1.7           |
| 205         |            |    | 36.5                  | 76    | 50.8  | 38    | 71      | UNC            | 13              | 17.4   | 17.4   | 44.3   | 205         |             |               |
| 205-16      | 1          |    |                       |       |       |       |         |                |                 |        |        |        | 205-16      |             |               |
| NAPA 206-17 | 1 1/16     |    |                       |       |       |       |         |                |                 |        |        |        | NA 206-17   |             |               |
| 206-18      | 1 1/8      | 30 | 1 11/16               | 4     | 3     | 1 1/2 | 3 3/8   | 7/16"-14       | 5/8             | 0.7165 | 0.7165 | 1.9016 | 206-18      | PA 206      | 2.8           |
| 206         |            |    | 42.9                  | 102   | 76.2  | 38    | 86      | UNC            | 16              | 18.2   | 18.2   | 48.3   | 206         |             |               |
| 206-19      | 1 3/16     |    |                       |       |       |       |         |                |                 |        |        |        | 206-19      |             |               |
| 206-20      | 1 1/4      |    |                       |       |       |       |         |                |                 |        |        |        | 206-20      |             |               |
| NAPA 207-20 | 1 1/4      |    |                       |       |       |       |         |                |                 |        |        |        | NA 207-20   |             |               |
| 207-21      | 1 5/16     | 35 | 1 7/8                 | 4 1/4 | 3 1/4 | 1 7/8 | 3 3/4   | 1/2"-13        | 3/4             | 0.7402 | 0.7402 | 2.0118 | 207-21      | PA 207      | 3.9           |
| 207-22      | 1 3/8      |    | 47.6                  | 108   | 82.6  | 48    | 95      | UNC            | 19              | 18.8   | 18.8   | 51.1   | 207-22      |             |               |
| 207         |            |    |                       |       |       |       |         |                |                 |        |        |        | 207         |             |               |
| 207-23      | 1 7/16     |    |                       |       |       |       |         |                |                 |        |        |        | 207-23      |             |               |
| NAPA 208-24 | 1 1/2      |    |                       |       |       |       |         |                |                 |        |        |        | NA 208-24   |             |               |
| 208-25      | 1 9/16     | 40 | 1 15/16               | 4 5/8 | 3 1/2 | 1 7/8 | 3 15/16 | 1/2"-13        | 3/4             | 0.8425 | 0.8425 | 2.2165 | 208-25      | PA 208      | 4.4           |
| 208         |            |    | 49.2                  | 117   | 88.9  | 48    | 100     | UNC            | 19              | 21.4   | 21.4   | 56.3   | 208         |             |               |
| NAPA 209-26 | 1 5/8      |    |                       |       |       |       |         |                |                 |        |        |        | NA 209-26   |             |               |
| 209-27      | 1 11/16    | 45 | 2 1/8                 | 5     | 3 3/4 | 2     | 4 1/4   | 1/2"-13        | 3/4             | 0.8425 | 0.8425 | 2.2165 | 209-27      | PA 209      | 5.4           |
| 209-28      | 1 3/4      |    | 54.0                  | 127   | 95.3  | 51    | 108     | UNC            | 19              | 21.4   | 21.4   | 56.3   | 209-28      |             |               |
| 209         |            |    |                       |       |       |       |         |                |                 |        |        |        | 209         |             |               |
| NAPA 210-30 | 1 7/8      |    |                       |       |       |       |         |                |                 |        |        |        | NA 210-30   |             |               |
| 210-31      | 1 15/16    | 50 | 2 1/4                 | 5 1/2 | 4     | 2     | 4 5/8   | 5/8"-11        | 7/8             | 0.9685 | 0.9685 | 2.4685 | 210-31      | PA 210      | 6.3           |
| 210         |            |    | 57.2                  | 140   | 101.6 | 51    | 117     | UNC            | 22              | 24.6   | 24.6   | 62.7   | 210         |             |               |
| 210-32      | 2S         |    |                       |       |       |       |         |                |                 |        |        |        | 210-32      |             |               |

Interchange Page 47

# UCPA Tapped Base Pillow Blocks



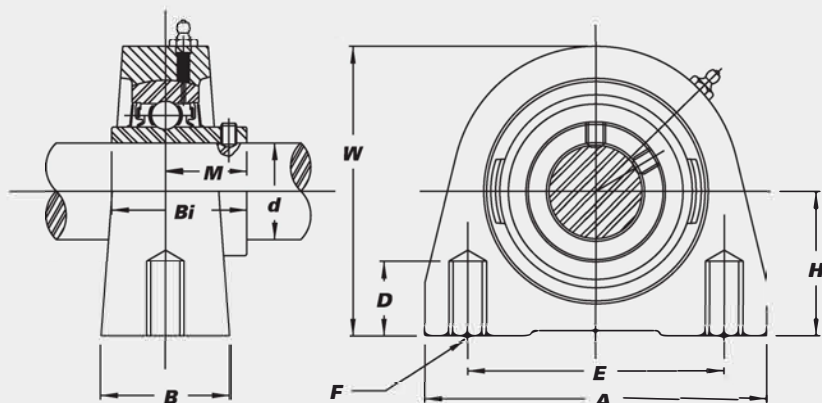
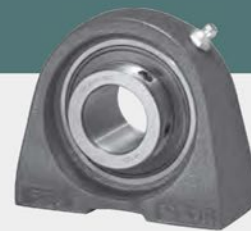
B-type Seal



L3-type Seal

## Standard duty with set screw lock.

- Cast iron housing
- Wide inner race bearing
- B-type seals
- L3-type seals available in some sizes



| Unit No.    | Shaft Dia. |    | Dimensions (in.) (mm) |       |       |       |         |                |                 |        |        | Bearing No. | Housing No. | Weight (lbs.) |
|-------------|------------|----|-----------------------|-------|-------|-------|---------|----------------|-----------------|--------|--------|-------------|-------------|---------------|
|             | d          |    | H                     | A     | E     | B     | W       | F-Tapped Holes | D-Min Tap Depth | M      | Bi     |             |             |               |
| UCPA 201-8  | 1/2        |    |                       |       |       |       |         |                |                 |        |        | UC 201-8    |             |               |
| 202-10      | 5/8        |    |                       |       |       |       |         |                |                 |        |        | 202-10      |             |               |
| 203         |            | 17 | 15/16                 | 27/8  | 2     | 1 1/2 | 2 9/16  | 3/8"-16 UNC    | 1/2             | 0.7205 | 1.2205 |             | PA 204      | 1.4           |
| 204-12      | 3/4        |    | 33.3                  | 73    | 50.8  | 38    | 65      |                | 13              | 18.3   | 31.0   |             |             |               |
| 204         |            | 20 |                       |       |       |       |         |                |                 |        |        | 204-12      |             |               |
| 204         |            |    |                       |       |       |       |         |                |                 |        |        | 204         |             |               |
| UCPA 205-14 | 7/8        |    |                       |       |       |       |         |                |                 |        |        | UC 205-14   |             |               |
| 205-15      | 1 1/16     |    |                       |       |       |       |         |                |                 |        |        | 205-15      |             |               |
| 205         |            | 25 | 1 7/16                | 3     | 2     | 1 1/2 | 2 13/16 | 3/8"-16 UNC    | 1/2             | 0.7756 | 1.3386 |             | PA 205      | 1.6           |
| 205-16      | 1          |    | 36.5                  | 76    | 50.8  | 38    | 71      |                | 13              | 19.7   | 34.0   |             |             |               |
| 205-16      |            |    |                       |       |       |       |         |                |                 |        |        | 205-16      |             |               |
| UCPA 206-17 | 1 1/16     |    |                       |       |       |       |         |                |                 |        |        | UC 206-17   |             |               |
| 206-18      | 1 1/8      |    |                       |       |       |       |         |                |                 |        |        | 206-18      |             |               |
| 206         |            | 30 | 1 11/16               | 4     | 3     | 1 1/2 | 3 3/8   | 7/16"-14 UNC   | 5/8             | 0.8740 | 1.5000 |             | PA 206      | 2.6           |
| 206-19      | 1 3/16     |    | 42.9                  | 102   | 76.2  | 38    | 86      |                | 16              | 22.2   | 38.1   |             |             |               |
| 206-20      | 1 1/4      |    |                       |       |       |       |         |                |                 |        |        | 206-19      |             |               |
| 206-20      |            |    |                       |       |       |       |         |                |                 |        |        | 206-20      |             |               |
| UCPA 207-20 | 1 1/4      |    |                       |       |       |       |         |                |                 |        |        | UC 207-20   |             |               |
| 207-21      | 1 5/16     |    |                       |       |       |       |         |                |                 |        |        | 207-21      |             |               |
| 207-22      | 1 3/8      |    |                       |       |       |       |         |                |                 |        |        | 207-22      |             |               |
| 207         |            | 35 | 1 7/8                 | 4 1/4 | 3 1/4 | 1 7/8 | 3 3/4   | 1/2"-13 UNC    | 3/4             | 1.0000 | 1.6890 |             | PA 207      | 3.6           |
| 207-23      | 1 7/16     |    | 47.6                  | 108   | 82.6  | 48    | 95      |                | 19              | 25.4   | 42.9   |             |             |               |
| 207-23      |            |    |                       |       |       |       |         |                |                 |        |        | 207-23      |             |               |
| UCPA 208-24 | 1 1/2      |    |                       |       |       |       |         |                |                 |        |        | UC 208-24   |             |               |
| 208-25      | 1 9/16     |    |                       |       |       |       |         |                |                 |        |        | 208-25      |             |               |
| 208         |            | 40 | 1 15/16               | 4 5/8 | 3 1/2 | 1 7/8 | 3 15/16 | 1/2"-13 UNC    | 3/4             | 1.1890 | 1.9370 |             | PA 208      | 4.0           |
| 208         |            |    | 49.2                  | 117   | 88.9  | 48    | 100     |                | 19              | 30.2   | 49.2   |             |             |               |
| UCPA 209-26 | 1 5/8      |    |                       |       |       |       |         |                |                 |        |        | UC 209-26   |             |               |
| 209-27      | 1 11/16    |    |                       |       |       |       |         |                |                 |        |        | 209-27      |             |               |
| 209-28      | 1 3/4      |    |                       |       |       |       |         |                |                 |        |        | 209-28      |             |               |
| 209         |            | 45 | 2 1/8                 | 5     | 3 3/4 | 2     | 4 1/4   | 1/2"-13 UNC    | 3/4             | 1.1890 | 1.9370 |             | PA 209      | 5.0           |
| 209         |            |    | 54.0                  | 127   | 95.3  | 51    | 108     |                | 19              | 30.2   | 49.2   |             |             |               |
| UCPA 210-30 | 1 7/8      |    |                       |       |       |       |         |                |                 |        |        | UC 210-30   |             |               |
| 210-31      | 1 15/16    |    |                       |       |       |       |         |                |                 |        |        | 210-31      |             |               |
| 210         |            | 50 | 2 1/4                 | 5 1/2 | 4     | 2     | 4 5/8   | 5/8"-11 UNC    | 7/8             | 1.2835 | 2.0315 |             | PA 210      | 5.9           |
| 210-32      | 2S         |    | 57.2                  | 140   | 101.6 | 51    | 117     |                | 22              | 32.6   | 51.6   |             |             |               |
| 210-32      |            |    |                       |       |       |       |         |                |                 |        |        | 210-32      |             |               |

Interchange Page 47

# UCF 4-Bolt Flange Units



## Standard duty with set screw lock.

- Cast iron housing
- Wide inner race bearing

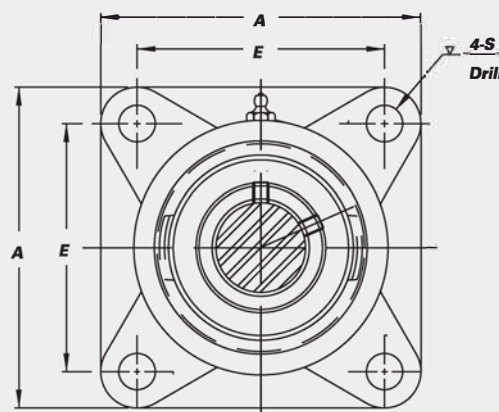
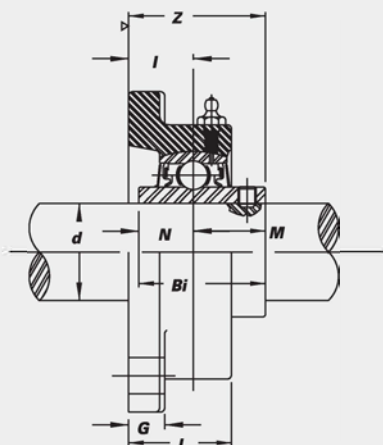
- B-type or L3 type seals
- Available with high temp. bearing - See page 46



B-type Seal



L3-type Seal



| Unit No.   | Shaft Dia. |        | Dimensions (in.) (mm) |         |         |        |         |        |         |        |        |        | Bolt Used (in.) | Bearing No. | Housing No. | Weight (lbs.) |
|------------|------------|--------|-----------------------|---------|---------|--------|---------|--------|---------|--------|--------|--------|-----------------|-------------|-------------|---------------|
|            | d (in.)    | d (mm) | A                     | E       | I       | G      | L       | S      | Z       | Bi     | N      | M      |                 |             |             |               |
| UCF 201    |            | 12     |                       |         |         |        |         |        |         |        |        |        |                 | UCV 201     |             |               |
| 201-8      | 1/2        |        |                       |         |         |        |         |        |         |        |        |        | 3/8             | 201-8       |             |               |
| 202        | 5/8        | 15     | 3                     | 2 1/8   | 2 1/32  | 3/8    | 1 3/32  | 7/16   | 1 9/32  | 1.0236 | 0.3937 | 0.6299 |                 | 202         | F 203       | 1.2           |
| 202-10     |            |        | 76                    | 54      | 16.7    | 10     | 28      | 11     | 32.7    | 26.0   | 10.0   | 16.0   |                 | 202-10      |             |               |
| 203        |            | 17     |                       |         |         |        |         |        |         |        |        |        |                 | 203         |             |               |
| UCF 204-12 | 3/4        | 20     | 3 3/8                 | 2 1/2   | 1 9/32  | 7/16   | 1       | 7/16   | 1 5/16  | 1.2205 | 0.5000 | 0.7205 | 3/8             | UC 204-12   | F 204       | 1.4           |
| 204        |            |        | 86                    | 64      | 15      | 11     | 25.4    | 11     | 33.3    | 31.0   | 12.7   | 18.3   |                 | 204         |             |               |
| UCF 205-14 | 7/8        | 25     | 3 3/4                 | 2 3/4   | 5/8     | 1/2    | 1 1/16  | 2 9/64 | 1 13/32 | 1.3386 | 0.5630 | 0.7756 | 3/8             | UC 205-14   | F 205       | 1.9           |
| 205-15     | 1 5/16     |        |                       |         |         |        |         |        |         |        |        |        |                 | 205-15      |             |               |
| 205        |            |        | 95                    | 70      | 16      | 13     | 27      | 11.5   | 35.7    | 34.0   | 14.3   | 19.7   |                 | 205         |             |               |
| 205-16     | 1          |        |                       |         |         |        |         |        |         |        |        |        |                 | 205-16      |             |               |
| UCF 206-17 | 1 1/16     | 30     | 4 1/4                 | 3 1/4   | 4 5/64  | 1/2    | 1 1/32  | 3 9/64 | 1 19/32 | 1.5000 | 0.6260 | 0.8740 | 7/16            | UC 206-17   | F 206       | 2.4           |
| 206-18     | 1 1/8      |        |                       |         |         |        |         |        |         |        |        |        |                 | 206-18      |             |               |
| 206        |            |        | 108                   | 83      | 18      | 13     | 31      | 13     | 40.2    | 38.1   | 15.9   | 22.2   |                 | 206         |             |               |
| 206-19     | 1 3/16     |        |                       |         |         |        |         |        |         |        |        |        |                 | 206-19      |             |               |
| 206-20     | 1 1/4 S    |        |                       |         |         |        |         |        |         |        |        |        |                 | 206-20      |             |               |
| UCF 207-20 | 1 1/4      | 35     | 4 19/32               | 3 5/8   | 3/4     | 1 9/32 | 1 11/32 | 3 9/64 | 1 3/4   | 1.6890 | 0.6890 | 1.0000 | 7/16            | UC 207-20   | F 207       | 3.3           |
| 207-21     | 1 5/16     |        |                       |         |         |        |         |        |         |        |        |        |                 | 207-21      |             |               |
| 207-22     | 1 3/8      |        | 117                   | 92      | 19      | 15     | 34      | 13     | 44.4    | 42.9   | 17.5   | 25.4   |                 | 207-22      |             |               |
| 207        |            |        |                       |         |         |        |         |        |         |        |        |        |                 | 207         |             |               |
| 207-23     | 1 7/16     |        |                       |         |         |        |         |        |         |        |        |        |                 | 207-23      |             |               |
| UCF 208-24 | 1 1/2      | 40     | 5 1/8                 | 4       | 5 3/64  | 1 9/32 | 1 13/32 | 3 9/64 | 2 1/32  | 1.9370 | 0.7480 | 1.1890 | 1/2             | UC 208-24   | F 208       | 4.2           |
| 208-25     | 1 9/16     |        |                       |         |         |        |         |        |         |        |        |        |                 | 208-25      |             |               |
| 208        |            |        | 130                   | 102     | 21      | 15     | 36      | 14     | 51.2    | 49.2   | 19.0   | 30.2   |                 | 208         |             |               |
| UCF 209-26 | 1 5/8      | 45     | 5 13/32               | 4 1/8   | 5 5/64  | 5/8    | 1 1/2   | 5/8    | 2 1/16  | 1.9370 | 0.7480 | 1.1890 | 9/16            | UC 209-26   | F 209       | 5.2           |
| 209-27     | 1 11/16    |        |                       |         |         |        |         |        |         |        |        |        |                 | 209-27      |             |               |
| 209-28     | 1 3/4      |        | 137                   | 105     | 22      | 16     | 38      | 16     | 52.2    | 49.2   | 19.0   | 30.2   |                 | 209-28      |             |               |
| 209        |            |        |                       |         |         |        |         |        |         |        |        |        |                 | 209         |             |               |
| UCF 210-30 | 1 7/8      | 50     | 5 5/8                 | 4 3/8   | 5 5/64  | 5/8    | 1 9/16  | 5/8    | 2 5/32  | 2.0315 | 0.7480 | 1.2835 | 9/16            | UC 210-30   | F 210       | 5.6           |
| 210-31     | 1 15/16    |        |                       |         |         |        |         |        |         |        |        |        |                 | 210-31      |             |               |
| 210        |            |        | 143                   | 111     | 22      | 16     | 40      | 16     | 54.6    | 51.6   | 19.0   | 32.6   |                 | 210         |             |               |
| 210-32     | 2 S        |        |                       |         |         |        |         |        |         |        |        |        |                 | 210-32      |             |               |
| UCF 211-32 | 2          | 55     | 6 1/2                 | 5 1/8   | 6 3/64  | 2 3/32 | 1 11/16 | 4 9/64 | 2 5/16  | 2.1890 | 0.8740 | 1.3150 | 5/8             | UC 211-32   | F 211       | 7.7           |
| 211-34     | 2 1/8      |        |                       |         |         |        |         |        |         |        |        |        |                 | 211-34      |             |               |
| 211        |            |        | 165                   | 130     | 25      | 18     | 43      | 17     | 58.4    | 55.6   | 22.2   | 33.4   |                 | 211         |             |               |
| 211-35     | 2 9/16     |        |                       |         |         |        |         |        |         |        |        |        |                 | 211-35      |             |               |
| UCF 212-36 | 2 1/4      | 60     | 6 7/8                 | 5 5/8   | 1 9/64  | 2 3/32 | 1 7/8   | 4 3/64 | 2 23/32 | 2.5630 | 1.0000 | 1.5630 | 5/8             | UC 212-36   | F 212       | 9.4           |
| 212        |            |        |                       |         |         |        |         |        |         |        |        |        |                 | 212         |             |               |
| 212-38     | 2 3/8      |        | 175                   | 143     | 29      | 18     | 48      | 17     | 68.7    | 65.1   | 25.4   | 39.7   |                 | 212-38      |             |               |
| 212-39     | 2 7/16     |        |                       |         |         |        |         |        |         |        |        |        |                 | 212-39      |             |               |
| UCF 213-40 | 2 1/2      | 65     | 7 3/8                 | 5 7/8   | 1 3/16  | 7/8    | 1 31/32 | 4 3/64 | 2 3/4   | 2.5630 | 1.0000 | 1.5630 | 5/8             | UC 213-40   | F 213       | 12.9          |
| 213        |            |        |                       |         |         |        |         |        |         |        |        |        |                 | 213         |             |               |
| 213        |            |        | 187                   | 149     | 30      | 22     | 50      | 17     | 69.7    | 65.1   | 25.4   | 39.7   |                 | 213         |             |               |
| UCF 214-43 | 2 11/16    | 70     | 7 19/32               | 5 63/64 | 1 7/32  | 2 3/32 | 2 1/8   | 3/4    | 2 31/32 | 2.9370 | 1.1890 | 1.7480 | 1 1/16          | UC 214-43   | F 214       | 13.9          |
| 214-44     | 2 3/4      |        |                       |         |         |        |         |        |         |        |        |        |                 | 214-44      |             |               |
| 214        |            |        | 193                   | 152     | 31      | 23     | 54      | 19     | 75.4    | 74.6   | 30.2   | 44.4   |                 | 214         |             |               |
| UCF 215-47 | 2 15/16    | 75     | 7 7/8                 | 6 1/4   | 1 11/32 | 7/8    | 2 7/32  | 3/4    | 3 3/32  | 3.0630 | 1.3110 | 1.7520 | 1 1/16          | UC 215-47   | F 215       | 17.0          |
| 215        |            |        |                       |         |         |        |         |        |         |        |        |        |                 | 215         |             |               |
| 215-48     | 3          |        | 200                   | 159     | 34      | 22     | 56      | 19     | 78.5    | 77.8   | 33.3   | 44.5   |                 | 215-48      |             |               |

\*Also available as 6", where Z = 3 3/8" — specify UCNF. Interchange Page 47



# NANF 4-Bolt Flange Units



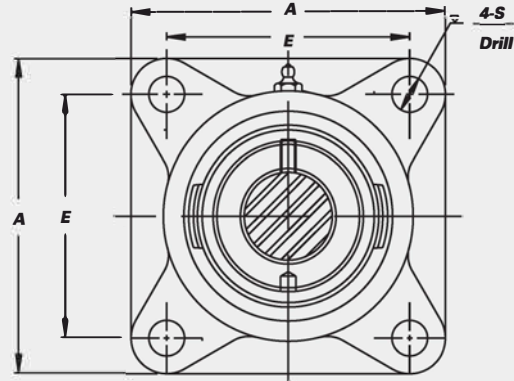
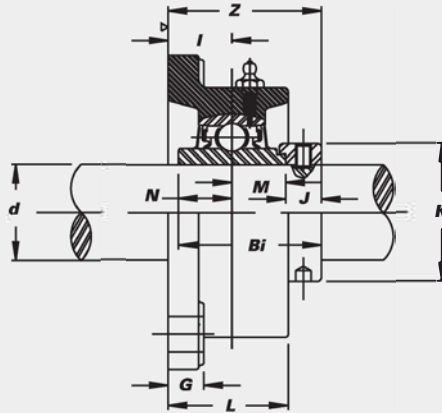
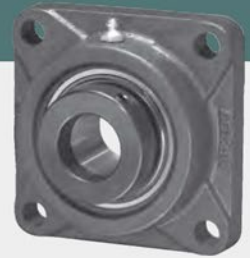
B-type Seal



L3-type Seal

## Standard duty with eccentric locking collar.

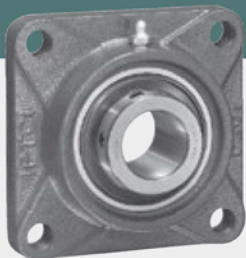
- Cast iron housing
- B-type or L3-type seals
- Wide inner race bearing



| Unit No.    | Shaft Dia. |    | Dimensions (in.) (mm) |       |         |        |         |       |         |        |        |        |        |        | Bolt Used (in.) | Bearing No. | Housing No. | Weight (lbs.) |
|-------------|------------|----|-----------------------|-------|---------|--------|---------|-------|---------|--------|--------|--------|--------|--------|-----------------|-------------|-------------|---------------|
|             | d          |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 |             |             |               |
|             | (in.) (mm) | A  | E                     | I     | G       | L      | S       | Z     | Bi      | N      | M      | J      | K      |        |                 |             |             |               |
| NANF 201    |            | 12 |                       |       |         |        |         |       |         |        |        |        |        |        |                 | NAW201      |             |               |
| 201-8       | 1/2        |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 |             |             |               |
| 202         |            | 15 | 3                     | 2 1/8 | 2 1/32  | 3/8    | 1 3/32  | 7/16  | 1 37/64 | 1.4685 | 0.5472 | 0.5472 | 0.3740 | 1.1260 | 3/8             |             | F 203       | 1.3           |
| 202-10      | 5/8        |    | 76                    | 54    | 16.7    | 10     | 28      | 11    | 40.1    | 37.3   | 13.9   | 13.9   | 9.5    | 28.6   |                 |             |             |               |
| 203         |            | 17 |                       |       |         |        |         |       |         |        |        |        |        |        |                 |             |             |               |
| NANF 204-12 | 3/4        |    | 3 3/8                 | 2 1/2 | 3/4     | 19/32  | 1 5/32  | 7/16  | 1 25/32 | 1.7126 | 0.6693 | 0.6693 | 0.3740 | 1.3110 | 3/8             | NA 204-12   | NF 204      | 1.8           |
| 204         |            | 20 | 86                    | 64    | 19      | 15     | 29.5    | 11    | 45.5    | 43.5   | 17.0   | 17.0   | 9.5    | 33.3   |                 | 204         |             |               |
| NANF 205-14 | 7/8        |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | NA 205-14   |             |               |
| 205-15      | 1 5/16     |    | 3 3/4                 | 2 3/4 | 25/32   | 19/32  | 1 7/32  | 29/64 | 1 27/32 | 1.7441 | 0.6850 | 0.6850 | 0.3740 | 1.5000 | 3/8             | 205-15      | NF 205      | 2.1           |
| 205         |            | 25 | 95                    | 70    | 20      | 15     | 31      | 11.5  | 46.9    | 44.3   | 17.4   | 17.4   | 9.5    | 38.1   |                 | 205         |             |               |
| 205-16      | 1          |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | 205-16      |             |               |
| NANF 206-17 | 1 1/8      |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | NA 206-17   |             |               |
| 206-18      | 1 1/8      |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | 206-18      |             |               |
| 206         |            | 30 | 4 1/4                 | 3 1/4 | 53/64   | 5/8    | 1 31/32 | 33/64 | 2       | 1.9016 | 0.7165 | 0.7165 | 0.4685 | 1.7520 | 7/16            | 206         | NF 206      | 2.9           |
| 206-19      | 1 3/8      |    | 108                   | 83    | 21      | 16     | 34      | 13    | 51.1    | 48.3   | 18.2   | 18.2   | 11.9   | 44.5   |                 | 206-19      |             |               |
| 206-20      | 1 1/4 S    |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | 206-20      |             |               |
| NANF 207-20 | 1 1/4      |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | NA 207-20   |             |               |
| 207-21      | 1 5/8      |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | 207-21      |             |               |
| 207-22      | 1 3/8      |    | 4 19/32               | 3 5/8 | 27/32   | 2 1/32 | 1 7/16  | 33/64 | 2 1/8   | 2.0118 | 0.7402 | 0.7402 | 0.5315 | 2.1890 | 7/16            | 207-22      | NF 207      | 3.9           |
| 207         |            | 35 | 117                   | 92    | 21.5    | 17     | 36.5    | 13    | 53.8    | 51.1   | 18.8   | 18.8   | 13.5   | 55.6   |                 | 207         |             |               |
| 207-23      | 1 7/16     |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | 207-23      |             |               |
| NANF 208-24 | 1 1/2      |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | NA 208-24   |             |               |
| 208-25      | 1 3/8      |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | 208-25      |             |               |
| 208         |            | 40 | 5 1/8                 | 4     | 15/16   | 2 1/32 | 1 17/32 | 35/64 | 2 5/16  | 2.2165 | 0.8425 | 0.8425 | 0.5315 | 2.3740 | 1/2             | 208         | NF 208      | 4.9           |
| NANF 209-26 | 1 5/8      |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | NA 209-26   |             |               |
| 209-27      | 1 11/16    |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | 209-27      |             |               |
| 209-28      | 1 3/4      |    | 5 13/32               | 4 1/8 | 15/16   | 23/32  | 1 9/16  | 5/8   | 2 9/16  | 2.2165 | 0.8425 | 0.8425 | 0.5315 | 2.5000 | 9/16            | 209-28      | NF 209      | 5.7           |
| 209         |            | 45 | 137                   | 105   | 24      | 18     | 40      | 16    | 58.9    | 56.3   | 21.4   | 21.4   | 13.5   | 63.5   |                 | 209         |             |               |
| NANF 210-30 | 1 7/8      |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | NA 210-30   |             |               |
| 210-31      | 1 5/8      |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | 210-31      |             |               |
| 210         |            | 50 | 5 5/8                 | 4 3/8 | 1 1/8   | 25/32  | 1 27/32 | 5/8   | 2 5/8   | 2.4685 | 0.9685 | 0.9685 | 0.5315 | 2.7520 | 9/16            | 210         | NF 210      | 6.5           |
| 210-32      | 2 S        |    | 143                   | 111   | 28.5    | 20     | 46.5    | 16    | 66.6    | 62.7   | 24.6   | 24.6   | 13.5   | 69.9   |                 | 210-32      |             |               |
| NANF 211-32 | 2          |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | NA 211-32   |             |               |
| 211-34      | 2 1/8      |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | 211-34      |             |               |
| 211         |            | 55 | 6 3/8                 | 5 1/8 | 1 17/64 | 13/16  | 1 31/32 | 43/64 | 2 1/32  | 2.8110 | 1.0906 | 1.0906 | 0.6299 | 3.0000 | 5/8             | 211         | NF 211      | 9.0           |
| 211-35      | 2 3/8      |    | 162                   | 130   | 32      | 21     | 50      | 17    | 75.7    | 71.4   | 27.7   | 27.7   | 16.0   | 76.2   |                 | 211-35      |             |               |
| NANF 212-36 | 2 1/4      |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | NA 212-36   |             |               |
| 212         |            | 60 | 6 7/8                 | 5 5/8 | 1 27/64 | 13/16  | 2 5/32  | 43/64 | 3 1/4   | 3.0630 | 1.2165 | 1.2165 | 0.6299 | 3.3150 | 5/8             | 212         | NF 212      | 10.8          |
| 212-38      | 2 3/8      |    | 175                   | 143   | 36      | 21     | 55      | 17    | 82.9    | 77.8   | 30.9   | 30.9   | 16.0   | 84.2   |                 | 212-38      |             |               |
| 212-39      | 2 7/8      |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | 212-39      |             |               |
| NANF 213-40 | 2 1/2      |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | NA 213-40   |             |               |
| 213         |            | 65 | 7 3/8                 | 5 7/8 | 1 1/2   | 7/8    | 2 5/16  | 25/32 | 3 17/32 | 3.3740 | 1.3425 | 1.3425 | 0.6890 | 3.3858 | 3/4             | 213         | NF 213      | 13.2          |
| NANF 215-47 | 2 15/16    |    |                       |       |         |        |         |       |         |        |        |        |        |        |                 | NA 215-47   |             |               |
| 215         |            | 75 | 7 3/4                 | 6     | 1 5/8   | 7/8    | 2 27/64 | 25/32 | 3 25/32 | 3.6260 | 1.4685 | 1.4685 | 0.6890 | 4.0157 | 3/4             | 215         | NF 215      | 16.0          |
| 215-48      | 3          |    | 197                   | 152   | 42      | 22     | 61      | 20    | 96      | 92.0   | 37.3   | 37.3   | 17.5   | 102.0  |                 | 215-48      |             |               |

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# UCFX 4-Bolt Flange Units



## Medium duty with set screw lock.

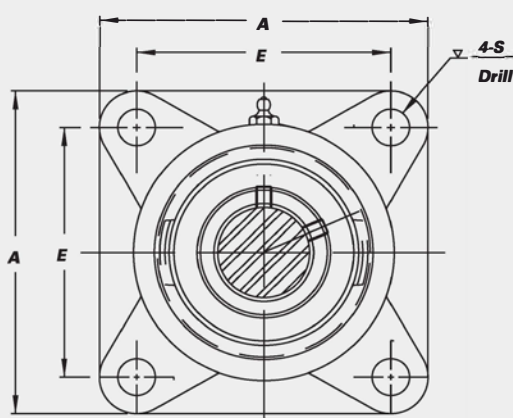
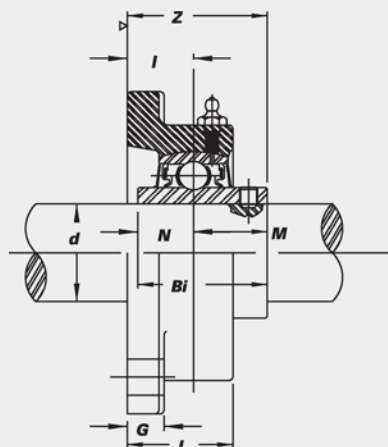
- Wide inner race bearing with greater load carrying capacity than standard duty
- Cast iron housing
- B-type seals
- L3-type seals available in some sizes



B-type Seal



L3-type Seal



| Unit No.                              | Shaft Dia.<br><i>d</i>                               |      | Dimensions (in.)<br>(mm) |               |               |              |               |              |                 |                 |                |                | Bolt Used | Bearing No.                          | Housing No. | Weight (lbs.) |
|---------------------------------------|------------------------------------------------------|------|--------------------------|---------------|---------------|--------------|---------------|--------------|-----------------|-----------------|----------------|----------------|-----------|--------------------------------------|-------------|---------------|
|                                       | (in.)                                                | (mm) | A                        | E             | I             | G            | L             | S            | Z               | Bi              | N              | M              |           |                                      |             |               |
| UCF X05-14<br>X05-15<br>X05-16        | $\frac{7}{8}$<br>$\frac{15}{16}$<br>1                | 25   | 4 1/4<br>108             | 3 1/4<br>83   | 45/64<br>18   | 1/2<br>13    | 17/32<br>31   | 33/64<br>13  | 1 19/32<br>40.2 | 1.5000<br>38.1  | 0.6260<br>15.9 | 0.8740<br>22.2 | 7/16      | UC X05-14<br>X05-15<br>X05-16        | F 206       | 2.6           |
| UCF X06-18<br>X06-19<br>X06-20        | $\frac{1}{8}$<br>$\frac{13}{16}$<br>$\frac{1}{4}$    | 30   | 4 19/32<br>117           | 3 5/8<br>92   | 3/4<br>19     | 19/32<br>15  | 1 11/32<br>34 | 33/64<br>13  | 1 3/4<br>44.4   | 1.6890<br>42.9  | 0.6890<br>17.5 | 1.0000<br>25.4 | 7/16      | UC X06-18<br>X06-19<br>X06-20        | F 207       | 3.5           |
| UCF X07-22<br>X07-23                  | $\frac{1}{8}$<br>$\frac{17}{16}$                     | 35   | 5 1/8<br>130             | 4<br>102      | 53/64<br>21   | 19/32<br>15  | 1 13/32<br>36 | 35/64<br>14  | 2 1/32<br>51.2  | 1.9370<br>49.2  | 0.7480<br>19.0 | 1.1890<br>30.2 | 1/2       | UC X07-22<br>X07-23                  | F 208       | 4.4           |
| UCF X08-24<br>X08                     | $\frac{1}{2}$                                        | 40   | 5 13/32<br>137           | 4 1/8<br>105  | 55/64<br>22   | 5/8<br>16    | 1 1/2<br>38   | 5/8<br>16    | 2 1/16<br>52.2  | 1.9370<br>49.2  | 0.7480<br>19.0 | 1.1890<br>30.2 | 9/16      | UC X08-24<br>X08                     | F 209       | 5.3           |
| UCF X09-26<br>X09-27<br>X09-28<br>X09 | $\frac{15}{16}$<br>$\frac{11}{16}$<br>$\frac{3}{4}$  | 45   | 5 5/8<br>143             | 4 3/8<br>111  | 55/64<br>22   | 5/8<br>16    | 1 9/16<br>40  | 5/8<br>16    | 2 5/32<br>54.6  | 2.0315<br>51.6  | 0.7480<br>19.0 | 1.2835<br>32.6 | 9/16      | UC X09-26<br>X09-27<br>X09-28<br>X09 | F 210       | 6.2           |
| UCF X10-30<br>X10-31<br>X10-32        | $\frac{17}{8}$<br>$\frac{15}{16}$<br>2               | 50   | 6 1/2<br>165             | 5 1/8<br>130  | 63/64<br>25   | 23/32<br>18  | 1 11/16<br>43 | 43/64<br>17  | 2 5/16<br>58.4  | 2.1890<br>55.6  | 0.8740<br>22.2 | 1.3150<br>33.4 | 5/8       | UC X10-30<br>X10-31<br>X10-32        | F 211       | 8.4           |
| UCF X11-34<br>X11-35<br>X11-36        | $\frac{21}{8}$<br>$\frac{23}{16}$<br>$\frac{1}{4}$   | 55   | 6 7/8<br>175             | 5 5/8<br>143  | 19/64<br>29   | 23/32<br>18  | 1 7/8<br>48   | 43/64<br>17  | 2 23/32<br>68.7 | 2.5630<br>65.1  | 1.0000<br>25.4 | 1.5630<br>39.7 | 5/8       | UC X11-34<br>X11-35<br>X11-36        | F 212       | 10.8          |
| UCF X12<br>X12-38<br>X12-39           | $\frac{23}{8}$<br>$\frac{23}{16}$<br>$\frac{21}{16}$ | 60   | 7 3/8<br>187             | 5 7/8<br>149  | 13/16<br>30   | 7/8<br>22    | 1 31/32<br>50 | 43/64<br>17  | 2 29/32<br>73.8 | 2.5630<br>65.1  | 1.0000<br>25.4 | 1.5630<br>39.7 | 5/8       | UC X12<br>X12-38<br>X12-39           | F 213       | 12.6          |
| UCF X13-40<br>X13                     | $\frac{21}{2}$                                       | 65   | 7 3/8<br>187             | 5 7/8<br>149  | 1 11/32<br>34 | 13/16<br>21  | 2 5/16<br>59  | 2 1/32<br>17 | 3 3/32<br>78.5  | 2.9370<br>74.6  | 1.1890<br>30.2 | 1.7480<br>44.4 | 9/16      | UC X13-40<br>X13                     | FX13        | 14.1          |
| UCF X14-43<br>X14-44<br>X14           | $\frac{211}{16}$<br>$\frac{23}{4}$                   | 70   | 7 3/4<br>197             | 6<br>152      | 1 5/8<br>42   | 7/8<br>22    | 2 27/64<br>61 | 2 5/32<br>20 | 3 13/32<br>86.5 | 3.0630<br>77.8  | 1.3110<br>33.3 | 1.7520<br>44.5 | 1 1/16    | UC X14-43<br>X14-44<br>X14           | NF215       | 15.6          |
| UCF X15-47<br>X15-48                  | $\frac{215}{16}$<br>3                                | 75   | 7 3/4<br>197             | 6<br>152      | 1 37/64<br>40 | 1 5/16<br>24 | 2 11/16<br>68 | 2 5/32<br>20 | 3 17/32<br>89.7 | 3.2520<br>82.6  | 1.3110<br>33.3 | 1.9410<br>49.3 | 1 1/16    | UC X15-47<br>X15-48                  | FX15        | 18.5          |
| UCF X17<br>X17-55<br>X17-56           | $\frac{37}{16}$<br>$\frac{3}{2}$                     | 85   | 8 7/16<br>214            | 6 3/4<br>171  | 1 37/64<br>40 | 1 5/16<br>24 | 2 3/4<br>70   | 2 5/32<br>20 | 3 25/32<br>96.0 | 3.7795<br>96.0  | 1.5630<br>39.7 | 2.2165<br>56.3 | 1 1/16    | UC X17<br>X17-55<br>X17-56           | FX17        | 24.0          |
| UCF X20<br>X20-63<br>X20-64           | $\frac{315}{16}$<br>4                                | 100  | 10 9/16<br>268           | 8 9/16<br>211 | 2 21/64<br>59 | 1 3/32<br>28 | 3 13/16<br>97 | 1 7/32<br>31 | 5<br>127        | 4.6260<br>117.5 | 1.9370<br>49.2 | 2.6890<br>68.3 | 1         | UC X20<br>X20-63<br>X20-64           | FX20        | 42.5          |

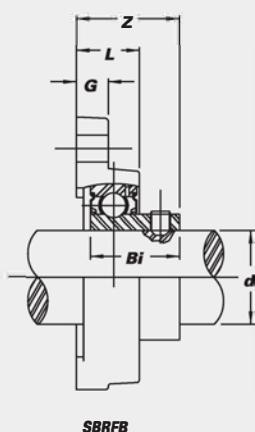
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# SBRFB & SARFB 3-Bolt Flange Units

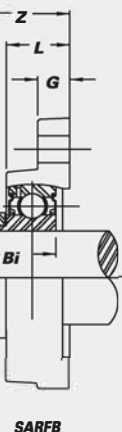
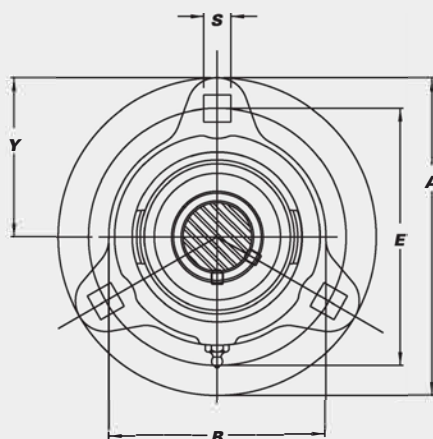


- Ductile iron housing
- Narrow inner race bearing

- K-type seals



SBRFB



SARFB

## SBRFB Set screw type

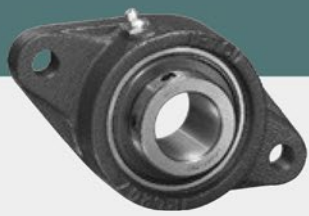
| Unit No.                                          | Shaft Dia.<br><i>d</i>             |      | Dimensions (in.) (mm) |          |          |          |          |          |          |           |          | Bolt Used | Bearing No.                                         | Housing No. | Weight (lbs.) |
|---------------------------------------------------|------------------------------------|------|-----------------------|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|-----------------------------------------------------|-------------|---------------|
|                                                   | (in.)                              | (mm) | <i>A</i>              | <i>E</i> | <i>G</i> | <i>B</i> | <i>L</i> | <i>S</i> | <i>Z</i> | <i>Bi</i> | <i>Y</i> | (in)      |                                                     |             |               |
| SBRFB 204-12<br>204                               | 3/4                                | 20   | 39/16                 | 213/16   | 7/16     | 25/8     | 25/32    | 11/32    | 15/32    | 0.9843    | 125/32   | 5/16      | SB 204-12G<br>204G                                  | RFB 204     | .8            |
| SBRFB 205-14<br>205                               | 7/8                                | 25   | 33/4                  | 3        | 7/16     | 27/8     | 25/32    | 11/32    | 17/32    | 1.0630    | 17/8     | 5/16      | SB 205-14G<br>205G                                  | RFB 205     | .9            |
| 205-15<br>205-16                                  | 15/16<br>1                         |      | 95                    | 76.2     | 11       | 73       | 20       | 9        | 31.0     | 27.0      | 48       |           | 205-15G<br>205-16G                                  |             |               |
| SBRFB 206-17<br>206-18<br>206-19<br>206-20        | 11/16<br>1 1/8<br>1 3/16<br>1 1/4  | 30   | 47/16                 | 39/16    | 15/32    | 3        | 57/64    | 13/32    | 15/16    | 1.1811    | 27/32    | 3/8       | SB 206-17G<br>206-18G<br>206G<br>206-19G<br>206-20G | RFB 206     | 1.2           |
| SBRFB 207-20<br>207-21<br>207-22<br>207<br>207-23 | 1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | 35   | 413/16                | 315/16   | 1/2      | 3 1/2    | 15/16    | 13/32    | 17/16    | 1.2992    | 213/32   | 3/8       | SB 207-20G<br>207-21G<br>207-22G<br>207G<br>207-23G | RFB 207     | 1.7           |

## SARFB Eccentric locking collar type

| Unit No.                                          | Shaft Dia.<br><i>d</i>             |      | Dimensions (in.) (mm) |          |          |          |          |          |          |           |          | Bolt Used | Bearing No.                                         | Housing No. | Weight (lbs.) |
|---------------------------------------------------|------------------------------------|------|-----------------------|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|-----------------------------------------------------|-------------|---------------|
|                                                   | (in.)                              | (mm) | <i>A</i>              | <i>E</i> | <i>G</i> | <i>B</i> | <i>L</i> | <i>S</i> | <i>Z</i> | <i>Bi</i> | <i>Y</i> | (in)      |                                                     |             |               |
| SARFB 204-12<br>204                               | 3/4                                | 20   | 39/16                 | 213/16   | 7/16     | 25/8     | 25/32    | 11/32    | 15/16    | 1.2205    | 125/32   | 5/16      | SA 204-12G<br>204G                                  | RFB 204     | .9            |
| SARFB 205-14<br>205                               | 7/8                                | 25   | 33/4                  | 3        | 7/16     | 27/8     | 25/32    | 11/32    | 13/8     | 1.2205    | 17/8     | 5/16      | SA 205-14G<br>205G                                  | RFB 205     | 1.0           |
| 205-15<br>205-16                                  | 15/16<br>1                         |      | 95                    | 76.2     | 11       | 73       | 20       | 9        | 34.9     | 31.0      | 48       |           | 205-15G<br>205-16G                                  |             |               |
| SARFB 206-17<br>206-18<br>206-19<br>206-20        | 11/16<br>1 1/8<br>1 3/16<br>1 1/4  | 30   | 47/16                 | 39/16    | 15/32    | 3        | 57/64    | 13/32    | 17/32    | 1.4055    | 27/32    | 3/8       | SA 206-17G<br>206-18G<br>206G<br>206-19G<br>206-20G | RFB 206     | 1.3           |
| SARFB 207-20<br>207-21<br>207-22<br>207<br>207-23 | 1 1/4<br>1 5/16<br>1 3/8<br>1 7/16 | 35   | 413/16                | 315/16   | 1/2      | 3 1/2    | 15/16    | 13/32    | 121/32   | 1.5315    | 213/32   | 3/8       | SA 207-20G<br>207-21G<br>207-22G<br>207G<br>207-23G | RFB 207     | 2.0           |

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# UCFL 2-Bolt Flange Units

## Standard duty with set screw lock.

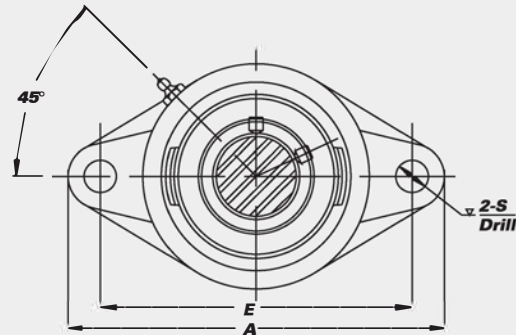
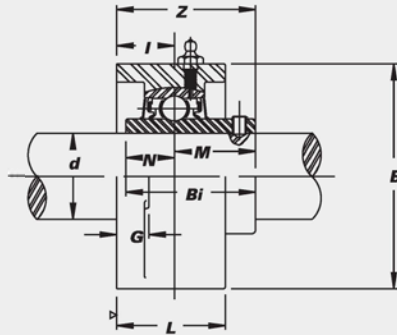
- Cast iron housing
- Wide inner race bearing
- B-type or L3-type seals
- Available with high temp. bearing - See page 46



B-type Seal



L3-type Seal



| Unit No.    | Shaft Dia. |    | Dimensions (in.) (mm) |         |        |       |         |       |         |         |        |        |        | Bolt Used | Bearing No. | Housing No. | Weight (lbs.) |
|-------------|------------|----|-----------------------|---------|--------|-------|---------|-------|---------|---------|--------|--------|--------|-----------|-------------|-------------|---------------|
|             | d          | d  | A                     | E       | I      | G     | L       | S     | B       | Z       | Bi     | N      | M      |           |             |             |               |
| UCFL 201    |            | 12 |                       |         |        |       |         |       |         |         |        |        |        |           | UCW 201     |             |               |
| 201-8       | 1/2        | 15 | 4 13/32               | 3       | 43/64  | 7/16  | 31/32   | 25/64 | 23/8    | 1 1/16  | 1.0236 | 0.3937 | 0.6299 | 5/16      | 201-8       | FT 203      | 0.9           |
| 202         |            | 15 | 112                   | 76.2    | 17     | 11    | 25      | 10    | 60      | 33.3    | 26.0   | 10.0   | 16.0   |           | 202         |             |               |
| 202-10      | 5/8        | 17 |                       |         |        |       |         |       |         |         |        |        |        |           | 202-10      |             |               |
| 203         |            | 17 |                       |         |        |       |         |       |         |         |        |        |        |           | 203         |             |               |
| UCFL 204-12 | 3/4        | 20 | 4 7/16                | 3 17/32 | 19/32  | 7/16  | 1       | 25/64 | 23/8    | 1 1/16  | 1.2205 | 0.5000 | 0.7205 | 5/16      | UC 204-12   | FL 204      | 1.0           |
| 204         |            | 20 | 113                   | 89.7    | 15     | 11    | 25      | 10    | 60      | 33.3    | 31.0   | 12.7   | 18.3   |           | 204         |             |               |
| UCFL 205-14 | 7/8        | 25 | 5 1/8                 | 3 59/64 | 5/8    | 1/2   | 1 1/16  | 15/32 | 2 11/16 | 1 5/32  | 1.3386 | 0.5630 | 0.7756 | 3/8       | UC 205-14   |             |               |
| 205-15      | 1 5/16     | 25 |                       |         |        |       |         |       |         |         |        |        |        |           | 205-15      | FL 205      | 1.5           |
| 205         |            | 25 | 130                   | 98.8    | 16     | 13    | 27      | 11.9  | 68      | 37.3    | 34.0   | 14.3   | 19.7   |           | 205         |             |               |
| 205-16      | 1          |    |                       |         |        |       |         |       |         |         |        |        |        |           | 205-16      |             |               |
| UCFL 206-17 | 1 1/16     | 30 | 5 13/16               | 4 19/32 | 45/64  | 1/2   | 1 7/32  | 15/32 | 3 5/32  | 1 9/32  | 1.5000 | 0.6260 | 0.8740 | 3/8       | UC 206-17   |             |               |
| 206-18      | 1 1/8      |    |                       |         |        |       |         |       |         |         |        |        |        |           | 206-18      | FL 206      | 2.2           |
| 206         |            | 30 | 148                   | 116.7   | 18     | 13    | 31      | 11.9  | 80      | 40.5    | 38.1   | 15.9   | 22.2   |           | 206         |             |               |
| 206-19      | 1 3/16     |    |                       |         |        |       |         |       |         |         |        |        |        |           | 206-19      |             |               |
| 206-20      | 1 1/4 S    |    |                       |         |        |       |         |       |         |         |        |        |        |           | 206-20      |             |               |
| UCFL 207-20 | 1 1/4      | 35 | 6 11/32               | 5 1/8   | 3/4    | 9/16  | 1 11/32 | 33/64 | 3 17/32 | 1 3/4   | 1.6890 | 0.6890 | 1.0000 | 7/16      | UC 207-20   |             |               |
| 207-21      | 1 5/16     |    |                       |         |        |       |         |       |         |         |        |        |        |           | 207-21      | FL 207      | 2.9           |
| 207-22      | 1 3/8      |    | 161                   | 130.2   | 19     | 14    | 34      | 13    | 90      | 44.5    | 42.9   | 17.5   | 25.4   |           | 207-22      |             |               |
| 207         |            | 35 |                       |         |        |       |         |       |         |         |        |        |        |           | 207         |             |               |
| 207-23      | 1 7/16     |    |                       |         |        |       |         |       |         |         |        |        |        |           | 207-23      |             |               |
| UCFL 208-24 | 1 1/2      | 40 | 6 7/8                 | 5 21/32 | 53/64  | 9/16  | 1 13/32 | 33/64 | 3 15/16 | 2       | 1.9370 | 0.7480 | 1.1890 | 7/16      | UC 208-24   |             |               |
| 208-25      | 1 9/16     |    |                       |         |        |       |         |       |         |         |        |        |        |           | 208-25      | FL 208      | 3.5           |
| 208         |            | 40 | 175                   | 143.7   | 21     | 14    | 36      | 13    | 100     | 50.8    | 49.2   | 19.0   | 30.2   |           | 208         |             |               |
| UCFL 209-26 | 1 5/8      | 45 | 7 13/32               | 5 27/32 | 55/64  | 19/32 | 1 1/2   | 19/32 | 4 1/4   | 2 1/16  | 1.9370 | 0.7480 | 1.1890 | 1/2       | UC 209-26   |             |               |
| 209-27      | 1 11/16    |    |                       |         |        |       |         |       |         |         |        |        |        |           | 209-27      | FL 209      | 4.4           |
| 209-28      | 1 3/4      |    | 188                   | 148.4   | 22     | 15    | 38      | 15    | 108     | 52.4    | 49.2   | 19.0   | 30.2   |           | 209-28      |             |               |
| 209         |            | 45 |                       |         |        |       |         |       |         |         |        |        |        |           | 209         |             |               |
| UCFL 210-30 | 1 7/8      | 50 | 7 3/4                 | 6 3/16  | 55/64  | 19/32 | 1 9/16  | 5/8   | 4 17/32 | 2 5/32  | 2.0315 | 0.7480 | 1.2835 | 1/2       | UC 210-30   |             |               |
| 210-31      | 1 15/16    |    |                       |         |        |       |         |       |         |         |        |        |        |           | 210-31      | FL 210      | 5.1           |
| 210         |            | 50 | 197                   | 157     | 22     | 15    | 40      | 16    | 115     | 54.8    | 51.6   | 19.0   | 32.6   |           | 210         |             |               |
| 210-32      | 2 S        |    |                       |         |        |       |         |       |         |         |        |        |        |           | 210-32      |             |               |
| UCFL 211-32 | 2          | 55 | 8 13/16               | 7 1/4   | 63/64  | 23/32 | 1 11/16 | 41/64 | 5 1/8   | 2 5/16  | 2.1890 | 0.8740 | 1.3150 | 9/16      | UC 211-32   |             |               |
| 211-34      | 2 1/8      |    |                       |         |        |       |         |       |         |         |        |        |        |           | 211-34      | FL 211      | 7.3           |
| 211         |            | 55 | 224                   | 184     | 25     | 18    | 43      | 16.3  | 130     | 58.7    | 55.6   | 22.2   | 33.4   |           | 211         |             |               |
| 211-35      | 2 5/16     |    |                       |         |        |       |         |       |         |         |        |        |        |           | 211-35      |             |               |
| UCFL 212-36 | 2 1/4      | 60 | 9 27/32               | 7 15/16 | 1 5/64 | 23/32 | 1 7/8   | 41/64 | 5 1/2   | 2 23/32 | 2.5630 | 1.0000 | 1.5630 | 9/16      | UC 212-36   |             |               |
| 212         |            | 60 |                       |         |        |       |         |       |         |         |        |        |        |           | 212         | FL 212      | 9.5           |
| 212-38      | 2 3/8      |    | 250                   | 201.6   | 29     | 18    | 48      | 16.3  | 140     | 69.1    | 65.1   | 25.4   | 39.7   |           | 212-38      |             |               |
| 212-39      | 2 7/16     |    |                       |         |        |       |         |       |         |         |        |        |        |           | 212-39      |             |               |

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# NANFL 2-Bolt Flange Units



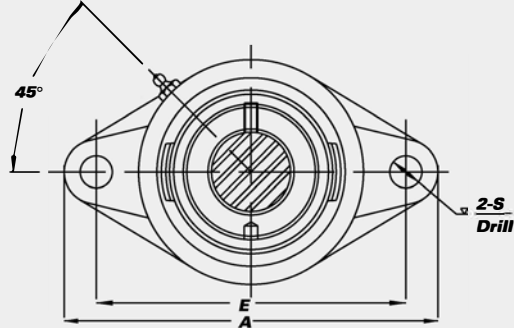
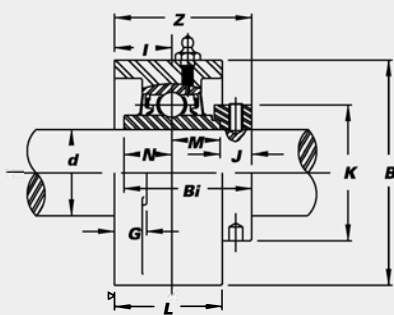
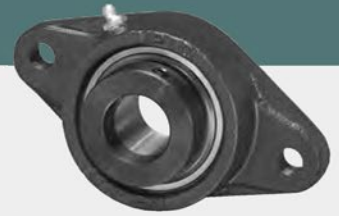
B-type Seal



L3-type Seal

## Standard duty with eccentric locking collar.

- Cast iron housing
- Wide inner race bearing
- B-type or L3-type seals



| Unit No.     | Shaft Dia. |            | Dimensions (in.) (mm) |         |         |       |         |        |         |         |        |        |        |        | Bolt Used (in.) | Bearing No. | Housing No. | Weight (lbs.) |
|--------------|------------|------------|-----------------------|---------|---------|-------|---------|--------|---------|---------|--------|--------|--------|--------|-----------------|-------------|-------------|---------------|
|              | d          | (in.) (mm) | A                     | E       | I       | G     | L       | S      | B       | Z       | Bi     | N      | M      | J      | K               |             |             |               |
| NANFL 201    | 12         |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 | NAW201      |             |               |
| 201-8        | 1/2        | 12         | 4 13/32               | 3       | 43/64   | 7/16  | 31/32   | 25/64  | 2 3/8   | 1 19/32 | 1.4685 | 0.5472 | 0.5472 | 0.3740 | 1.1260          | 5/16        | 201-8       |               |
| 202          |            | 15         | 112                   | 76.2    | 17      | 11    | 25      | 10     | 60      | 40.5    | 37.3   | 13.9   | 13.9   | 9.5    | 28.6            |             | 202         | FT 203        |
| 202-10       | 5/8        | 17         |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 202-10      |               |
| 203          |            |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 203         |               |
| NANFL 204-12 | 3/4        | 20         | 47/16                 | 3 17/32 | 3/4     | 7/16  | 1 5/32  | 25/64  | 2 5/8   | 1 25/32 | 1.7126 | 0.6693 | 0.6693 | 0.3740 | 1.3110          | 5/16        | NA 204-12   | NFL 204       |
| 204          |            |            | 113                   | 89.7    | 19      | 11    | 29.5    | 10     | 60      | 45.5    | 43.5   | 17.0   | 17.0   | 9.5    | 33.3            |             | 204         |               |
| NANFL 205-14 | 7/8        | 25         | 5 1/8                 | 3 57/64 | 25/32   | 1/2   | 1 7/32  | 15/32  | 2 11/16 | 1 27/32 | 1.7441 | 0.6850 | 0.6850 | 0.3740 | 1.5000          | 3/8         | NA 205-14   | NFL 205       |
| 205-15       | 15/16      |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 205-15      |               |
| 205          |            | 25         | 130                   | 98.8    | 20      | 13    | 31      | 11.9   | 68      | 46.7    | 44.3   | 17.4   | 17.4   | 9.5    | 38.1            |             | 205         |               |
| 205-16       | 1          |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 205-16      |               |
| NANFL 206-17 | 1 1/16     | 30         | 5 13/16               | 4 19/32 | 53/64   | 1/2   | 1 11/32 | 15/32  | 3 5/32  | 2       | 1.9016 | 0.7165 | 0.7165 | 0.4685 | 1.7520          | 3/8         | NA 206-17   | NFL 206       |
| 206-18       | 1 1/8      |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 206-18      |               |
| 206          |            |            | 148                   | 116.7   | 21      | 13    | 34      | 11.9   | 80      | 51.1    | 48.3   | 18.2   | 18.2   | 11.9   | 44.5            |             | 206         |               |
| 206-19       | 1 3/16     |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 206-19      |               |
| 206-20       | 1 1/4 S    |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 206-20      |               |
| NANFL 207-20 | 1 1/4      | 35         | 6 11/32               | 5 1/8   | 27/32   | 9/16  | 1 7/16  | 33/64  | 3 17/32 | 2 1/8   | 2.0118 | 0.7402 | 0.7402 | 0.5315 | 2.1890          | 7/16        | NA 207-20   | NFL 207       |
| 207-21       | 1 5/16     |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 207-21      |               |
| 207-22       | 1 3/8      |            | 161                   | 130.2   | 21.5    | 14    | 36.5    | 13     | 90      | 53.8    | 51.1   | 18.8   | 18.8   | 13.5   | 55.6            |             | 207-22      |               |
| 207          |            |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 207         |               |
| 207-23       | 1 7/16     |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 207-23      |               |
| NANFL 208-24 | 1 1/2      | 40         | 6 7/8                 | 5 21/32 | 15/16   | 9/16  | 1 17/32 | 33/64  | 3 15/16 | 2 5/16  | 2.2165 | 0.8425 | 0.8425 | 0.5315 | 2.3740          | 7/16        | NA 208-24   | NFL 208       |
| 208-25       | 1 9/16     |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 208-25      |               |
| 208          |            |            | 175                   | 143.7   | 24      | 14    | 39      | 13     | 100     | 58.9    | 56.3   | 21.4   | 21.4   | 13.5   | 60.3            |             | 208         |               |
| NANFL 209-26 | 1 5/8      | 45         | 7 13/32               | 5 27/32 | 15/16   | 9/16  | 1 9/16  | 19/32  | 4 1/4   | 2 5/16  | 2.2165 | 0.8425 | 0.8425 | 0.5315 | 2.5000          | 1/2         | NA 209-26   | NFL 209       |
| 209-27       | 1 11/16    |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 209-27      |               |
| 209-28       | 1 3/4      |            | 188                   | 148.4   | 24      | 14    | 40      | 15     | 108     | 58.9    | 56.3   | 21.4   | 21.4   | 13.5   | 63.5            |             | 209-28      |               |
| 209          |            |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 209         |               |
| NANFL 210-30 | 1 7/8      | 50         | 7 3/4                 | 6 3/16  | 1 1/8   | 9/16  | 1 27/32 | 19/32  | 4 17/32 | 2 5/8   | 2.4685 | 0.9685 | 0.9685 | 0.5315 | 2.7520          | 1/2         | NA 210-30   | NFL 210       |
| 210-31       | 1 15/16    |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 210-31      |               |
| 210          |            |            | 197                   | 157     | 28.5    | 14    | 46.5    | 15     | 115     | 66.6    | 62.7   | 24.6   | 24.6   | 13.5   | 69.9            |             | 210         |               |
| 210-32       | 2 S        |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 210-32      |               |
| NANFL 211-32 | 2          | 55         | 8 13/16               | 7 1/4   | 1 7/16  | 13/16 | 1 31/32 | 4 1/64 | 5 1/8   | 2 31/32 | 2.8110 | 1.0906 | 1.0906 | 0.6299 | 3.0000          | 9/16        | NA 211-32   | NFL 211       |
| 211-34       | 2 1/8      |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 211-34      |               |
| 211          |            |            | 224                   | 184     | 32      | 20    | 50      | 16.3   | 130     | 75.7    | 71.4   | 27.7   | 27.7   | 16.0   | 76.2            |             | 211         |               |
| 211-35       | 2 3/16     |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 211-35      |               |
| NANFL 212-36 | 2 1/4      | 60         | 9 27/32               | 7 15/16 | 1 27/64 | 13/16 | 2 5/32  | 4 1/64 | 5 1/2   | 3 3/4   | 3.0630 | 1.2165 | 1.2165 | 0.6299 | 3.3150          | 9/16        | NA 212-36   | NFL 212       |
| 212          |            |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 212         |               |
| 212-38       | 2 3/8      |            | 250                   | 202     | 36      | 20    | 55      | 16.3   | 140     | 82.9    | 77.8   | 30.9   | 30.9   | 16.0   | 84.2            |             | 212-38      |               |
| 212-39       | 2 7/16     |            |                       |         |         |       |         |        |         |         |        |        |        |        |                 |             | 212-39      |               |

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# SBLF H4 & SALF H4 Flange Units

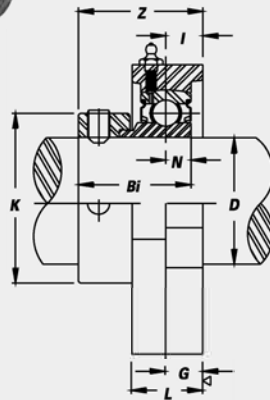


- Ductile iron housing
- Square bolt holes
- K-type seals

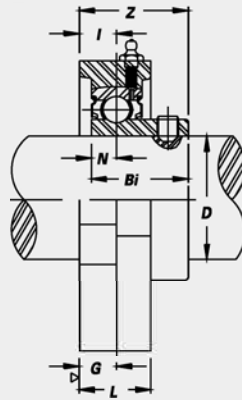
- Narrow inner race bearing
- Also available non-relubricatable — please specify



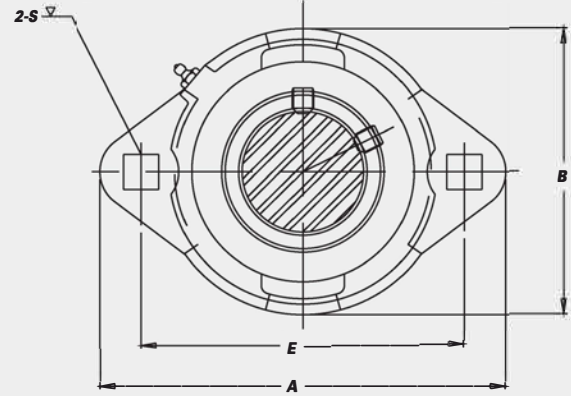
K-type Seal



SBLF H4



SALF H4



## SBLF H4 Set screw type

| Unit No.                                                        | Shaft Dia.<br><i>d</i>                     |          | Dimensions (in.) (mm) |                  |             |             |             |             |               |                 |                |               | Bolt Used (in.) | Bearing No.                                         | Housing No. | Weight (lbs.) |
|-----------------------------------------------------------------|--------------------------------------------|----------|-----------------------|------------------|-------------|-------------|-------------|-------------|---------------|-----------------|----------------|---------------|-----------------|-----------------------------------------------------|-------------|---------------|
|                                                                 | (in.)                                      | (mm)     | A                     | E                | I           | G           | L           | S           | B             | Z               | Bi             | N             |                 |                                                     |             |               |
| SBLF 201-8GH4<br>202GH4<br>202-10GH4<br>203GH4                  | 1/2<br>5/8                                 | 15<br>17 | 3 3/16<br>81          | 2 1/2<br>63.5    | 3/8<br>10   | 3/8<br>10   | 23/32<br>18 | 5/16<br>8   | 2 7/32<br>56  | 1<br>25.4       | 0.8661<br>22.0 | 0.2362<br>6.0 | 1/4             | SB 201-8G<br>202G<br>202-10G<br>203G                | LF 203 H4   | 0.6           |
| SBLF 204-12GH4<br>204GH4                                        | 3/4                                        | 20       | 3 17/32<br>90         | 2 13/16<br>71.5  | 7/16<br>11  | 7/16<br>11  | 25/32<br>20 | 25/64<br>10 | 2 13/32<br>61 | 1 5/32<br>29.0  | 0.9843<br>25.0 | 0.2756<br>7.0 | 5/16            | SB 204-12G<br>204G                                  | LF 204 H4   | 0.7           |
| SBLF 205-14GH4<br>205GH4<br>205-15GH4<br>205-16GH4              | 7/8<br>15/16<br>1                          | 25       | 3 3/4<br>95           | 2 63/64<br>76.0  | 7/16<br>11  | 7/16<br>11  | 25/32<br>20 | 25/64<br>10 | 2 17/32<br>64 | 1 3/16<br>30.5  | 1.0630<br>27.0 | 0.2953<br>7.5 | 5/16            | SB 205-14G<br>205G<br>205-15G<br>205-16G            | LF 205 H4   | 0.9           |
| SBLF 206-17GH4<br>206-18GH4<br>206GH4<br>206-19GH4<br>206-20GH4 | 1 1/16<br>1 1/8<br>1 1/4<br>1 3/8<br>1 1/2 | 30       | 4 7/16<br>113         | 3 9/16<br>90.5   | 15/32<br>12 | 15/32<br>12 | 7/8<br>23   | 15/32<br>12 | 3<br>76       | 1 11/32<br>34.0 | 1.1811<br>30.0 | 0.3150<br>8.0 | 3/8             | SB 206-17G<br>206-18G<br>206G<br>206-19G<br>206-20G | LF 206 H4   | 1.2           |
| SBLF 207-20GH4<br>207-21GH4<br>207-22GH4<br>207GH4<br>207-23GH4 | 1 1/4<br>1 5/8<br>1 3/4<br>1 7/8<br>1 7/8  | 35       | 4 13/16<br>122        | 3 15/16<br>100.0 | 33/64<br>13 | 33/64<br>13 | 15/16<br>24 | 15/32<br>12 | 3 1/2<br>89   | 1 7/16<br>36.5  | 1.2992<br>33.0 | 0.3740<br>9.5 | 3/8             | SB 207-20G<br>207-21G<br>207-22G<br>207G<br>207-23G | LF 207 H4   | 1.7           |

## SALF H4 Eccentric locking collar type

| Unit No.                                                        | Shaft Dia.                                  |          | Dimensions (in.) (mm) |                  |             |             |             |             |               |                 |                |               |              | Bolt Used (in.) | Bearing No.                                         | Housing No. | Weight (lbs.) |
|-----------------------------------------------------------------|---------------------------------------------|----------|-----------------------|------------------|-------------|-------------|-------------|-------------|---------------|-----------------|----------------|---------------|--------------|-----------------|-----------------------------------------------------|-------------|---------------|
|                                                                 | <i>d</i>                                    |          | <i>A</i>              | <i>E</i>         | <i>I</i>    | <i>G</i>    | <i>L</i>    | <i>S</i>    | <i>B</i>      | <i>Z</i>        | <i>Bi</i>      | <i>N</i>      | <i>K</i>     |                 |                                                     |             |               |
|                                                                 | (in.)                                       | (mm)     |                       |                  |             |             |             |             |               |                 |                |               |              |                 |                                                     |             |               |
| SALF 201-8GH4<br>202GH4<br>202-10GH4<br>203GH4                  | 1/2<br>5/8                                  | 15<br>17 | 3 3/16<br>81          | 2 1/2<br>63.5    | 3/8<br>10   | 3/8<br>10   | 23/32<br>18 | 5/16<br>8   | 2 7/32<br>56  | 1 1/4<br>31.8   | 1.1260<br>28.6 | 0.2362<br>6.0 | 1 1/8<br>29  | 1/4             | SA 201-8G<br>202G<br>202-10G<br>203G                | LF 203 H4   | 0.7           |
| SALF 204-12GH4<br>204GH4                                        | 3/4                                         | 20       | 3 17/32<br>90         | 2 13/16<br>71.5  | 7/16<br>11  | 7/16<br>11  | 25/32<br>20 | 25/64<br>10 | 2 13/32<br>61 | 1 23/64<br>34.4 | 1.2205<br>31.0 | 0.2953<br>7.5 | 1 5/16<br>33 | 5/16            | SA 204-12G<br>204G                                  | LF 204 H4   | 0.8           |
| SALF 205-14GH4<br>205GH4<br>205-15GH4<br>205-16GH4              | 7/8<br>15/16<br>1                           | 25       | 3 3/4<br>95           | 2 63/64<br>76.0  | 7/16<br>11  | 7/16<br>11  | 25/32<br>20 | 25/64<br>10 | 2 17/32<br>64 | 1 23/64<br>34.4 | 1.2205<br>31.0 | 0.2953<br>7.5 | 1 1/2<br>38  | 5/16            | SA 205-14G<br>205G<br>205-15G<br>205-16G            | LF 205 H4   | 1.0           |
| SALF 206-17GH4<br>206-18GH4<br>206GH4<br>206-19GH4<br>206-20GH4 | 1 1/16<br>1 1/8<br>1 1/4<br>1 3/8<br>1 1/2S | 30       | 4 7/16<br>113         | 3 9/16<br>90.5   | 15/32<br>12 | 15/32<br>12 | 7/8<br>23   | 15/32<br>12 | 3<br>76       | 1 17/32<br>38.9 | 1.4055<br>35.7 | 0.3543<br>9.0 | 1 3/4<br>45  | 3/8             | SA 206-17G<br>206-18G<br>206G<br>206-19G<br>206-20G | LF 206 H4   | 1.4           |
| SALF 207-20GH4<br>207-21GH4<br>207-22GH4<br>207GH4<br>207-23GH4 | 1 1/4<br>1 5/8<br>1 3/8<br>1 7/8<br>1 7/16  | 35       | 4 13/16<br>122        | 3 15/16<br>100.0 | 33/64<br>13 | 33/64<br>13 | 15/16<br>24 | 15/32<br>12 | 3 1/2<br>89   | 1 11/16<br>42.7 | 1.5315<br>38.9 | 0.3740<br>9.5 | 2 9/16<br>60 | 3/8             | SA 207-20G<br>207-21G<br>207-22G<br>207G<br>207-23G | LF 207 H4   | 2.0           |

G=Relubricatable Specify "N" for non-relubricatable units Interchange Page 47

# UCHA Hanger Units



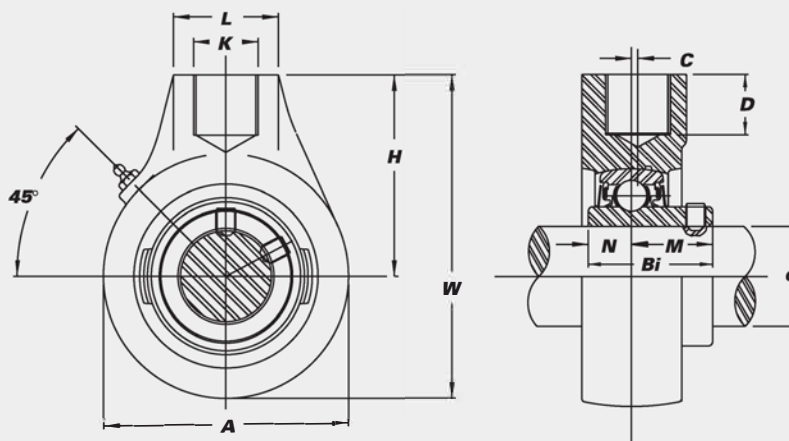
B-type Seal



L3-type Seal

## Standard duty with set screw lock.

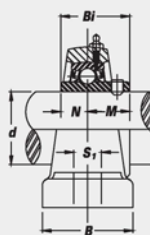
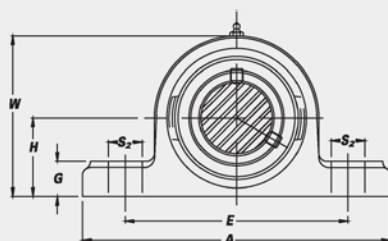
- Cast iron housing
- Wide inner race bearing
- Available with eccentric locking collar bearing
- B-type seals
- L3-type seals available in some sizes



| Unit No.    | Shaft Dia.<br><i>d</i><br>(in.) (mm) | Dimensions (in.) (mm) |          |          |          |          |          |          |           |          |          | Bearing No. | Housing No. | Weight (lbs.) |
|-------------|--------------------------------------|-----------------------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|-------------|-------------|---------------|
|             |                                      | <i>A</i>              | <i>W</i> | <i>C</i> | <i>H</i> | <i>L</i> | <i>D</i> | <i>K</i> | <i>Bi</i> | <i>N</i> | <i>M</i> |             |             |               |
| UCHA 201    | 12                                   |                       |          |          |          |          |          |          |           |          |          | UC 201      |             |               |
| 201-8       | 1/2                                  |                       |          |          |          |          |          |          |           |          |          | 201-8       |             |               |
| 202         | 15                                   | 2 33/64               | 3 25/32  | 0        | 2 33/64  | 1 9/16   | 3/4      | PF 3/4   | 1.2205    | 0.5000   | 0.7205   | 202         | HA 204      | 1.7           |
| 202-10      | 5/8                                  | 64                    | 96       |          | 64       | 40       | 19.1     | -14      | 31.0      | 12.7     | 18.3     | 202-10      |             |               |
| 203         | 17                                   |                       |          |          |          |          |          |          |           |          |          | 203         |             |               |
| 204-12      | 3/4                                  |                       |          |          |          |          |          |          |           |          |          | 204-12      |             |               |
| 204         | 20                                   |                       |          |          |          |          |          |          |           |          |          | 204         |             |               |
| UCHA 205-14 | 7/8                                  |                       |          |          |          |          |          |          |           |          |          | UC 205-14   |             |               |
| 205-15      | 1 5/16                               |                       |          |          |          |          |          |          |           |          |          | 205-15      |             |               |
| 205         | 25                                   | 3 1/16                | 4 1/16   | 0        | 2 33/64  | 1 9/16   | 3/4      | PF 3/4   | 1.3386    | 0.5630   | 0.7756   | 205         | HA 205      | 1.9           |
| 205-16      | 1                                    | 78                    | 103      |          | 64       | 40       | 19.1     | -14      | 34.0      | 14.3     | 19.7     | 205-16      |             |               |
| UCHA 206-17 | 1 1/16                               |                       |          |          |          |          |          |          |           |          |          | UC 206-17   |             |               |
| 206-18      | 1 1/8                                |                       |          |          |          |          |          |          |           |          |          | 206-18      |             |               |
| 206         | 30                                   | 3 5/32                | 4 3/32   | 0        | 2 33/64  | 1 9/16   | 3/4      | PF 3/4   | 1.5000    | 0.6260   | 0.8740   | 206         | HA 206      | 1.9           |
| 206-19      | 1 9/16                               | 80                    | 104      |          | 64       | 40       | 19.1     | -14      | 38.1      | 15.9     | 22.2     | 206-19      |             |               |
| 206-20      | 1 1/4 S                              |                       |          |          |          |          |          |          |           |          |          | 206-20      |             |               |
| UCHA 207-20 | 1 1/4                                |                       |          |          |          |          |          |          |           |          |          | UC 207-20   |             |               |
| 207-21      | 1 9/16                               |                       |          |          |          |          |          |          |           |          |          | 207-21      |             |               |
| 207-22      | 1 3/8                                |                       |          |          |          |          |          |          |           |          |          | 207-22      |             |               |
| 207         | 35                                   | 3 5/8                 | 4 9/16   | 0        | 2 3/4    | 1 9/16   | 3/4      | PF 3/4   | 1.6890    | 0.6890   | 1.0000   | 207         | HA 207      | 2.6           |
| 207-23      | 1 7/16                               | 92                    | 116      |          | 70       | 40       | 19.1     | -14      | 42.9      | 17.5     | 25.4     | 207-23      |             |               |
| UCHA 208-24 | 1 1/2                                |                       |          |          |          |          |          |          |           |          |          | UC 208-24   |             |               |
| 208-25      | 1 9/16                               |                       |          |          |          |          |          |          |           |          |          | 208-25      |             |               |
| 208         | 40                                   | 3 15/16               | 4 27/32  | 5/64     | 2 7/8    | 1 9/16   | 3/4      | PF 3/4   | 1.9370    | 0.7480   | 1.1890   | 208         | HA 208      | 3.4           |
| UCHA 209-26 | 1 5/8                                |                       |          |          |          |          |          |          |           |          |          | UC 209-26   |             |               |
| 209-27      | 1 11/16                              |                       |          |          |          |          |          |          |           |          |          | 209-27      |             |               |
| 209-28      | 1 3/4                                |                       |          |          |          |          |          |          |           |          |          | 209-28      |             |               |
| 209         | 45                                   | 4 1/4                 | 5 11/32  | 13/64    | 3 15/64  | 1 7/8    | 13/16    | PF 1     | 1.9370    | 0.7480   | 1.1890   | 209         | HA 209      | 3.9           |
| UCHA 210-30 | 1 7/8                                |                       |          |          |          |          |          |          |           |          |          | UC 210-30   |             |               |
| 210-31      | 1 15/16                              |                       |          |          |          |          |          |          |           |          |          | 210-31      |             |               |
| 210         | 50                                   | 4 21/32               | 5 19/32  | 13/64    | 3 17/64  | 1 7/8    | 13/16    | PF 1     | 2.0315    | 0.7480   | 1.2835   | 210         | HA 210      | 4.6           |
| 210-32      | 2 S                                  | 118                   | 142      | 5        | 83       | 48       | 21       | -11 1/2  | 51.6      | 19.0     | 32.6     | 210-32      |             |               |
| UCHA 211-34 | 2 1/8                                |                       |          |          |          |          |          |          |           |          |          | UC X11-34   |             |               |
| 211         |                                      |                       |          |          |          |          |          |          |           |          |          | X11         |             |               |
| 211-35      | 2 3/16                               |                       |          |          |          |          |          |          |           |          |          | X11-35      |             |               |
| UCHA 212-36 | 2 1/4                                |                       |          |          |          |          |          |          |           |          |          | UC 212-36   |             |               |
| 212         | 60                                   | 5 19/32               | 6 13/16  | 23/64    | 4 1/64   | 2 3/8    | 1 3/32   | PF 1 1/4 | 2.5630    | 1.0000   | 1.5630   | 212         | HA 212      | 8.2           |
| 212-38      | 2 3/8                                | 142                   | 173      | 9        | 102      | 60       | 28       | -11 1/2  | 65.1      | 25.4     | 39.7     | 212-38      |             |               |
| 212-39      | 2 7/16                               |                       |          |          |          |          |          |          |           |          |          | 212-39      |             |               |
| UCHA 214-43 | 2 11/16                              |                       |          |          |          |          |          |          |           |          |          | UC X14-43   |             |               |
| 214         | 70                                   | 6 17/32               | 7 7/8    | 3/8      | 4 39/64  | 2 3/4    | 1 1/4    | PF 1 1/2 | 3.0630    | 1.3110   | 1.7520   | X14         | HA 215      | 13.2          |
| UCHA 215-47 | 2 15/16                              |                       |          |          |          |          |          |          |           |          |          | UC 215-47   |             |               |
| 215         |                                      |                       |          |          |          |          |          |          |           |          |          | 215         |             |               |
| 215-48      | 3                                    | 75                    | 166      | 200      | 9.5      | 117      | 70       | 32       | 77.8      | 33.3     | 44.5     | 215-48      | HA 215      | 12.2          |

Interchange Page 47

# Thermoplastic Pillow Blocks



B-type Seal



L3-type Seal

**With Set Screw Lock**  
**Optional bearing inserts:**  
**Stainless Steel-SUCTP**  
**Hard Chrome Coated-CUCTP**  
**Black Oxide-BUCTP**

• End Caps Available for all styles.

B-type seal available in all styles and sizes.

L3-type seal available in SUC units only. Limited sizes. Consult IPTCI for speed limitations.

CORROSION RESISTANT

| Unit No.                                          | Shaft Dia.                     |            | Dimensions (in.) (mm) |                |               |               |              |             |             |              |                |                |                | Bolt Used (in.) | Bearing No.                           | Housing No.                                     | Weight (lbs.) |     |
|---------------------------------------------------|--------------------------------|------------|-----------------------|----------------|---------------|---------------|--------------|-------------|-------------|--------------|----------------|----------------|----------------|-----------------|---------------------------------------|-------------------------------------------------|---------------|-----|
|                                                   | d                              | (in.) (mm) | H                     | A              | E             | B             | S2           | S1          | W           | BG           | N              | M              |                |                 |                                       |                                                 |               |     |
| SUCTP with Stainless Steel Bearing Inserts        |                                |            |                       |                |               |               |              |             |             |              |                |                |                |                 |                                       |                                                 |               |     |
| SUCTP 201-8<br>202-10<br>204-12<br>204            | 1/2<br>5/8<br>3/4              | 20         | 15/16<br>33.3         | 5<br>127       | 33/4<br>95    | 11/2<br>38    | 9/16<br>14   | 7/16<br>11  | 9/16<br>14  | 219/32<br>66 | 1.2205<br>31.0 | 0.5000<br>12.7 | 0.7205<br>18.3 | 3/8             | SUC 201-8<br>202-10<br>204-12<br>204  | TP 204                                          | .8            |     |
| SUCTP 205-14<br>205<br>205-16                     | 7/8<br>1                       |            | 25                    | 17/16<br>36.5  | 51/2<br>140   | 41/8<br>105   | 11/2<br>38   | 9/16<br>14  | 7/16<br>11  | 9/16<br>14   | 213/16<br>71   | 1.3386<br>34.0 | 0.5630<br>14.3 | 0.7756<br>19.7  | 3/8                                   | SUC 205-14<br>205<br>205-16                     | TP 205        | .8  |
| SUCTP 206-18<br>206<br>206-19<br>206-20           | 11/8<br>13/16<br>11/4S         |            | 30                    | 111/16<br>42.9 | 613/32<br>163 | 411/16<br>119 | 113/16<br>46 | 23/32<br>18 | 9/16<br>14  | 11/16<br>18  | 319/64<br>84   | 1.5000<br>38.1 | 0.6260<br>15.9 | 0.8740<br>22.2  | 1/2                                   | SUC 206-18<br>206<br>206-19<br>206-20           | TP 206        | 1.2 |
| SUCTP 207-20<br>207-21<br>207-22<br>207<br>207-23 | 11/4<br>15/16<br>13/8<br>17/16 |            | 35                    | 17/8<br>47.6   | 65/8<br>168   | 5<br>127      | 129/32<br>48 | 23/32<br>18 | 9/16<br>14  | 11/16<br>18  | 311/16<br>94   | 1.6890<br>42.9 | 0.6890<br>17.5 | 1.0000<br>25.4  | 1/2                                   | SUC 207-20<br>207-21<br>207-22<br>207<br>207-23 | TP 207        | 1.7 |
| SUCTP 208-24<br>208                               | 11/2                           | 40         | 115/16<br>49.2        | 71/4<br>184    | 57/16<br>137  | 21/8<br>54    | 23/32<br>18  | 9/16<br>14  | 25/32<br>20 | 329/32<br>99 | 1.9370<br>49.2 | 0.7480<br>19.0 | 1.1890<br>30.2 | 1/2             | SUC 208-24<br>208                     | TP 208                                          | 2.2           |     |
| CUCTP with Hard Chrome Coated Bearing Inserts     |                                |            |                       |                |               |               |              |             |             |              |                |                |                |                 |                                       |                                                 |               |     |
| CUCTP 204-12<br>204                               | 3/4                            | 20         | 15/16<br>33.3         | 5<br>127       | 33/4<br>95    | 11/2<br>38    | 9/16<br>14   | 7/16<br>11  | 9/16<br>14  | 219/32<br>66 | 1.2205<br>31.0 | 0.5000<br>12.7 | 0.7205<br>18.3 | 3/8             | CUC 204-12<br>204                     | TP 204                                          | .8            |     |
| CUCTP 205-14<br>205<br>205-16                     | 7/8<br>1                       | 25         | 17/16<br>36.5         | 51/2<br>140    | 41/8<br>105   | 11/2<br>38    | 9/16<br>14   | 7/16<br>11  | 9/16<br>14  | 213/16<br>71 | 1.3386<br>34.0 | 0.5630<br>14.3 | 0.7756<br>19.7 | 3/8             | CUC 205-14<br>205<br>205-16           | TP 205                                          | .8            |     |
| CUCTP 206-18<br>206<br>206-19<br>206-20           | 11/8<br>13/16<br>11/4S         | 30         | 111/16<br>42.9        | 613/32<br>163  | 411/16<br>119 | 113/16<br>46  | 23/32<br>18  | 9/16<br>14  | 11/16<br>18 | 319/64<br>84 | 1.5000<br>38.1 | 0.6260<br>15.9 | 0.8740<br>22.2 | 1/2             | CUC 206-18<br>206<br>206-19<br>206-20 | TP 206                                          | 1.2           |     |
| CUCTP 207-20<br>207-22<br>207<br>207-23           | 11/4<br>13/8<br>17/16          | 35         | 17/8<br>47.6          | 65/8<br>168    | 5<br>127      | 129/32<br>48  | 23/32<br>18  | 9/16<br>14  | 11/16<br>18 | 311/16<br>94 | 1.6890<br>42.9 | 0.6890<br>17.5 | 1.0000<br>25.4 | 1/2             | CUC 207-20<br>207-22<br>207<br>207-23 | TP 207                                          | 1.7           |     |
| CUCTP 208-24<br>208                               | 11/2                           | 40         | 115/16<br>49.2        | 71/4<br>184    | 57/16<br>137  | 21/8<br>54    | 23/32<br>18  | 9/16<br>14  | 25/32<br>20 | 329/32<br>99 | 1.9370<br>49.2 | 0.7480<br>19.0 | 1.1890<br>30.2 | 1/2             | CUC 208-24<br>208                     | TP 208                                          | 2.2           |     |
| BUCTP with Black Oxide Bearing Inserts            |                                |            |                       |                |               |               |              |             |             |              |                |                |                |                 |                                       |                                                 |               |     |
| BUCTP 201-8<br>202-10<br>204-12<br>204            | 1/2<br>5/8<br>3/4              | 20         | 15/16<br>33.3         | 5<br>127       | 33/4<br>95    | 11/2<br>38    | 9/16<br>14   | 7/16<br>11  | 9/16<br>14  | 219/32<br>66 | 1.2205<br>31.0 | 0.5000<br>12.7 | 0.7205<br>18.3 | 3/8             | BUC 201-8<br>202-10<br>204-12<br>204  | TP 204                                          | .8            |     |
| BUCTP 205-14<br>205<br>205-16                     | 7/8<br>1                       | 25         | 17/16<br>36.5         | 51/2<br>140    | 41/8<br>105   | 11/2<br>38    | 9/16<br>14   | 7/16<br>11  | 9/16<br>14  | 213/16<br>71 | 1.3386<br>34.0 | 0.5630<br>14.3 | 0.7756<br>19.7 | 3/8             | BUC 205-14<br>205<br>205-16           | TP 205                                          | .8            |     |
| BUCTP 206-18<br>206<br>206-19<br>206-20           | 11/8<br>13/16<br>11/4S         | 30         | 111/16<br>42.9        | 613/32<br>163  | 411/16<br>119 | 113/16<br>46  | 23/32<br>18  | 9/16<br>14  | 11/16<br>18 | 319/64<br>84 | 1.5000<br>38.1 | 0.6260<br>15.9 | 0.8740<br>22.2 | 1/2             | BUC 206-18<br>206<br>206-19<br>206-20 | TP 206                                          | 1.2           |     |
| BUCTP 207-20<br>207-22<br>207<br>207-23           | 11/4<br>13/8<br>17/16          | 35         | 17/8<br>47.6          | 65/8<br>168    | 5<br>127      | 129/32<br>48  | 23/32<br>18  | 9/16<br>14  | 11/16<br>18 | 311/16<br>94 | 1.6890<br>42.9 | 0.6890<br>17.5 | 1.0000<br>25.4 | 1/2             | BUC 207-20<br>207-22<br>207<br>207-23 | TP 207                                          | 1.7           |     |
| BUCTP 208-24<br>208                               | 11/2                           | 40         | 115/16<br>49.2        | 71/4<br>184    | 57/16<br>137  | 21/8<br>54    | 23/32<br>18  | 9/16<br>14  | 25/32<br>20 | 329/32<br>99 | 1.9370<br>49.2 | 0.7480<br>19.0 | 1.1890<br>30.2 | 1/2             | BUC 208-24<br>208                     | TP 208                                          | 2.2           |     |





# Stainless Steel Bearing Inserts



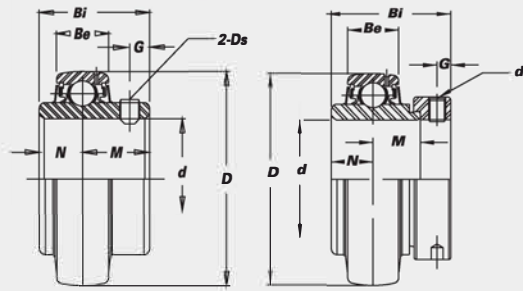
**B-type Seal**

B-type seal available in all styles and sizes.



**L3-type Seal**

L3-type seal available in SUC units only. Limited sizes. Consult IPTCI for speed limitations.



**SUC**

**SNA**

## SUC Set Screw Lock

## SNA with Eccentric Locking Collar

|                           |                       |
|---------------------------|-----------------------|
| Balls & Rings             | 440 Stainless Steel   |
| Seal                      | Silicone Rubber       |
| Seal Frame & Slinger      | 302 Stainless Steel   |
| Retainer                  | 302 Stainless Steel   |
| Set Screws                | 410 Stainless Steel   |
| Locking Collar (SNA only) | 304 Stainless Steel   |
| Lubrication               | H-1 Food Grade Grease |

| Bearing No. | Bore Dia. of Bearing |      | Dimensions (in.) (mm) |    |    |   |   |   |          | Basic Load Rating (lbs.) | Basic Static Load Rating (lbs.) | Weight (lbs.) |
|-------------|----------------------|------|-----------------------|----|----|---|---|---|----------|--------------------------|---------------------------------|---------------|
|             | d                    |      | D                     | Bi | Be | N | M | G | Ds (In.) |                          |                                 |               |
|             | (in.)                | (mm) |                       |    |    |   |   |   |          |                          |                                 |               |

### SUC with Set Screw Lock

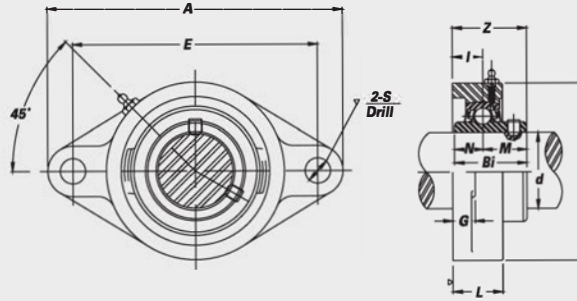
|            |         |    |        |        |        |        |        |        |            |       |       |      |
|------------|---------|----|--------|--------|--------|--------|--------|--------|------------|-------|-------|------|
| SUC 201-8  | 1/2     |    |        |        |        |        |        |        |            |       |       | 0.46 |
| 202-10     | 5/8     |    | 1.8504 | 1.2205 | 0.6299 | 0.5000 | 0.7205 | 0.1969 | 1/4-28UNF  | 2,440 | 1,220 | 0.42 |
| 204-12     | 3/4     |    | 47.0   | 31.0   | 16.0   | 12.7   | 18.3   | 5.0    |            |       |       | 0.35 |
| 204        |         | 20 |        |        |        |        |        |        |            |       |       | 0.35 |
| SUC 205-14 | 7/8     |    | 2.0472 | 1.3386 | 0.6693 | 0.5630 | 0.7756 | 0.2165 | 1/4-28UNF  | 2,670 | 1,440 | 0.51 |
| 205        |         | 25 | 52.0   | 34.0   | 17.0   | 14.3   | 19.7   | 5.5    |            |       |       | 0.44 |
| 205-16     | 1       |    |        |        |        |        |        |        |            |       |       | 0.44 |
| SUC 206-18 | 1 1/8   |    | 2.4409 | 1.5000 | 0.7480 | 0.6260 | 0.8740 | 0.2362 | 1/4-28UNF  | 3,710 | 2,020 | 0.75 |
| 206        |         | 30 | 62.0   | 38.1   | 19.0   | 15.9   | 22.2   | 6.0    |            |       |       | 0.71 |
| 206-19     | 1 3/16  |    |        |        |        |        |        |        |            |       |       | 0.71 |
| 206-20     | 1 1/4S  |    |        |        |        |        |        |        |            |       |       | 0.71 |
| SUC 207-20 | 1 1/4   |    | 2.8346 | 1.6890 | 0.7874 | 0.6890 | 1.0000 | 0.2559 | 5/16-24UNF | 4,930 | 2,780 | 1.19 |
| 207-21     | 1 5/16  |    | 72.0   | 42.9   | 20.0   | 17.5   | 25.4   | 6.5    |            |       |       | 1.12 |
| 207-22     | 1 3/8   |    |        |        |        |        |        |        |            |       |       | 1.06 |
| 207        |         | 35 |        |        |        |        |        |        |            |       |       | 1.06 |
| 207-23     | 1 7/16  |    |        |        |        |        |        |        |            |       |       | 0.99 |
| SUC 208-24 | 1 1/2   |    | 3.1496 | 1.9370 | 0.8268 | 0.7480 | 1.1890 | 0.3150 | 5/16-24UNF | 5,660 | 3,300 | 1.50 |
| 208        |         | 40 | 80.0   | 49.2   | 21.0   | 19.0   | 30.2   | 8.0    |            |       |       | 1.41 |
| SUC 209-27 | 1 11/16 |    | 3.3465 | 1.9370 | 0.8661 | 0.7480 | 1.1890 | 0.3150 | 5/16-24UNF | 6,230 | 3,680 | 1.63 |
| 209-28     | 1 3/4   |    | 85.0   | 49.2   | 22.0   | 19.0   | 30.2   | 8.0    |            |       |       | 1.54 |
| 209        |         | 45 |        |        |        |        |        |        |            |       |       | 1.50 |
| SUC 210-31 | 1 5/8   |    | 3.5433 | 2.0315 | 0.9449 | 0.7480 | 1.2835 | 0.3543 | 3/8-24UNF  | 6,590 | 4,070 | 1.81 |
| 210        |         | 50 | 90.0   | 51.6   | 24.0   | 19.0   | 32.6   | 9.0    |            |       |       | 1.76 |
| 210-32     | 2S      |    |        |        |        |        |        |        |            |       |       | 1.66 |
| SUC 211-32 | 2       |    | 3.9370 | 2.1890 | 0.9843 | 0.8740 | 1.3150 | 0.3543 | 3/8-24UNF  | 7,780 | 4,890 | 2.78 |
| 211        |         | 55 | 100.0  | 55.6   | 25.0   | 22.2   | 33.4   | 9.0    |            |       |       | 2.45 |
| 211-35     | 2 3/16  |    |        |        |        |        |        |        |            |       |       | 2.40 |
| SUC 212-36 | 2 1/4   |    | 4.3307 | 2.5630 | 1.0630 | 1.0000 | 1.5630 | 0.4134 | 3/8-24UNF  | 8,910 | 5,870 | 3.68 |
| 212        |         | 60 | 110.0  | 65.1   | 27.0   | 25.4   | 39.7   | 10.5   |            |       |       | 3.40 |
| 212-39     | 2 7/16  |    |        |        |        |        |        |        |            |       |       | 3.20 |

### SNA with Eccentric Locking Collar

|            |        |    |        |        |        |        |        |        |            |       |       |      |
|------------|--------|----|--------|--------|--------|--------|--------|--------|------------|-------|-------|------|
| SNA 204-12 | 3/4    |    | 1.8504 | 1.5433 | 0.6299 | 0.5000 | 0.6693 | 0.1890 | 1/4-28UNF  | 2,440 | 1,220 | 0.45 |
| 204        |        | 20 | 47.0   | 39.2   | 16.0   | 12.7   | 17.0   | 4.8    |            |       |       | 0.43 |
| SNA 205-14 | 7/8    |    | 2.0472 | 1.6220 | 0.6693 | 0.5630 | 0.6850 | 0.1890 | 1/4-28UNF  | 2,670 | 1,440 | 0.58 |
| 205        |        | 25 | 52.0   | 41.2   | 17.0   | 14.3   | 17.4   | 4.8    |            |       |       | 0.49 |
| 205-16     | 1      |    |        |        |        |        |        |        |            |       |       | 0.49 |
| SNA 206-18 | 1 1/8  |    | 2.4409 | 1.8110 | 0.7480 | 0.6260 | 0.7165 | 0.2362 | 5/16-24UNF | 3,710 | 2,020 | 0.89 |
| 206        |        | 30 | 62.0   | 46.0   | 19.0   | 15.9   | 18.2   | 6.0    |            |       |       | 0.84 |
| 206-19     | 1 3/16 |    |        |        |        |        |        |        |            |       |       | 0.84 |
| 206-20     | 1 1/4S |    |        |        |        |        |        |        |            |       |       | 0.76 |
| SNA 207-20 | 1 1/4  |    | 2.8346 | 1.9606 | 0.7874 | 0.6890 | 0.7402 | 0.2677 | 5/16-24UNF | 4,930 | 2,780 | 1.44 |
| 207-22     | 1 3/8  |    | 72.0   | 49.8   | 20.0   | 17.5   | 18.8   | 6.8    |            |       |       | 1.28 |
| 207        |        | 35 |        |        |        |        |        |        |            |       |       | 1.28 |
| 207-23     | 1 7/16 |    |        |        |        |        |        |        |            |       |       | 1.22 |
| SNA 208-24 | 1 1/2  |    | 3.1496 | 2.1220 | 0.8268 | 0.7480 | 0.8425 | 0.2677 | 5/16-24UNF | 5,660 | 3,300 | 1.75 |
| 208        |        | 40 | 80.0   | 53.9   | 21.0   | 19.0   | 21.4   | 6.8    |            |       |       | 1.64 |
| SNA 209-28 | 1 3/4  |    | 3.3465 | 2.1220 | 0.8661 | 0.7480 | 0.8425 | 0.2677 | 5/16-24UNF | 6,230 | 3,680 | 1.83 |
|            |        |    | 85.0   | 53.9   | 22.0   | 19.0   | 21.4   | 6.8    |            |       |       |      |
| SNA 210-31 | 1 5/8  |    | 3.5433 | 2.2480 | 0.9449 | 0.7480 | 0.9685 | 0.2677 | 5/16-24UNF | 6,590 | 4,070 | 2.19 |
| 210-32     | 2S     |    | 90.0   | 57.1   | 24.0   | 19.0   | 24.6   | 6.8    |            |       |       | 2.07 |

CORROSION RESISTANT

# Thermoplastic 2-Bolt Flanges



**With Set Screw Lock**  
**Optional bearing inserts:**  
 Stainless Steel-SUCTFL  
 Hard Chrome Coated-CUCTFL  
 Black Oxide-BUCTFL

• End Caps Available for all styles.



B-type Seal



L3-type Seal

B-type seal available in all styles and sizes.

L3-type seal available in SUC units only. Limited sizes. Consult IPTCI for speed limitations.

CORROSION RESISTANT

| Unit No. | Shaft Dia. | Dimensions (in.) (mm) |   |   |   |   |   |   |   |    |   |   | Bolt Used | Bearing No. | Housing No. | Weight (lbs.) |
|----------|------------|-----------------------|---|---|---|---|---|---|---|----|---|---|-----------|-------------|-------------|---------------|
|          | d          | A                     | E | I | G | L | S | B | Z | Bi | N | M |           |             |             |               |
|          | (in.) (mm) |                       |   |   |   |   |   |   |   |    |   |   | (in.)     |             |             |               |

## SUCTFL with Stainless Steel Bearing Inserts

|               |         |    |         |         |       |       |         |       |         |        |        |        |        |            |         |     |
|---------------|---------|----|---------|---------|-------|-------|---------|-------|---------|--------|--------|--------|--------|------------|---------|-----|
| SUCTFL 201-8  | 1/2     |    |         |         |       |       |         |       |         |        |        |        |        | SUC 201-8  |         |     |
| 202-10        | 5/8     |    |         |         |       |       |         |       |         |        |        |        |        | 202-10     |         |     |
| 204-12        | 3/4     |    |         |         |       |       |         |       |         |        |        |        |        | 204-12     |         |     |
| 204           |         | 20 | 47/16   | 317/32  | 39/64 | 7/16  | 11/32   | 7/16  | 217/32  | 121/64 | 1.2205 | 0.5000 | 0.7205 | 3/8        | TFL 204 | .5  |
| 205-14        | 7/8     |    |         |         |       |       |         |       |         |        |        |        |        | SUC 205-14 |         |     |
| 205           |         | 25 | 51/8    | 357/64  | 43/64 | 17/32 | 15/32   | 7/16  | 23/4    | 17/16  | 1.3386 | 0.5630 | 0.7756 | 3/8        | TFL 205 | .7  |
| 205-16        | 1       |    | 130     | 98.8    | 17    | 13    | 29      | 11    | 70      | 36.5   | 34.0   | 14.3   | 19.7   | 205-16     |         |     |
| SUCTFL 206-18 | 1 1/8   |    |         |         |       |       |         |       |         |        |        |        |        | SUC 206-18 |         |     |
| 206           |         | 30 | 5 13/16 | 419/32  | 3/4   | 17/32 | 17/32   | 7/16  | 35/32   | 139/64 | 1.5000 | 0.6260 | 0.8740 | 3/8        | TFL 206 | 1.1 |
| 206-19        | 1 3/16  |    | 148     | 116.7   | 19    | 13    | 31      | 11    | 80      | 40.9   | 38.1   | 15.9   | 22.2   | 206-19     |         |     |
| 206-20        | 1 1/4 S |    |         |         |       |       |         |       |         |        |        |        |        | 206-20     |         |     |
| SUCTFL 207-20 | 1 1/4   |    |         |         |       |       |         |       |         |        |        |        |        | SUC 207-20 |         |     |
| 207-21        | 1 5/16  |    |         |         |       |       |         |       |         |        |        |        |        | 207-21     |         |     |
| 207-22        | 1 3/8   |    | 6 15/32 | 5 1/8   | 23/32 | 5/8   | 19/32   | 39/64 | 317/32  | 123/32 | 1.6890 | 0.6890 | 1.0000 | 1/2        | TFL 207 | 1.5 |
| 207           |         | 35 | 164     | 130.2   | 18    | 16    | 33      | 13    | 90      | 43.7   | 42.9   | 17.5   | 25.4   | 207-22     |         |     |
| 207-23        | 1 7/16  |    |         |         |       |       |         |       |         |        |        |        |        | 207-23     |         |     |
| SUCTFL 208-24 | 1 1/2   |    |         |         |       |       |         |       |         |        |        |        |        | SUC 208-24 |         |     |
| 208           |         | 40 | 6 7/8   | 5 21/32 | 27/32 | 25/32 | 1 15/32 | 35/64 | 3 15/16 | 23/64  | 1.9370 | 0.7480 | 1.1890 | 1/2        | TFL 208 | 2.0 |
|               |         |    | 175     | 143.7   | 21    | 20    | 37      | 14    | 100     | 52.0   | 49.2   | 19.0   | 30.2   | 208        |         |     |

## CUCTFL with Hard Chrome Coated Bearing Inserts

|               |         |    |         |         |       |       |         |       |         |        |        |        |        |            |         |     |
|---------------|---------|----|---------|---------|-------|-------|---------|-------|---------|--------|--------|--------|--------|------------|---------|-----|
| CUCTFL 204-12 | 3/4     |    |         |         |       |       |         |       |         |        |        |        |        | CUC 204-12 |         |     |
| 204           |         | 20 | 47/16   | 317/32  | 39/64 | 7/16  | 11/32   | 7/16  | 217/32  | 121/64 | 1.2205 | 0.5000 | 0.7205 | 3/8        | TFL 204 | .5  |
|               |         |    | 113     | 89.7    | 15    | 11    | 26      | 11    | 64      | 33.7   | 31.0   | 12.7   | 18.3   |            |         |     |
| CUCTFL 205-14 | 7/8     |    |         |         |       |       |         |       |         |        |        |        |        | CUC 205-14 |         |     |
| 205           |         | 25 | 51/8    | 357/64  | 43/64 | 17/32 | 15/32   | 7/16  | 23/4    | 17/16  | 1.3386 | 0.5630 | 0.7756 | 3/8        | TFL 205 | .7  |
| 205-16        | 1       |    | 130     | 98.8    | 17    | 13    | 29      | 11    | 70      | 36.5   | 34.0   | 14.3   | 19.7   | 205-16     |         |     |
| CUCTFL 206-18 | 1 1/8   |    |         |         |       |       |         |       |         |        |        |        |        | CUC 206-18 |         |     |
| 206           |         | 30 | 5 13/16 | 419/32  | 3/4   | 17/32 | 17/32   | 7/16  | 35/32   | 139/64 | 1.5000 | 0.6260 | 0.8740 | 3/8        | TFL 206 | 1.1 |
| 206-19        | 1 3/16  |    | 148     | 116.7   | 19    | 13    | 31      | 11    | 80      | 40.9   | 38.1   | 15.9   | 22.2   | 206-19     |         |     |
| 206-20        | 1 1/4 S |    |         |         |       |       |         |       |         |        |        |        |        | 206-20     |         |     |
| CUCTFL 207-20 | 1 1/4   |    |         |         |       |       |         |       |         |        |        |        |        | CUC 207-20 |         |     |
| 207-22        | 1 3/8   |    | 6 15/32 | 5 1/8   | 23/32 | 5/8   | 19/32   | 39/64 | 317/32  | 123/32 | 1.6890 | 0.6890 | 1.0000 | 1/2        | TFL 207 | 1.5 |
| 207           |         | 35 | 164     | 130.2   | 18    | 16    | 33      | 13    | 90      | 43.7   | 42.9   | 17.5   | 25.4   | 207-22     |         |     |
| 207-23        | 1 7/16  |    |         |         |       |       |         |       |         |        |        |        |        | 207-23     |         |     |
| CUCTFL 208-24 | 1 1/2   |    |         |         |       |       |         |       |         |        |        |        |        | CUC 208-24 |         |     |
| 208           |         | 40 | 6 7/8   | 5 21/32 | 27/32 | 25/32 | 1 15/32 | 35/64 | 3 15/16 | 23/64  | 1.9370 | 0.7480 | 1.1890 | 1/2        | TFL 208 | 2.0 |
|               |         |    | 175     | 143.7   | 21    | 20    | 37      | 14    | 100     | 52.0   | 49.2   | 19.0   | 30.2   | 208        |         |     |

## BUCTFL with Black Oxide Bearing Inserts

|               |         |    |         |         |       |       |         |       |         |        |        |        |        |            |         |     |
|---------------|---------|----|---------|---------|-------|-------|---------|-------|---------|--------|--------|--------|--------|------------|---------|-----|
| BUCTFL 201-8  | 1/2     |    |         |         |       |       |         |       |         |        |        |        |        | BUC 201-8  |         |     |
| 202-10        | 5/8     |    |         |         |       |       |         |       |         |        |        |        |        | 202-10     |         |     |
| 204-12        | 3/4     |    |         |         |       |       |         |       |         |        |        |        |        | 204-12     |         |     |
| 204           |         | 20 | 47/16   | 317/32  | 39/64 | 7/16  | 11/32   | 7/16  | 217/32  | 121/64 | 1.2205 | 0.5000 | 0.7205 | 3/8        | TFL 204 | .5  |
|               |         |    | 113     | 89.7    | 15    | 11    | 26      | 11    | 64      | 33.7   | 31.0   | 12.7   | 18.3   |            |         |     |
| BUCTFL 205-14 | 7/8     |    |         |         |       |       |         |       |         |        |        |        |        | BUC 205-14 |         |     |
| 205           |         | 25 | 51/8    | 357/64  | 43/64 | 17/32 | 15/32   | 7/16  | 23/4    | 17/16  | 1.3386 | 0.5630 | 0.7756 | 3/8        | TFL 205 | .7  |
| 205-16        | 1       |    | 130     | 98.8    | 17    | 13    | 29      | 11    | 70      | 36.5   | 34.0   | 14.3   | 19.7   | 205-16     |         |     |
| BUCTFL 206-18 | 1 1/8   |    |         |         |       |       |         |       |         |        |        |        |        | BUC 206-18 |         |     |
| 206           |         | 30 | 5 13/16 | 419/32  | 3/4   | 17/32 | 17/32   | 7/16  | 35/32   | 139/64 | 1.5000 | 0.6260 | 0.8740 | 3/8        | TFL 206 | 1.1 |
| 206-19        | 1 3/16  |    | 148     | 116.7   | 19    | 13    | 31      | 11    | 80      | 40.9   | 38.1   | 15.9   | 22.2   | 206-19     |         |     |
| 206-20        | 1 1/4 S |    |         |         |       |       |         |       |         |        |        |        |        | 206-20     |         |     |
| BUCTFL 207-20 | 1 1/4   |    |         |         |       |       |         |       |         |        |        |        |        | BUC 207-20 |         |     |
| 207-22        | 1 3/8   |    | 6 15/32 | 5 1/8   | 23/32 | 5/8   | 19/32   | 39/64 | 317/32  | 123/32 | 1.6890 | 0.6890 | 1.0000 | 1/2        | TFL 207 | 1.5 |
| 207           |         | 35 | 164     | 130.2   | 18    | 16    | 33      | 13    | 90      | 43.7   | 42.9   | 17.5   | 25.4   | 207-22     |         |     |
| 207-23        | 1 7/16  |    |         |         |       |       |         |       |         |        |        |        |        | 207-23     |         |     |
| BUCTFL 208-24 | 1 1/2   |    |         |         |       |       |         |       |         |        |        |        |        | BUC 208-24 |         |     |
| 208           |         | 40 | 6 7/8   | 5 21/32 | 27/32 | 25/32 | 1 15/32 | 35/64 | 3 15/16 | 23/64  | 1.9370 | 0.7480 | 1.1890 | 1/2        | TFL 208 | 2.0 |
|               |         |    | 175     | 143.7   | 21    | 20    | 37      | 14    | 100     | 52.0   | 49.2   | 19.0   | 30.2   | 208        |         |     |

# Bearing Selection

## Load Capacities & Life Calculations

Simple life/load estimations can be derived from the Radial Load chart shown on page 86. However, if a more specific estimation is desired, the life of a bearing can be calculated by the following formula:

$$L_{10h} = \left( \frac{C}{P} \right)^3 \times \frac{16,667}{n}$$

### Where:

L<sub>10h</sub> = Life hours

C = Basic Load Rating (lbf)

P = Equivalent Radial Load (lbf)

n = Speed (RPM)

See Page 86, or individual bearing pages for Basic Load Ratings.

L<sub>10h</sub> equals the number of hours that 90% of an identical sample group, operating under identical and ideal conditions, will operate without failure. Since actual field conditions seldom, if ever, match the ideal conditions used in the calculation of L<sub>10h</sub>, compensation for slip fit (most mounted bearings), dust, vibration, and shock loading must be considered. Since most **IPTCI** products are mounted units, it is helpful then to adjust the L<sub>10h</sub> number by .46 for slip fit applications and further reduce this number by 50-70% to compensate for other operating conditions.

### Example:

Bearing: UCP205-16 – with slip fit on to ground shafting.

Application: Farm equipment experiencing variable shock loading.

L<sub>10h</sub> = 10,000 hours

Adjustment would be: 10,000 x .46 x .3 = 1,380 hours

Light and or infrequent vibration/shock loading may not require as much adjustment; however, **IPTCI** always recommends very generous safety factors for maximum bearing longevity. Additional adjustment may also be required if the bearing is directly exposed to heavy contaminants. The seal type will then influence the amount of this additional adjustment. It is assumed that the bearing will be operated within the confines of its published temperature limits, and that it will be relubricated properly.

**Note:** Caution is advised if in the use of the L<sub>10</sub> formula, extremely high or low hours are derived.

## Thrust

The above calculations assume that there is no consequential thrust load present; therefore, the actual radial load equals the Equivalent Radial Load. It is important to note, however, that thrust, or axial force can dramatically affect the life of a mounted ball bearing. It is also significant to note that, outside of ideal testing conditions, and without field experience, many thrust applications are difficult to realistically quantify. Therefore, as thrust exceeds approximately 25% of the Basic Load Rating, or there exists a combination of thrust and speed, please contact **IPTCI** for technical assistance.



# Bearing Inserts\* • Radial Load Chart

| Bearing Numbers                                |                                                |                                                |                                                |                                                |                                      | Basic Load Rating @ 33⅓ RPM | Radial Load Rating in Pounds at Various RPM Based on 500 Hours Minimum Life |        |        |        |        |      |      |      |      |      |      |  |
|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|--------------------------------------|-----------------------------|-----------------------------------------------------------------------------|--------|--------|--------|--------|------|------|------|------|------|------|--|
| Normal Duty                                    |                                                |                                                | Light Duty                                     |                                                | Medium Duty                          |                             | 50                                                                          | 100    | 200    | 300    | 500    | 900  | 1200 | 1500 | 1800 | 2400 | 3600 |  |
| UC/UCW                                         | NA/NAW                                         | ER                                             | SA                                             | SB                                             | UCX                                  |                             |                                                                             |        |        |        |        |      |      |      |      |      |      |  |
| UCW 201<br>201-8                               | NAW 201<br>201-8                               |                                                | SA 201<br>201-8                                | SB 201<br>201-8                                |                                      |                             |                                                                             |        |        |        |        |      |      |      |      |      |      |  |
| UCW 202<br>202-10                              | NAW 202<br>202-10                              | —                                              | SA 202<br>202-10                               | SB 202<br>202-10                               | —                                    | 2040                        | 1780                                                                        | 1415   | 1120   | 980    | 830    | 680  | 620  | 575  | 540  | 490  | 425  |  |
| UCW 203                                        | NAW 203                                        |                                                | SA 203                                         | SB 203                                         |                                      |                             |                                                                             |        |        |        |        |      |      |      |      |      |      |  |
| UC 201<br>201-8                                | NA 201<br>201-8                                | ER 201<br>201-8                                |                                                |                                                |                                      |                             |                                                                             |        |        |        |        |      |      |      |      |      |      |  |
| UC 202<br>202-10                               | NA 202<br>202-10                               | ER 202<br>202-10                               |                                                |                                                | —                                    | 2740                        | 2390                                                                        | 1890   | 1510   | 1320   | 1110   | 910  | 835  | 770  | 725  | 655  | 575  |  |
| UC 203                                         | NA 203                                         | ER 203                                         | SA 204-12<br>204                               | SB 204-12<br>204                               |                                      |                             |                                                                             |        |        |        |        |      |      |      |      |      |      |  |
| UC 204-12<br>204                               | NA 204-12<br>204                               | ER 204-12<br>204                               |                                                |                                                |                                      |                             |                                                                             |        |        |        |        |      |      |      |      |      |      |  |
| UC 205-14<br>205-15<br>205-16                  | NA 205-14<br>205-15<br>205-16                  | ER 205-14<br>205-15<br>205-16                  | SA 205-14<br>205-15<br>205-16                  | SB 205-14<br>205-15<br>205-16                  | —                                    | 3010                        | 2625                                                                        | 2085   | 1650   | 1450   | 1210   | 1000 | 915  | 845  | 800  | 725  | 630  |  |
| UC 206-17<br>206-18<br>206<br>206-19<br>206-20 | NA 206-17<br>206-18<br>206<br>206-19<br>206-20 | ER 206-17<br>206-18<br>206<br>206-19<br>206-20 | SA 206-17<br>206-18<br>206<br>206-19<br>206-20 | SB 206-17<br>206-18<br>206<br>206-19<br>206-20 | UC X05-14<br>X05-15<br>X05<br>X05-16 | 4200                        | 3670                                                                        | 2910   | 2290   | 2010   | 1695   | 1390 | 1265 | 1170 | 1100 | 990  | 860  |  |
| UC 207-20<br>207-21<br>207-22<br>207<br>207-23 | NA 207-20<br>207-21<br>207-22<br>207<br>207-23 | ER 207-20<br>207-21<br>207-22<br>207<br>207-23 | SA 207-20<br>207-21<br>207-22<br>207<br>207-23 | SB 207-20<br>207-21<br>207-22<br>207<br>207-23 | UC X06-18<br>X06<br>X06-19<br>X06-20 | 5535                        | 4820                                                                        | 3850   | 3050   | 2680   | 2250   | 1850 | 1680 | 1560 | 1420 | 1325 | 1155 |  |
| UC 208-24<br>208-25<br>208                     | NA 208-24<br>208-25<br>208                     | ER 208-24<br>208-25<br>208                     | SA 208-24<br>208-25<br>208                     | SB 208-24<br>208-25<br>208                     | UC X07-22<br>X07<br>X07-23           | 6375                        | 5560                                                                        | 4410   | 3490   | 3040   | 2550   | 2100 | 1895 | 1755 | 1655 | 1505 | —    |  |
| UC 209-26<br>209-27<br>209-28<br>209           | NA 209-26<br>209-27<br>209-28<br>209           | ER 209-26<br>209-27<br>209-28<br>209           | SA 209-26<br>209-27<br>209-28<br>209           | —                                              | UC X08-24<br>X08                     | 7110                        | 6210                                                                        | 4915   | 3910   | 3400   | 2880   | 2355 | 2150 | 1990 | 1875 | 1700 | —    |  |
| UC 210-30<br>210-31<br>210<br>210-32           | NA 210-30<br>210-31<br>210<br>210-32           | ER 210-30<br>210-31<br>210<br>210-32           | SA 210-30<br>210-31<br>210<br>210-32           | —                                              | UC X09-26<br>X09-27<br>X09-28<br>X09 | 7400                        | 6465                                                                        | 5140   | 4075   | 3560   | 3000   | 2460 | 2240 | 2075 | 1970 | 1740 | —    |  |
| UC 211-32<br>211-34<br>211<br>211-35           | NA 211-32<br>211-34<br>211<br>211-35           | ER 211-32<br>211-34<br>211<br>211-35           | SA 211-32<br>211-34<br>211<br>211-35           | —                                              | UC X10-30<br>X10-31<br>X10<br>X10-32 | 9490                        | 8290                                                                        | 6575   | 5220   | 4560   | 3825   | 3140 | 2840 | 2635 | 2460 | 2240 | —    |  |
| UC 212-36<br>212<br>212-38<br>212-39           | NA 212-36<br>212<br>212-38<br>212-39           | ER 212-36<br>212<br>212-38<br>212-39           | —                                              | —                                              | UC X11-34<br>X11<br>X11-35<br>X11-36 | 11,500                      | 10,050                                                                      | 7965   | 6335   | 5525   | 4655   | 3775 | 3450 | 3200 | 3000 | —    | —    |  |
| UC 213-40<br>213                               | NA 213-40<br>213                               | —                                              | —                                              | —                                              | UC X12<br>X12-38<br>X12-39           | 12,400                      | 10,810                                                                      | 8690   | 6860   | 6030   | 5030   | 4180 | 3780 | 3470 | 3260 | —    | —    |  |
| UC 214-44<br>214                               | NA 214-44<br>214                               | —                                              | —                                              | —                                              | UC X13-40<br>X13                     | 13,530                      | 11,820                                                                      | 9450   | 7480   | 6480   | 5520   | 4540 | 4110 | 3820 | 3510 | —    | —    |  |
| UC 215-47<br>215<br>215-48                     | NA 215-47<br>215<br>215-48                     | ER 215-47<br>215<br>215-48                     | —                                              | —                                              | UC X14-44<br>X14                     | 14,620                      | 12,745                                                                      | 10,210 | 8100   | 7090   | 5980   | 4900 | 4400 | 4110 | 3860 | —    | —    |  |
| UC 216                                         | —                                              | —                                              | —                                              | —                                              | UC X15-47<br>X15<br>X15-48           | 15,970                      | 13,950                                                                      | 11,070 | 8160   | 6470   | 5650   | 5150 | 4840 | 4490 | 4200 | —    | —    |  |
| UC 218-56<br>218                               | —                                              | —                                              | —                                              | —                                              | UC X17<br>X17-55<br>X17-56           | 21,120                      | 18,460                                                                      | 14,650 | 10,780 | 8560   | 7480   | 6800 | 6400 | 5940 | —    | —    | —    |  |
| —                                              | —                                              | —                                              | —                                              | —                                              | UC X20<br>X20-63<br>X20-64           | 29,300                      | 25,600                                                                      | 20,300 | 16100  | 14,100 | 11,900 | 9770 | 8870 | —    | —    | —    | —    |  |

\*52100 Bearing Steel Only

## Shaft Tolerances

| Shaft Diameter  | Shaft Tolerance     |
|-----------------|---------------------|
| 1/2" - 1 15/16" | Nominal to - .0005" |
| 2" - 3 3/16"    | Nominal to - .0010" |
| 3 1/4" - Up     | Nominal to - .0015" |

For maximum life, **IPTCI** recommends a fit as close to nominal as possible. Turned and ground shafting is also beneficial as it tends to be rounder, straighter and free of burrs or other flaws.

## Mounting Instructions

When mounting, always clean shafting and bearing bore. Then, having coated the shaft with a light oil, slide the bearing unit on the shaft to its correct position. It may be necessary to use a soft mallet and/or pipe, on the inner ring only, to reach the correct position. Never pound on, or apply pressure to, the outside ring! Once the bearing unit is in position, precise alignment can be achieved by first fixing the housing in place, then simultaneously rotating and tapping the shaft with a soft mallet. This should be accomplished before any locking collar or set screw is tightened.

When mounting a locking collar bearing, use a spanner wrench or punch to lock the collar in place — always in the direction of shaft rotation. Then tighten set screw. Do not use locking collar bearings for bi-directional applications.

When mounting set screw locking bearings we recommend the following torque settings:

### Mild steel set screws - for standard bearing inserts

| Set Screw Size | Max. Recommended Torque (in./lbs.) |
|----------------|------------------------------------|
| 10-32          | 28                                 |
| 1/4 - 28       | 66                                 |
| 5/16 - 24      | 126                                |
| 3/8 - 24       | 228                                |
| 7/16 - 20      | 306                                |
| 1/2 - 20       | 330                                |

### 400 series stainless set screws for SUC, SUCX, SSB, SNA & CUC bearing inserts

| Set Screw Size | Max. Recommended Torque (in./lbs.) |
|----------------|------------------------------------|
| 1/4 - 28       | 54                                 |
| 5/16 - 24      | 110                                |
| 3/8 - 24       | 205                                |

## Lubrication

All IPTCI bearing units are factory prelubricated and, therefore, do not require supplemental grease before service life begins. Relubrication, when administered correctly, can increase the life of a bearing substantially. IPTCI recommends the following general guidelines to maximize your bearing life:

| RPM   | Temperature    | Environmental Condition | Interval            |
|-------|----------------|-------------------------|---------------------|
| 100   | 32° F - 120° F | Clean                   | 6-12 months         |
| 500   | 32° F - 150° F | Clean                   | 2-6 months          |
| 1,000 | 32° F - 210° F | Clean                   | 2 weeks to 2 months |
| 1,500 | Over 210° F    | Clean                   | Daily to weekly     |
| Any   | 32°F - 150° F  | Dirty                   | Weekly to monthly   |
| Any   | Over 150° F    | Dirty                   | Daily to 2 weeks    |
| Any   | Any Temp.      | Very Dirty              | Daily to weekly     |
| Any   | Any Temp.      | Extremely Dirty         | Daily to weekly     |

### NOTE:

Overlubrication is a major cause of bearing failures. Please relubricate conservatively when unsure of bearing requirements.

When selecting a bearing lubricant, **IPTCI** suggests any lithium-based NLGI #2 grease. For operating temperatures higher than 210° F, please consult **IPTCI**.

## BEARING INSERTS

### BEARING INSERTS

#### SET SCREW LOCKING ▪ GREASABLE ▪ WIDE INNER RACE ▪ SPHERICAL OUTER RACE

Please note: The following lists are only a listing of our stock bearings. Please see the previous pages for technical info and for a listing of what IPTCI stocks.



| Part #    | IPTCI Part # | Bore Size | Part #   | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|----------|--------------|-----------|
| BUCW20210 | UCW202-10    | 5/8       | BUC20926 | UC209-26     | 1-5/8     |
| BUC20108  | UC201-08     | 1/2       | BUC20928 | UC209-28     | 1-3/4     |
| BUC20210  | UC202-10     | 5/8       | BUC21030 | UC210-30     | 1-7/8     |
| BUC20412  | UC204-12     | 3/4       | BUC21031 | UC210-31     | 1-15/16   |
| BUC20514  | UC205-14     | 7/8       | BUC21032 | UC210-32     | 2         |
| BUC20515  | UC205-15     | 15/16     | BUC21132 | UC211-32     | 2         |
| BUC20516  | UC205-16     | 1         | BUC21135 | UC211-35     | 2-3/16    |
| BUC20617  | UC206-17     | 1-1/16    | BUC21236 | UC212-36     | 2-1/4     |
| BUC20618  | UC206-18     | 1-1/8     | BUC21238 | UC212-38     | 2-3/8     |
| BUC20619  | UC206-19     | 1-3/16    | BUC21239 | UC212-39     | 2-7/16    |
| BUC20620  | UC206-20     | 1-1/4     | BUC21340 | UC213-40     | 2-1/2     |
| BUC20720  | UC207-20     | 1-1/4     | BUC21444 | UC214-44     | 2-3/4     |
| BUC20721  | UC207-21     | 1-5/16    | BUC21547 | UC215-47     | 2-15/16   |
| BUC20722  | UC207-22     | 1-3/8     | BUC21548 | UC215-48     | 3         |
| BUC20723  | UC207-23     | 1-7/16    |          |              |           |
| BUC20824  | UC208-24     | 1-1/2     |          |              |           |

Discounts for IPTCI bearings come at 50 pieces and 100 pieces.

#### ECCENTRIC LOCKING COLLAR ▪ NON-GREASABLE ▪ NARROW INNER RACE ▪ CYLINDRICAL OUTER RACE



| Part #    | IPTCI Part # | Bore Size | Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|-----------|--------------|-----------|
| BCSA20108 | CSA201-8     | 1/2       | BCSA20619 | CSA206-19    | 1-3/16    |
| BCSA20210 | CSA202-10    | 5/8       | BCSA20620 | CSA206-20    | 1-1/4     |
| BCSA20412 | CSA204-12    | 3/4       | BCSA20720 | CSA207-20    | 1-1/4     |
| BCSA20514 | CSA205-14    | 7/8       | BCSA20722 | CSA207-22    | 1-3/8     |
| BCSA20516 | CSA205-16    | 1         | BCSA20723 | CSA207-23    | 1-7/16    |
| BCSA20618 | CSA206-18    | 1-1/8     | BCSA20824 | CSA208-24    | 1-1/2     |

## SET SCREW LOCKING • GREASABLE • WIDE INNER RACE • SPHERICAL OUTER RACE • TRIPLE LIP SEALS

| Part #     | IPTCI Part # | Bore Size |
|------------|--------------|-----------|
| BUC20516L3 | UC205-16 L3  | 1         |
| BUC20620L3 | UC206-20 L3  | 1-1/4     |
| BUC20722L3 | UC207-22 L3  | 1-3/8     |
| BUC20824L3 | UC208-24L3   | 1-1/2     |
| BUC20928L3 | UC209-28L3   | 1-3/4     |
| BUC21031L3 | UC210-31L3   | 1-15/16   |



## SET SCREW LOCKING • GREASABLE • WIDE INNER RACE • SPHERICAL OUTER RACE • STAINLESS STEEL

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BSUC20516 | SUC205-16    | 1         |



## SET SCREW LOCKING • GREASABLE • WIDE INNER RACE • SPHERICAL OUTER RACE • METRIC

| Part # | IPTCI Part # | Bore Size |
|--------|--------------|-----------|
| BUC206 | UC206        | 30mm      |



## ECCENTRIC LOCKING COLLAR • GREASABLE • WIDE INNER RACE • SPHERICAL OUTER RACE

| Part #    | IPTCI Part # | Bore Size | Part #   | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|----------|--------------|-----------|
| BNAW20210 | NAW202-10    | 5/8       | BNA20618 | NA206-18     | 1-1/8     |
| BNA20108  | NA201-8      | 1/2       | BNA20619 | NA206-19     | 1-3/16    |
| BNA20210  | NA202-10*    | 5/8       | BNA20620 | NA206-20     | 1-1/4     |
| BNA20412  | NA204-12     | 3/4       | BNA20720 | NA207-20     | 1-1/4     |
| BNA20514  | NA205-14     | 7/8       | BNA20721 | NA207-21*    | 1-5/16    |
| BNA20515  | NA205-15     | 15/16     | BNA20722 | NA207-22     | 1-3/8     |
| BNA20516  | NA205-16     | 1         | BNA20723 | NA207-23     | 1-7/16    |
| BNA20617  | NA206-17*    | 1-1/16    |          |              |           |

\*IPTCI brand not available. We stock AMCAN brand.



## BEARING INSERTS

### ECCENTRIC LOCKING COLLAR ▪ GREASABLE ▪ WIDE INNER RACE ▪ SPHERICAL OUTER RACE

| Part #   | IPTCI Part # | Bore Size | Part #                                            | IPTCI Part # | Bore Size |
|----------|--------------|-----------|---------------------------------------------------|--------------|-----------|
| BNA20824 | NA208-24     | 1-1/2     | BNA21032                                          | NA210-32     | 2         |
| BNA20825 | NA208-25     | 1-9/16    | BNA21132                                          | NA211-32     | 2         |
| BNA20926 | NA209-26     | 1-5/8     | BNA21135                                          | NA211-35     | 2-3/16    |
| BNA20927 | NA209-27     | 1-11/16   | BNA21236                                          | NA212-36     | 2-1/4     |
| BNA20928 | NA209-28     | 1-3/4     | BNA21238                                          | NA212-38     | 2-3/8     |
| BNA21030 | NA210-30     | 1-7/8     | BNA21239                                          | NA212-39     | 2-7/16    |
| BNA21031 | NA210-31     | 1-15/16   | *IPTCI brand not available. We stock AMCAN brand. |              |           |

### ECCENTRIC LOCKING COLLAR ▪ GREASABLE ▪ WIDE INNER RACE ▪ SPHERICAL OUTER RACE ▪ TRIPLE LIP SEALS

| Part #     | IPTCI Part # | Bore Size |
|------------|--------------|-----------|
| BNA20516L3 | NA205-16 L3  | 1         |
| BNA20620L3 | NA206-20 L3  | 1-1/4     |
| BNA20824L3 | NA208-24 L3  | 1-1/2     |



### SET SCREW LOCKING ▪ GREASABLE ▪ WIDE INNER RACE ▪ SPHERICAL OUTER RACE ▪ MEDIUM DUTY

| Part #   | IPTCI Part # | Bore Size |
|----------|--------------|-----------|
| BUCX0516 | UCX05-16     | 1         |
| BUCX0722 | UCX07-22     | 1-3/8     |
| BUCX0723 | UCX07-23     | 1-7/16    |
| BUCX1239 | UCX12-39     | 2-7/16    |



### SET SCREW LOCKING ▪ GREASABLE ▪ WIDE INNER RACE ▪ SPHERICAL OUTER RACE ▪ MEDIUM DUTY ▪ TRIPLE LIP SEALS

| Part #     | IPTCI Part # | Bore Size |
|------------|--------------|-----------|
| BUCX0824L3 | UCX08-24 L3  | 1-1/2     |



## SET SCREW LOCKING ▪ GREASABLE ▪ NARROW INNER RACE ▪ SPHERICAL OUTER RACE

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BSB20412G | SB204-12G    | 3/4       |
| BSB20514G | SB205-14G    | 7/8       |
| BSB20516G | SB205-16G    | 1         |
| BSB20618G | SB206-18G    | 1-1/8     |
| BSB20619G | SB206-19G    | 1-3/16    |
| BSB20620G | SB206-20G    | 1-1/4     |
| BSB20720G | SB207-20G    | 1-1/4     |



## ECCENTRIC LOCKING COLLAR ▪ NON-GREASABLE ▪ NARROW INNER RACE ▪ SPHERICAL OUTER RACE

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BSA20108N | SA201-8N     | 1/2       |
| BSA20210N | SA202-10N    | 5/8       |
| BSA20412N | SA204-12N    | 3/4       |
| BSA20514N | SA205-14N    | 7/8       |
| BSA20515N | SA205-15N*   | 15/16     |
| BSA20516N | SA205-16N    | 1         |
| BSA20617N | SA206-17N*   | 1-1/16    |
| BSA20618N | SA206-18N    | 1-1/8     |
| BSA20619N | SA206-19N    | 1-3/16    |
| BSA20620N | SA206-20N    | 1-1/4     |
| BSA20720N | SA207-20N    | 1-1/4     |

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BSA20721N | SA207-21N*   | 1-5/16    |
| BSA20722N | SA207-22N    | 1-3/8     |
| BSA20723N | SA207-23N    | 1-7/16    |
| BSA20824N | SA208-24N    | 1-1/2     |
| BSA20926N | SA209-26N*   | 1-5/8     |
| BSA20928N | SA209-28N    | 1-3/4     |
| BSA21031N | SA210-31N*   | 1-15/16   |
| BSA21032N | SA210-32N    | 2         |
| BSA21132N | SA211-32N    | 2         |

\*IPTCI brand not available. We stock AMCAN brand.

| Part #     | Fafnir Part # | Bore Size |
|------------|---------------|-----------|
| BFRA100RRB | RA100RRB*     | 1         |

\*These are Fafnir brand. They are the equivalent of the IPTCI SA205-16N.



# BEARING INSERTS, SEALED SPHERICAL BEARINGS, HOUSINGS

ECENTRIC LOCKING COLLAR ▪ GREASABLE ▪ NARROW INNER RACE ▪ SPHERICAL OUTER RACE



| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BSA20412G | SA204-12G    | 3/4       |
| BSA20514G | SA205-14G    | 7/8       |
| BSA20516G | SA205-16G    | 1         |
| BSA20617G | SA206-17G    | 1-1/16    |
| BSA20618G | SA206-18G    | 1-1/8     |
| BSA20619G | SA206-19G    | 1-3/16    |
| BSA20620G | SA206-20G    | 1-1/4     |
| BSA20720G | SA207-20G    | 1-1/4     |
| BSA20721G | SA207-21G    | 1-5/16    |

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BSA20722G | SA207-22G    | 1-3/8     |
| BSA20723G | SA207-23G    | 1-7/16    |
| BSA20824G | SA208-24G    | 1-1/2     |
| BSA20926G | SA209-26G    | 1-5/8     |
| BSA20928G | SA209-28G    | 1-3/4     |
| BSA21030G | SA210-30G    | 1-7/8     |
| BSA21031G | SA210-31G    | 1-15/16   |
| BSA21032G | SA210-32G    | 2         |

## SEALED SPHERICAL BEARINGS

| Part #      | Bearing #  | Bearing OD | Bore | OR Width | IR Width |
|-------------|------------|------------|------|----------|----------|
| BGEZ25ES2RS | GEZ25ES2RS | 1.625      | 1    | 0.75     | .875     |



## HOUSINGS

PILLOW BLOCKS



| Part # | IPTCI Part # |
|--------|--------------|
| BP203  | P203         |
| BP204  | P204         |
| BP205  | P205         |
| BP206  | P206         |
| BP207  | P207         |
| BP208  | P208         |
| BP209  | P209         |

| Part # | IPTCI Part # |
|--------|--------------|
| BP210  | P210         |
| BP211  | P211         |
| BP212  | P212         |
| BP213  | P213         |
| BP214  | P214         |
| BP215  | P215         |

POWER TRANSMISSION SUPPLIES



## 4 HOLE FLANGES



| Part # | IPTCI Part # |
|--------|--------------|
| BNF203 | NF203        |
| BNF204 | NF204        |
| BNF205 | NF205        |
| BNF206 | NF206        |
| BNF207 | NF207        |
| BNF208 | NF208        |
| BNF209 | NF209        |

| Part # | IPTCI Part # |
|--------|--------------|
| BNF210 | NF210        |
| BNF211 | NF211        |
| BNF212 | NF212        |
| BNF213 | NF213        |
| BF214  | F214         |
| BNF215 | NF215        |

## 2 HOLE FLANGES

| Part #  | IPTCI Part # |
|---------|--------------|
| BNFL203 | FT203        |
| BNFL204 | NFL204       |
| BNFL205 | NFL205       |
| BNFL206 | NFL206       |
| BNFL207 | NFL207       |
| BNFL208 | NFL208       |
| BNFL209 | NFL209       |
| BNFL210 | NFL210       |
| BNFL211 | NFL211       |



## TAKE UP HOUSINGS

| Part # | IPTCI Part # |
|--------|--------------|
| BT204  | T204         |
| BT205  | T205         |
| BT206  | T206         |
| BT207  | T207         |
| BT208  | T208         |
| BT209  | T209         |
| BT210  | T210         |
| BT211  | T211         |



# HOUSINGS, COMPLETE BEARINGS

## 3 HOLE FLANGES

| Part #    | IPTCI Part # |
|-----------|--------------|
| BRFB204H4 | RFB204H4     |
| BRFB205H4 | RFB205H4     |
| BRFB206H4 | RFB206H4     |
| BRFB207H4 | RFB207H4     |



## 2 HOLE FLANGES

| Part #   | IPTCI Part # |
|----------|--------------|
| BLF203H4 | LF203H4      |
| BLF204H4 | LF204H4      |
| BLF205H4 | LF205H4      |
| BLF206H4 | LF206H4      |
| BLF207H4 | LF207H4      |



## COMPLETE BEARINGS

PILLOW BLOCK • SET SCREW LOCKING • GREASABLE • WIDE INNER RACE

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BUCP20412 | UCP204-12    | 3/4       |
| BUCP20514 | UCP205-14    | 7/8       |
| BUCP20516 | UCP205-16    | 1         |
| BUCP20620 | UCP206-20    | 1-1/4     |
| BUCP20720 | UCP207-20    | 1-1/4     |
| BUCP21031 | UCP210-31    | 1-15/16   |



TAKE UP HOUSING • SET SCREW LOCKING • GREASABLE • WIDE INNER RACE

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BUCT20618 | UCT206-18    | 1-1/8     |
| BUCT20720 | UCT207-20    | 1-1/4     |



## PILLOW BLOCK ▪ ECCENTRIC LOCKING COLLAR ▪ GREASABLE ▪ WIDE INNER RACE



| Part #    | Bore Size | IPTCI Part # | Part #    | Bore Size | IPTCI Part # |
|-----------|-----------|--------------|-----------|-----------|--------------|
| BNAP20210 | 5/8       | NAP202-10    | BNAP20824 | 1-1/2     | NAP208-24    |
| BNAP20412 | 3/4       | NAP204-12    | BNAP20926 | 1-5/8     | NAP209-26    |
| BNAP20514 | 7/8       | NAP205-14    | BNAP20928 | 1-3/4     | NAP209-28    |
| BNAP20516 | 1         | NAP205-16    | BNAP21031 | 1-15/16   | NAP210-31    |
| BNAP20618 | 1-1/8     | NAP206-18    | BNAP21132 | 2         | NAP211-32    |
| BNAP20620 | 1-1/4     | NAP206-20    | BNAP21135 | 2-3/16    | NAP211-35    |
| BNAP20720 | 1-1/4     | NAP207-20    | BNAP21239 | 2-7/16    | NAP212-39    |
| BNAP20722 | 1-3/8     | NAP207-22    | BNAP21340 | 2-1/2     | NAP213-40    |
| BNAP20723 | 1-7/16    | NAP207-23    | BNAP21547 | 2-15/16   | NAP215-47    |

## PILLOW BLOCK ▪ ECCENTRIC LOCKING COLLAR ▪ GREASABLE ▪ WIDE INNER RACE ▪ TRIPLE LIP SEAL

| Part #      | Bore Size | IPTCI Part # |
|-------------|-----------|--------------|
| BNAP20516L3 | 3         | NAP205-16    |



## TAPPED BASE PILLOW BLOCK ▪ ECCENTRIC LOCKING COLLAR ▪ WIDE INNER RACE

| Part #     | IPTCI Part # | Bore Size |
|------------|--------------|-----------|
| BNAPA20516 | NAPA205-16   | 1         |



## COMPLETE BEARINGS

### 4 HOLE FLANGE • SET SCREW LOCKING • GREASABLE • WIDE INNER RACE

| Part #    | Bearing # | Bore Size |
|-----------|-----------|-----------|
| BUCF20618 | UCF206-18 | 1-1/8     |
| BUCF20720 | UCF207-20 | 1-1/4     |
| BUCF21032 | UCF210-32 | 2         |



### 2 HOLE FLANGE • ECCENTRIC LOCKING COLLAR • GREASABLE • NARROW INNER RACE

| Part #      | IPTCI Part #   | Bore Size |
|-------------|----------------|-----------|
| BSALF20210G | SALF202-10G H4 | 5/8       |



### 2 HOLE FLANGE • SET SCREW LOCKING • GREASABLE • NARROW INNER RACE

| Part #     | IPTCI Part #   | Bore Size |
|------------|----------------|-----------|
| BSBLF20620 | SBLF206-20G H4 | 1-1/4     |



### 4 HOLE FLANGE • ECCENTRIC LOCKING COLLAR • GREASABLE • WIDE INNER RACE

| Part #     | IPTCI Part # | Bore Size |
|------------|--------------|-----------|
| BNANF20516 | NANF20516    | 1         |
| BNANF20720 | NANF20720    | 1-1/4     |



### 2 HOLE FLANGE • SET SCREW LOCKING • GREASABLE • WIDE INNER RACE

| Part #     | IPTCI Part # | Bore Size |
|------------|--------------|-----------|
| BUCFL20412 | UCFL204-12   | 3/4       |



## COMPLETE BEARINGS, ECONOMY MOUNTED BEARINGS

### 2 HOLE FLANGE ▪ ECCENTRIC LOCKING COLLAR ▪ GREASABLE ▪ WIDE INNER RACE

| Part #      | IPTCI Part # | Bore Size |
|-------------|--------------|-----------|
| BNANFL20412 | NANFL20412   | 3/4       |
| BNANFL20516 | NANFL20516   | 1         |
| BNANFL20824 | NANFL20824   | 1-1/2     |



### 4 HOLE PILOTED FLANGE ▪ SET SCREW LOCKING ▪ GREASABLE ▪ WIDE INNER RACE ▪ TRIPLE LIP SEAL

| Part #     | IPTCI Part # | Bore Size | Bolt Size |
|------------|--------------|-----------|-----------|
| BUCFC208L3 | UCFC208 L3   | 40mm      | M12       |



## ECONOMY MOUNTED BEARINGS

### PILLOW BLOCK ▪ SET SCREW LOCKING ▪ GREASABLE ▪ WIDE INNER RACE

Economy Mounted Bearing housing dimensions vary slightly from dimensions for IPTCI bearings. If you need an exact measurement for these please give us a call. Discounts for economy bearings come at 50 pieces and 100 pieces.



| Part #   | Bore Size | Bearing # | Part #   | Bore Size | Bearing # |
|----------|-----------|-----------|----------|-----------|-----------|
| BMC40412 | 3/4       | UCP204-12 | BMC40620 | 1-1/4     | UCP206-20 |
| BMC40514 | 7/8       | UCP205-14 | BMC40720 | 1-1/4     | UCP207-20 |
| BMC40515 | 15/16     | UCP205-15 | BMC40722 | 1-3/8     | UCP207-22 |
| BMC40516 | 1         | UCP205-16 | BMC40723 | 1-7/16    | UCP207-23 |
| BMC40618 | 1-1/8     | UCP206-18 | BMC40824 | 1-1/2     | UCP208-24 |
| BMC40619 | 1-3/16    | UCP206-19 |          |           |           |

# ECONOMY MOUNTED BEARINGS

## PILLOW BLOCK ▪ ECCENTRIC LOCKING COLLAR ▪ GREASABLE ▪ WIDE INNER RACE

| Part #   | Bearing #      | Bore Size |
|----------|----------------|-----------|
| BIP10412 | UELP/HCP204-12 | 3/4       |
| BIP10516 | UELP/HCP205-16 | 1         |
| BIP10618 | UELP/HCP206-18 | 1-1/8     |
| BIP10620 | UELP/HCP206-20 | 1-1/4     |
| BIP10720 | UELP/HCP207-20 | 1-1/4     |
| BIP10722 | UELP/HCP207-22 | 1-3/8     |
| BIP10824 | UELP/HCP208-24 | 1-1/2     |



## 4 HOLE FLANGE ▪ SET SCREW LOCKING ▪ GREASABLE ▪ WIDE INNER RACE

| Part #   | Bearing # | Bore Size |
|----------|-----------|-----------|
| BMF40210 | UCF202-10 | 5/8       |
| BMF40412 | UCF204-12 | 3/4       |
| BMF40514 | UCF205-14 | 7/8       |
| BMF40515 | UCF205-15 | 15/16     |
| BMF40516 | UCF205-16 | 1         |
| BMF40618 | UCF206-18 | 1-1/8     |
| BMF40619 | UCF206-19 | 1-3/16    |
| BMF40722 | UCF207-22 | 1-3/8     |



## 2 HOLE FLANGE ▪ SET SCREW LOCKING ▪ GREASABLE ▪ WIDE INNER RACE

| Part #    | Bearing #  | Bore Size |
|-----------|------------|-----------|
| BMFL40210 | UCFL202-10 | 5/8       |
| BMFL40412 | UCFL204-12 | 3/4       |
| BMFL40516 | UCFL205-16 | 1         |



## 2 HOLE FLANGE ▪ ECCENTRIC LOCKING COLLAR ▪ GREASABLE ▪ WIDE INNER RACE

| Part #    | Bearing #        | Bore Size |
|-----------|------------------|-----------|
| BIFT10412 | UELFT/HCFT204-12 | 3/4       |
| BIFT10516 | UELFT/HCFT205-16 | 1         |



## STAMPED FLANGES

### 2 HOLE FLANGES

Stamped Flanges are sold by the piece with the exception of pillow blocks. Two pieces are needed to make one housing unit with the exception of flush mount housings.

| Part #  | Size | Overall Length | Overall Width | Center to Center on Bolt Holes | Material Thickness | Hole Size |
|---------|------|----------------|---------------|--------------------------------|--------------------|-----------|
| BFL2H40 | 40mm | 3 3/16         | 2 5/16        | 2 1/2                          | 0.075              | 9/32      |
| BFL2H47 | 47mm | 3 9/16         | 2 5/8         | 2 13/16                        | 0.083              | 11/32     |
| BFL2H52 | 52mm | 3 3/4          | 2 51/64       | 3                              | 0.083              | 11/32     |
| BFL2H62 | 62mm | 4 7/16         | 3 5/16        | 3 9/16                         | 0.104              | 13/32     |
| BFL2H72 | 72mm | 4 15/16        | 3 11/16       | 3 15/16                        | 0.104              | 13/32     |



### 2 HOLE FLUSH MOUNT FLANGES

Flush Mount Flanges are designed to be used with bearings that have a cylindrical OD and are not self aligning.

| Part #  | Size | Overall Length | Overall Width | Center to Center on Bolt Holes | Material Thickness | Hole Size |
|---------|------|----------------|---------------|--------------------------------|--------------------|-----------|
| BFLFM40 | 40mm | 3 3/16         | 2 5/16        | 2 1/2                          | 0.074              | 9/32      |
| BFLFM47 | 47mm | 3 9/16         | 2 5/8         | 2 13/16                        | 0.074              | 11/32     |
| BFLFM52 | 52mm | 3 3/4          | 2 51/64       | 3                              | 0.074              | 11/32     |



### PILLOW BLOCKS

Pillow Blocks are sold as a complete set only.



| Part # | Size | Overall Length | Center to Center on Bolt Holes | Width | Height to Center of Shaft | Overall Height | Hole Size |
|--------|------|----------------|--------------------------------|-------|---------------------------|----------------|-----------|
| BFLP47 | 47mm | 4 1/8          | 3                              | 1     | 1                         | 2 1/16         | 13/32     |
| BFLP52 | 52mm | 4 1/2          | 3 3/8                          | 1 1/8 | 1 1/8                     | 2 7/32         | 13/32     |
| BFLP62 | 62mm | 4 7/8          | 3 3/4                          | 1 1/8 | 1 5/16                    | 2 5/8          | 13/32     |
| BFLP72 | 72mm | 5 3/4          | 4 1/4                          | 1 1/4 | 1 9/16                    | 3 1/8          | 17/32     |



# STAMPED FLANGES

## PILLOW BLOCKS • STAND



| Part #  | Shaft Diameter | Overall Length | Center to Center on Bolt Holes | Width | Height to Center of Shaft | Overall Height | Hole Size |
|---------|----------------|----------------|--------------------------------|-------|---------------------------|----------------|-----------|
| BFLPS47 | 47mm           | 5              | 2 13/16                        | 1     | 1 5/16                    | 2 11/16        | 11/32     |

## 3 HOLE OR 4 HOLE ROUND FLANGES

| Part #  | Size  | Number of Bolt Holes | OD      | Center to Center on Bolt Holes | Material Thickness | Hole Size |
|---------|-------|----------------------|---------|--------------------------------|--------------------|-----------|
| BFLR40  | 40mm  | 3                    | 3 3/16  | 2 1/2                          | 0.075              | 9/32      |
| BFLR47  | 47mm  | 3                    | 3 9/16  | 2 13/16                        | 0.083              | 11/32     |
| BFLR52  | 52mm  | 3                    | 3 3/4   | 3                              | 0.083              | 11/32     |
| BFLR62  | 62mm  | 3                    | 4 7/16  | 3 9/16                         | 0.104              | 13/32     |
| BFLR72  | 72mm  | 3                    | 4 13/16 | 3 15/16                        | 0.104              | 13/32     |
| BFLR724 | 72mm  | 4                    | 4 13/16 | 3 15/16                        | 0.104              | 13/32     |
| BFLR80  | 80mm  | 4                    | 5 13/16 | 4 11/16                        | 0.134              | 17/32     |
| BFLR85  | 85mm  | 4                    | 5 7/8   | 4 3/4                          | 0.134              | 17/32     |
| BFLR90  | 90mm  | 4                    | 6 1/8   | 5                              | 0.149              | 17/32     |
| BFLR100 | 100mm | 4                    | 6 9/16  | 5 7/16                         | 0.149              | 17/32     |



\*The measurement for the center to center on the bolt holes for 3 hole round flanges is made by drawing a circle through the center of the bolt holes and then measuring the diameter of the circle.

## HEAVY 3 HOLE OR 4 HOLE ROUND FLANGES

Heavy Round Flanges are made with a grease ring and are designed as the mating flange for the flanges with zerks.

| Part #   | Size  | Number of Bolt Holes | OD      | Center to Center on Bolt Holes | Material Thickness | Hole Size |
|----------|-------|----------------------|---------|--------------------------------|--------------------|-----------|
| BFLRH52  | 52mm  | 3                    | 3 3/4   | 3                              | 0.134              | 11/32     |
| BFLRH62  | 62mm  | 3                    | 4 7/16  | 3 9/16                         | 0.134              | 13/32     |
| BFLR3H72 | 72mm  | 3                    | 4 13/16 | 3 15/16                        | 0.134              | 13/32     |
| BFLRH80  | 80mm  | 4                    | 5 13/16 | 4 11/16                        | 0.149              | 17/32     |
| BFLRH85  | 85mm  | 4                    | 5 7/8   | 4 3/4                          | 0.149              | 17/32     |
| BFLRH90  | 90mm  | 4                    | 6 1/8   | 5                              | 0.164              | 17/32     |
| BFLRH100 | 100mm | 4                    | 6 9/16  | 5 7/16                         | 0.164              | 17/32     |



\*The measurement for the center to center on the bolt holes for 3 hole round flanges is made by drawing a circle through the center of the bolt holes and then measuring the diameter of the circle.

## GREASABLE 3 HOLE OR 4 HOLE ROUND FLANGES

Greasable Round Flanges come with a zerk built into them. For the mating flange use a heavy round flange.

| Part #   | Size  | Number of Bolt Holes | OD      | Center to Center on Bolt Holes |
|----------|-------|----------------------|---------|--------------------------------|
| BFLRZ52  | 52mm  | 3                    | 3 3/4   | 3                              |
| BFLRZ62  | 62mm  | 3                    | 4 7/16  | 3 9/16                         |
| BFLRZ72  | 72mm  | 3                    | 4 13/16 | 3 15/16                        |
| BFLRZ80  | 80mm  | 4                    | 5 13/16 | 4 11/16                        |
| BFLRZ85  | 85mm  | 4                    | 5 7/8   | 4 3/4                          |
| BFLRZ90  | 90mm  | 4                    | 6 1/8   | 5                              |
| BFLRZ100 | 100mm | 4                    | 6 9/16  | 5 7/16                         |

\*The measurement for the center to center on the bolt holes for 3 hole round flanges is made by drawing a circle through the center of the bolt holes and then measuring the diameter of the circle.



## 3 HOLE TRIANGULAR FLANGES

| Part # | Size | Height  | Center to Center on Bolt Holes* | Material Thickness | Hole Size |
|--------|------|---------|---------------------------------|--------------------|-----------|
| BFLT40 | 40mm | 2 23/32 | 2 1/2                           | 0.075              | 9/32      |
| BFLT47 | 47mm | 3       | 2 13/16                         | 0.083              | 11/32     |
| BFLT52 | 52mm | 3 1/8   | 3                               | 0.083              | 11/32     |
| BFLT62 | 62mm | 3 11/16 | 3 9/16                          | 0.104              | 13/32     |
| BFLT72 | 72mm | 4 5/32  | 3 15/16                         | 0.104              | 13/32     |

\*The measurement for the center to center on the bolt holes for 3 hole triangular flanges is made by drawing a circle through the center of the bolt holes and then measuring the diameter of the circle.



# RADIAL BALL BEARINGS

## RADIAL BALL BEARINGS

### RUBBER SEALS BOTH SIDES • METRIC SIZES

Radial Bearings come in many types and sizes. 2rs indicates a bearing with rubber seals and ZZ indicates a bearing with metal shields. These bearings come standard with a CO fit but for high speed applications designate a C3 fit. Discounts come at 10 pieces and 50 pieces.



| Part #      | Bearing #  | Bearing OD | Bearing ID | Bearing Width | Part #      | Bearing #  | Bearing OD | Bearing ID | Bearing Width |
|-------------|------------|------------|------------|---------------|-------------|------------|------------|------------|---------------|
| B607-2RS    | 607-2RS    | 19mm       | 7mm        | 6mm           | B6206-2RS   | 6206-2RS   | 62mm       | 30mm       | 16mm          |
| B608-2RS    | 608-2RS    | 22mm       | 8mm        | 7mm           | B6207-2RS   | 6207-2RS   | 72mm       | 35mm       | 17mm          |
| B626-2RS    | 626-2RS    | 19mm       | 6mm        | 6mm           | B6208-2RS   | 6208-2RS   | 80mm       | 40mm       | 18mm          |
| B627-2RS    | 627-2RS    | 22mm       | 7mm        | 7mm           | B6209-2RS   | 6209-2RS   | 85mm       | 45mm       | 19mm          |
| B629-2RS    | 629-2RS    | 26mm       | 9mm        | 8mm           | B6210-2RS   | 6210-2RS   | 90mm       | 50mm       | 20mm          |
| B5202-2RS   | 5202-2RS   | 35mm       | 15mm       | .625          | B6211-2RS   | 6211-2RS   | 100mm      | 55mm       | 21mm          |
| B5203-2RS   | 5203-2RS   | 40mm       | 17mm       | .6875         | B6300-2RS   | 6300-2RS   | 35mm       | 10mm       | 11mm          |
| B5304-2RS   | 5304-2RS   | 52mm       | 20mm       | .875          | B6301-2RS   | 6301-2RS   | 37mm       | 12mm       | 12mm          |
| B6000-2RS   | 6000-2RS   | 26mm       | 10mm       | 8mm           | B6302-2RS   | 6302-2RS   | 42mm       | 15mm       | 13mm          |
| B6001-2RS   | 6001-2RS   | 28mm       | 12mm       | 8mm           | B6303-2RS   | 6303-2RS   | 47mm       | 17mm       | 14mm          |
| B6002-2RS   | 6002-2RS   | 32mm       | 15mm       | 9mm           | B6304-2RS   | 6304-2RS   | 52mm       | 20mm       | 15mm          |
| B6003-2RS   | 6003-2RS   | 35mm       | 17mm       | 10mm          | B6305-2RS   | 6305-2RS   | 62mm       | 25mm       | 17mm          |
| B6004-2RS   | 6004-2RS   | 42mm       | 20mm       | 12mm          | B6306-2RS   | 6306-2RS   | 72mm       | 30mm       | 19mm          |
| B6005-2RS   | 6005-2RS   | 47mm       | 25mm       | 12mm          | B6307-2RS   | 6307-2RS   | 80mm       | 35mm       | 21mm          |
| B6006-2RS   | 6006-2RS   | 55mm       | 30mm       | 13mm          | B6308-2RS   | 6308-2RS   | 90mm       | 40mm       | 23mm          |
| B6007-2RS   | 6007-2RS   | 62mm       | 35mm       | 14mm          | B6309-2RS   | 6309-2RS   | 100mm      | 45mm       | 25mm          |
| B6008-2RS   | 6008-2RS   | 68mm       | 40mm       | 15mm          | B6310-2RS   | 6310-2RS   | 110mm      | 50mm       | 27mm          |
| B6009-2RS   | 6009-2RS   | 75mm       | 45mm       | 16mm          | B6311-2RS   | 6311-2RS   | 120mm      | 55mm       | 29mm          |
| B6010-2RS   | 6010-2RS   | 80mm       | 50mm       | 16mm          | B6312-2RS   | 6312-2RS   | 130mm      | 60mm       | 31mm          |
| B6011-2RS   | 6011-2RS   | 90mm       | 55mm       | 18mm          | B6900-2RS   | 6900-2RS   | 22mm       | 10mm       | 6mm           |
| B6012-2RS   | 6012-2RS   | 95mm       | 60mm       | 18mm          | B6905-2RS   | 6905-2RS   | 42mm       | 25mm       | 9mm           |
| B6200-2RS   | 6200-2RS   | 30mm       | 10mm       | 9mm           | B6201-2RS08 | 6201-2RS08 | 1.2598     | .5         | .3937         |
| B6201-2RS   | 6201-2RS   | 32mm       | 12mm       | 10mm          | B6202-2RS10 | 6202-2RS10 | 35mm       | .625       | 11mm          |
| B6201-2RSC3 | 6201-2RSC3 | 32mm       | 12mm       | 10mm          | B6202-2RS16 | 6202-2RS16 | 35mm       | 16mm       | 11mm          |
| B6202-2RS   | 6202-2RS   | 35mm       | 15mm       | 11mm          | B6203-2RS10 | 6203-2RS10 | 40mm       | .625       | 12mm          |
| B6203-2RS   | 6203-2RS   | 40mm       | 17mm       | 12mm          | B6203-2RS12 | 6203-2RS12 | 40mm       | .75        | 12mm          |
| B6204-2RS   | 6204-2RS   | 47mm       | 20mm       | 14mm          | B6204-2RS12 | 6204-2RS12 | 47mm       | .75        | 14mm          |
| B6205-2RS   | 6205-2RS   | 52mm       | 25mm       | 15mm          | B6205-2RS16 | 6205-2RS16 | 52mm       | 1          | 15mm          |

## METAL SHIELDS BOTH SIDES • METRIC SIZES

| Part #   | Bearing # | Bearing OD | Bearing ID | Bearing Width |
|----------|-----------|------------|------------|---------------|
| B608-ZZ  | 608-ZZ    | 22mm       | 8mm        | 7mm           |
| B626-ZZ  | 626-ZZ    | 19mm       | 6mm        | 6mm           |
| B686-ZZ  | 686-ZZ    | 13mm       | 6mm        | 5mm           |
| B5200-ZZ | 5200-ZZ   | 30mm       | 10mm       | .5625         |
| B6004-ZZ | 6004-ZZ   | 42mm       | 20mm       | 12mm          |
| B6202-ZZ | 6202-ZZ   | 35mm       | 15mm       | 11mm          |
| B6205-ZZ | 6205-ZZ   | 52mm       | 25mm       | 15mm          |
| B6206-ZZ | 6206-ZZ   | 62mm       | 30mm       | 16mm          |
| B6305-ZZ | 6305-ZZ   | 62mm       | 25mm       | 17mm          |



## RUBBER SEALS BOTH SIDES • SNAP RING • METRIC SIZES

| Part #      | Bearing #  | Bearing OD | Bearing ID | Bearing Width |
|-------------|------------|------------|------------|---------------|
| B6205-2RSNR | 6205-2RSNR | 52mm       | 25mm       | 15mm          |



## PREMIUM BEARINGS • RUBBER SEALS BOTH SIDES • METRIC SIZES



| Part #     | Bearing # | Bearing OD | Bearing ID | Bearing Width |
|------------|-----------|------------|------------|---------------|
| BP6000-2RS | P6000-2RS | 26mm       | 10mm       | 8mm           |
| BP6003-2RS | P6003-2RS | 35mm       | 17mm       | 10mm          |
| BP6004-2RS | P6004-2RS | 42mm       | 20mm       | 12mm          |
| BP6005-2RS | P6005-2RS | 47mm       | 25mm       | 12mm          |
| BP6202-2RS | P6202-2RS | 35mm       | 15mm       | 11mm          |
| BP6203-2RS | P6203-2RS | 40mm       | 17mm       | 12mm          |
| BP6204-2RS | P6204-2RS | 47mm       | 20mm       | 14mm          |
| BP6205-2RS | P6205-2RS | 52mm       | 25mm       | 15mm          |
| BP6206-2RS | P6206-2RS | 62mm       | 30mm       | 16mm          |

| Part #     | Bearing # | Bearing OD | Bearing ID | Bearing Width |
|------------|-----------|------------|------------|---------------|
| BP6207-2RS | P6207-2RS | 72mm       | 35mm       | 17mm          |
| BP6208-2RS | P6208-2RS | 80mm       | 40mm       | 18mm          |
| BP6304-2RS | P6304-2RS | 52mm       | 20mm       | 15mm          |
| BP6305-2RS | P6305-2RS | 62mm       | 25mm       | 17mm          |
| BP6307-2RS | P6307-2RS | 80mm       | 35mm       | 21mm          |
| BP6308-2RS | P6308-2RS | 90mm       | 40mm       | 23mm          |
| BP6309-2RS | P6309-2RS | 100mm      | 45mm       | 25mm          |
| BP6311-2RS | P6311-2RS | 120mm      | 55mm       | 29mm          |

RADIAL BALL BEARINGS

RUBBER SEALS BOTH SIDES • IMPERIAL SIZES



| Part #    | Bearing # | Bearing OD | Bearing ID | Bearing Width | Part #    | Bearing # | Bearing OD | Bearing ID | Bearing Width |
|-----------|-----------|------------|------------|---------------|-----------|-----------|------------|------------|---------------|
| B1603-2RS | 1603-2RS  | 0.8750     | 0.3125     | 0.3438        | B1641-2RS | 1641-2RS  | 2          | 1          | .5625         |
| B1605-2RS | 1605-2RS  | 0.9063     | 0.3125     | 0.3125        | B1652-2RS | 1652-2RS  | 2.5        | 1.125      | .625          |
| B1607-2RS | 1607-2RS  | 0.9063     | 0.4375     | 0.3125        | B1654-2RS | 1654-2RS  | 2.5        | 1.25       | .625          |
| B1616-2RS | 1616-2RS  | 1.125      | .5         | .375          | BR3-2RS   | R3-2RS    | .5         | .1875      | .196          |
| B1621-2RS | 1621-2RS  | 1.375      | .5         | .437          | BR4-2RS   | R4-2RS    | .625       | .25        | .196          |
| B1622-2RS | 1622-2RS  | 1.375      | .5625      | .4375         | BR6-2RS   | R6-2RS    | .875       | .375       | .2812         |
| B1623-2RS | 1623-2RS  | 1.375      | .625       | .4375         | BR8-2RS   | R8-2RS    | 1.125      | .5         | .3125         |
| B1628-2RS | 1628-2RS  | 1.625      | .625       | .5            | BR10-2RS  | R10-2RS   | 1.375      | .625       | .3438         |
| B1630-2RS | 1630-2RS  | 1.625      | .75        | .5            | BR12-2RS  | R12-2RS   | 1.625      | .75        | .438          |
| B1633-2RS | 1633-2RS  | 1.75       | .625       | .5            | BR14-2RS  | R14-2RS   | 1.875      | .875       | .5            |
| B1635-2RS | 1635-2RS  | 1.75       | .75        | .5            | BR16-2RS  | R16-2RS   | 2          | 1          | .5            |
| B1638-2RS | 1638-2RS  | 2          | .75        | .5625         | BR24-2RS  | R24-2RS   | 2.625      | 1.5        | .5625         |

METAL SHIELDS BOTH SIDES • IMPERIAL SIZES

| Part # | Bearing # | Bearing OD | Bearing ID | Bearing Width |
|--------|-----------|------------|------------|---------------|
| BR4-ZZ | R4-ZZ     | .625       | .25        | .196          |



STAINLESS STEEL • RUBBER SEALS BOTH SIDES • IMPERIAL SIZES

| Part #      | Bearing # | Bearing OD | Bearing ID | Bearing Width |
|-------------|-----------|------------|------------|---------------|
| BSS1621-2RS | 1621-2RS  | 1.375      | .5         | .4375         |



SPECIALTY BEARINGS

| Part # | Bearing # | Bearing OD | Bearing ID | Bearing Width |
|--------|-----------|------------|------------|---------------|
| B88504 | 88504     | 47mm       | 20mm       | 14mm          |



POWER TRANSMISSION SUPPLIES

## WHEEL BARROW BEARINGS

### PRECISION GROUND - RUBBER SEALS BOTH SIDES

Wheel Barrow Bearings are designed for use in wheel barrow and other similar wheels. Price breaks are at 10 pieces and 50 pieces.

| Part # | Size<br>ID x OD | Flange OD | Bearing Width | Width of<br>Inner Race |
|--------|-----------------|-----------|---------------|------------------------|
| BWBP08 | 1/2 x 1 3/8     | 1.50      | 0.422         | .510                   |
| BWBP10 | 5/8 x 1 3/8     | 1.50      | 0.422         | .510                   |
| BWBP12 | 3/4 x 1 3/8     | 1.50      | 0.344         | .510                   |



### UNGROUND - METAL SHIELDED

| Part #  | Size<br>ID x OD | Flange OD | Bearing Width | Width of<br>Inner Race |
|---------|-----------------|-----------|---------------|------------------------|
| BWB0618 | 3/8 x 1 1/8     | 1.25      | 0.344         | .438                   |
| BWB0818 | 1/2 x 1 1/8     | 1.25      | 0.344         | .438                   |
| BWB08   | 1/2 x 1 3/8     | 1.50      | 0.422         | .525                   |



## WHEEL BEARINGS

Tapered Roller Bearings are also known as wheel bearings. They are designed to accommodate combined loads such as radial and axial loads.



| Part #         | Bearing #        | ID     | OD     | Thickness | Part #        | Bearing #       | ID     | OD     | Thickness |
|----------------|------------------|--------|--------|-----------|---------------|-----------------|--------|--------|-----------|
| BTRJL69349/10  | A-18 JL69349/10  | 1.4961 | 2.4803 | 0.6693    | BTRLM11949/10 | A-2 LM11949/10  | 0.750  | 1.781  | 0.610     |
| BTRL44643/10   | A-14 L44643/10   | 1.000  | 1.980  | 0.560     | BTRLM12749/10 | A-12 LM12749/10 | 0.8656 | 1.781  | 0.610     |
| BTRL44649/10   | A-4 L44649/10    | 1.0625 | 1.980  | 0.560     | BTRLM29710    | LM29710         | -      | 2.5625 | 0.710     |
| BTRL68149/11   | A-17 L68149/11   | 1.3775 | 2.3612 | 0.625     | BTRLM29748/10 | A-81 LM29748/10 | 1.500  | 2.5625 | 0.710     |
| BTRLM102910    | LM102910         | -      | 2.891  | 0.770     | BTRLM29749    | LM29749         | 1.500  | -      | -         |
| BTRLM102949    | LM102949         | 1.7812 | -      | -         | BTRLM48548/10 | A-5 LM48548/10  | 1.375  | 2.5625 | 0.710     |
| BTRLM102949/10 | A-80 LM102949/10 | 1.7812 | 2.891  | 0.770     | BTRLM501310   | LM501310        | -      | 2.891  | 0.770     |
| BTRLM104911    | LM104911         | -      | 3.2283 | 0.850     | BTRLM501349   | LM501349        | 1.625  | -      | -         |
| BTRLM104949    | LM104949         | 2.000  | -      | -         | BTRLM603011   | LM603011        | -      | 3.0625 | 0.7812    |
| BTRLM11749/10  | A-1 LM11749/10   | 0.6875 | 1.570  | 0.545     | BTRLM603049   | LM603049        | 1.7812 | -      | -         |

# WHEEL BEARINGS, DISC & HARROW BEARINGS

## WHEEL BEARINGS

| Part #         | Bearing #        | ID     | OD     | Thickness | Part #          | Bearing #    | ID     | OD     | Thickness |
|----------------|------------------|--------|--------|-----------|-----------------|--------------|--------|--------|-----------|
| BTRLM603049/11 | A-37 LM603049/11 | 1.7812 | 3.0625 | 0.7812    | BTR30315J       | 30315J       | 75mm   | 160mm  | 37mm      |
| BTRLM603049/12 | A-36 LM603049/12 | 1.7812 | 3.0625 | 0.8437    | BTR32218J       | 32218J       | 90mm   | 160mm  | 40mm      |
| BTRLM67010     | LM67010          | -      | 2.328  | 0.625     | BTR387A/382A    | 387A/382A    | 2.250  | 3.8125 | 0.8268    |
| BTRLM67048     | LM67048          | 1.250  | -      | -         | BTR39520        | 39520        | -      | 4.4375 | 1.1875    |
| BTRLM67048/10  | A-6 LM67048/10   | 1.250  | 2.328  | 0.625     | BTR39585        | 39585        | 2.500  | -      | -         |
| BTRM12649/10   | A-3 M12649/10    | 0.8437 | 1.9687 | 0.690     | BTR3984/3920    | 3984/3920    | 2.625  | 4.4375 | 1.1875    |
| BTRJL69349     | JL69349          | 1.4961 | -      | -         | BTR47620        | 47620        | -      | 5.250  | 1.3125    |
| BTRJLM104948   | JLM104948        | 1.9685 | -      | -         | BTR47687        | 47687        | 3.250  | -      | #-        |
| BTR02420       | 02420            | -      | 2.6875 | 0.875     | BTRJLM506849/10 | JLM506849/10 | 2.1654 | 3.5433 | 0.9055    |
| BTR02475       | 02475            | 1.250  | -      | -         | BTRL44643       | L44643       | 1.000  | -      | -         |
| BTR14125A      | 14125A           | 1.250  | -      | -         | BTRL68110       | L68110       | -      | 2.328  | 0.625     |
| BTR14276       | 14276            | -      | 2.717  | 0.7813    | BTRP30318       | 30318        | 90mm   | 190mm  | 43mm      |
| BTR25520       | 25520            | -      | 3.265  | 0.9375    | BTRJL69310      | JL69310      | -      | 2.4803 | 0.6693    |
| BTR25580       | 25580            | 1.750  | -      | -         | BTRJLM104910    | JLM104910    | -      | 3.2283 | 0.8465    |
| BTR25580/20    | 25580/25520      | 1.750  | 3.265  | 0.9375    | BTRPNSK30318    | 30318        | 90mm   | 190mm  | 46.5mm    |
| BTR28921       | 28921            | -      | 3.937  | 1.000     | BF32024X        | 32024X       | 120mm  | 180mm  | 38mm      |

## DISC & HARROW BEARINGS

### CYLINDRICAL OUTER RACE - NON-GREASABLE

Disc & Harrow Bearings feature a triple lip seal because they are typically used in dusty, dirty environments.

| Part #    | Bearing # | Shaft Size   | Bearing OD | Width of Inner Race | Width of Outer Race |
|-----------|-----------|--------------|------------|---------------------|---------------------|
| BW208PP5  | W208PP5   | 1.125 Square | 3.1496     | 1.438               | 0.709               |
| BW208PP8  | W208PP8   | 1.125 Square | 3.1496     | 1.438               | 1.188               |
| BW208PP10 | W208PP10  | 1.5005 Round | 3.1496     | 1.688               | 0.827               |
| BW211PP3  | W211PP3   | 1.5 Square   | 3.937      | 1.312               | 1.312               |





## SPHERICAL OUTER RACE • NON-GREASABLE

| Part #     | Bearing # | Shaft Size   | Bearing OD | Width of Inner Race | Width of Outer Race |
|------------|-----------|--------------|------------|---------------------|---------------------|
| BW208PPB5  | W208PPB5  | 1.125 Square | 3.1496     | 1.438               | 0.709               |
| BW208PPB6  | W208PPB6  | 1 Square     | 3.1496     | 1.438               | 0.709               |
| BW208PPB7  | W208PPB7  | 1.188 Round  | 3.1496     | 1.188               | 0.709               |
| BW208PPB8  | W208PPB8  | 1.125 Square | 3.1496     | 1.438               | 1.188               |
| BW208PPB12 | W208PPB12 | 1.125 Square | 3.376      | 1.438               | 1.188               |
| BW209PPB2  | W209PPB2  | 1.7717 Round | 3.346      | 1.188               | 1.188               |
| BW209PPB4  | W209PPB4  | 1.535 Round  | 3.346      | 1.188               | 1.188               |
| BW209PPB5  | W209PPB5  | 1.25 Square  | 3.3465     | 1.438               | 1.188               |
| BW210PPB2  | W210PPB2  | 1.938 Round  | 3.543      | 1.188               | 1.188               |
| BW210PPB5  | W210PPB5  | 1.785 Round  | 3.543      | 1.188               | 1.188               |



## SPHERICAL OUTER RACE • GREASABLE

| Part #     | Bearing # | Shaft Size   | Bearing OD | Width of Inner Race | Width of Outer Race |
|------------|-----------|--------------|------------|---------------------|---------------------|
| BGW208PPB5 | GW208PPB5 | 1.125 Square | 13.25      | 1.4375              | 0.827               |
| BGW208PPB8 | GW208PPB8 | 1.125 Square | 3.1496     | 1.4375              | 1.188               |
| BGW209PPB2 | GW209PPB2 | 1.7717 Round | 3.3465     | 1.188               | 1.188               |
| BGW209PPB4 | GW209PPB4 | 1.535 Round  | 3.3465     | 1.188               | 1.188               |
| BGW209PPB5 | GW209PPB5 | 1.25 Square  | 3.3465     | 1.4375              | 1.188               |
| BGW210PPB4 | GW210PPB4 | 1.158 Square | 3.3465     | 1.188               | 1.188               |
| BGW211PPB2 | GW211PPB2 | 2.188 Round  | 3.937      | 1.312               | 1.312               |
| BGW211PPB3 | GW211PPB3 | 1.5 Square   | 3.937      | 1.3125              | 1.312               |



## 4 BOLT FLANGED • NON-GREASABLE

| Part #   | Bearing # | Shaft Size   | Bolt Center to Center |
|----------|-----------|--------------|-----------------------|
| BFD209RA | FD209RA   | 1-3/4 Round  | 3.536                 |
| BFD209RK | FD209RK   | 1-1/4 Square | 3.536                 |
| BFD211RE | FD211RE   | 1-3/4 Round  | 5.5                   |



BEARING INSERTS

HEX BORE BEARINGS

CYLINDRICAL OUTER RACE

| Part #    | Bearing # | Bore  | OD    | Inner Race Thickness | Outer Race Thickness |
|-----------|-----------|-------|-------|----------------------|----------------------|
| B205KRR2  | 205KRR2   | 7/8   | 2.047 | 1.000                | 0.590                |
| B207KRR12 | 207KRR12  | 1-1/8 | 2.835 | 0.980                | 0.660                |



SPHERICAL OUTER RACE

| Part #     | Bearing # | Bore  | OD     | Inner Race Thickness | Outer Race Thickness |
|------------|-----------|-------|--------|----------------------|----------------------|
| B205KRRB2  | 205KRRB2  | 7/8   | 2.047  | 1.000                | 0.590                |
| B206KRRB6  | 206KRRB6  | 1     | 2.441  | 0.940                | 0.630                |
| B207KRRB9  | 207KRRB9  | 1-1/8 | 2.835  | 1.484                | .0669                |
| B207KRRB12 | 207KRRB12 | 1-1/8 | 2.835  | 0.980                | 0.660                |
| BW208KRRB6 | W208KRRB6 | 1-3/8 | 3.1496 | -                    | 1.4375               |
| B209KRRB2  | 209KRRB2  | 1-1/2 | 3.334  | 1.180                | 0.740                |



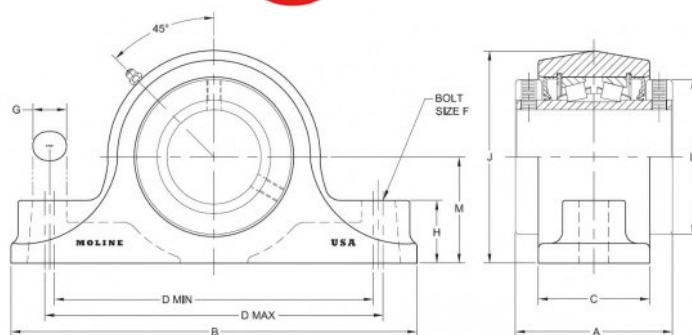
## TYPE E TAPERED ROLLER BEARINGS



**MOLINE  
BEARING CO.**

### FEATURES OF MOLINE TYPE E TAPERED ROLLER BEARINGS WITH TIMKEN® TAPERED ROLLER BEARINGS

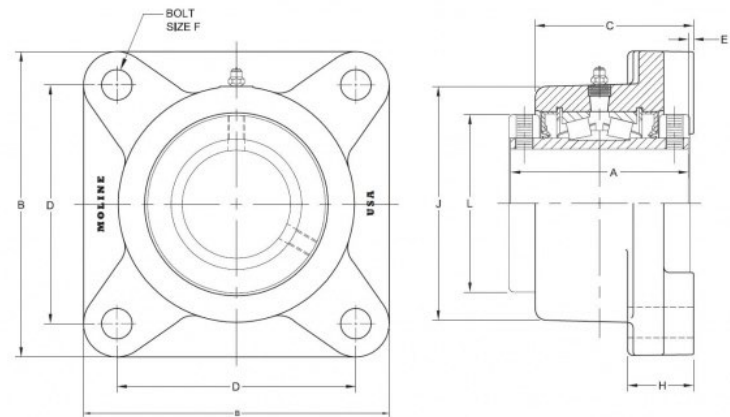
- Available in shaft sizes from 1 3/16" to 7", and 35mm to 180mm
- Easy installation and maintenance
- Dimensionally interchangeable with comparable competitive Type E units
- Timken® DEE tapered roller bearing inserts which give higher radial and thrust loads than the competition
- Rugged housings are made in the USA of Class 30 cast iron
- Custom machining and design is available.



### 2 BOLT PILLOW BLOCKS

| MOLINE<br>PART # | SHAFT<br>SIZE | DIMENSIONS (INCHES) |        |       |          |                       |          |       |         |       |         |         |       | WEIGHT<br>LBS. |
|------------------|---------------|---------------------|--------|-------|----------|-----------------------|----------|-------|---------|-------|---------|---------|-------|----------------|
|                  |               | A                   | B      | C     | MIN<br>D | CENTER TO<br>CENTER D | MAX<br>D | F     | G       | H     | J       | L       | M     |                |
| 19321103         | 1 3/16        |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321104         | 1 1/4"        | 2 3/4               | 6      | 1 7/8 | 4 5/8    | 4 3/4                 | 4 7/8    | 3/8   | 19/32   | 7/8   | 3       | 2 1/4   | 1 1/2 | 4              |
| 19321106         | 1 3/8         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321107         | 1 7/16        | 3                   | 7 3/8  | 2 1/8 | 5        | 5 1/2                 | 6        | 1/2   | 1 1/8   | 1 1/8 | 3 7/8   | 2 3/4   | 1 7/8 | 6.9            |
| 19321035         | 35 MM         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321108         | 1 1/2         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321110         | 1 5/8         | 3 3/8               | 7 7/8  | 2 3/8 | 5 5/8    | 6 1/16                | 6 1/2    | 1/2   | 1 1/16  | 1 1/4 | 4 1/4   | 3 3/16  | 2 1/8 | 9.5            |
| 19321111         | 1 11/16       |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321040         | 40 MM         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321112         | 1 3/4         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321114         | 1 7/8         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321115         | 1 15/16       |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321200         | 2             | 3 1/2               | 8 7/8  | 2 1/2 | 6 1/8    | 6 11/16               | 7 1/4    | 5/8   | 15/16   | 15/16 | 4 1/2   | 3 3/8   | 2 1/4 | 11             |
| 19321045         | 45MM          |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321050         | 50 MM         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321203         | 2 3/16        | 3 3/4               | 9 5/8  | 2 5/8 | 6 11/16  | 7 3/8                 | 8        | 5/8   | 17/16   | 1 1/2 | 5       | 3 3/4   | 2 1/2 | 14             |
| 19321055         | 55 MM         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321204         | 2 1/4         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321207         | 2 7/16        |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321208         | 2 1/2         | 4                   | 10 1/2 | 2 7/8 | 7 1/8    | 7 7/8                 | 8 5/8    | 1 1/2 | 7/8     | 15/8  | 5 11/16 | 4       | 2 3/4 | 19             |
| 19321060         | 60 MM         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321065         | 65 MM         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321211         | 2 11/16       |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321212         | 2 3/4         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321215         | 2 15/16       | 4 1/2               | 12     | 3     | 7 7/8    | 8 13/16               | 9 3/4    | 3/4   | 1 13/16 | 1 7/8 | 6 5/16  | 4 11/16 | 3 1/8 | 26             |
| 19321300         | 3             |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321070         | 70 MM         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321075         | 75 MM         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321303         | 3 3/16        |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321304         | 3 1/4         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321307         | 3 7/16        |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321308         | 3 1/2         | 5                   | 14     | 3 5/8 | 9 3/4    | 10 5/8                | 11 1/2   | 7/8   | 1 7/8   | 2 1/4 | 7 1/2   | 5 15/16 | 3 3/4 | 44             |
| 19321080         | 80 MM         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321085         | 85 MM         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |
| 19321090         | 90 MM         |                     |        |       |          |                       |          |       |         |       |         |         |       |                |

TYPE E TAPERED ROLLER BEARINGS



4 BOLT FLANGES

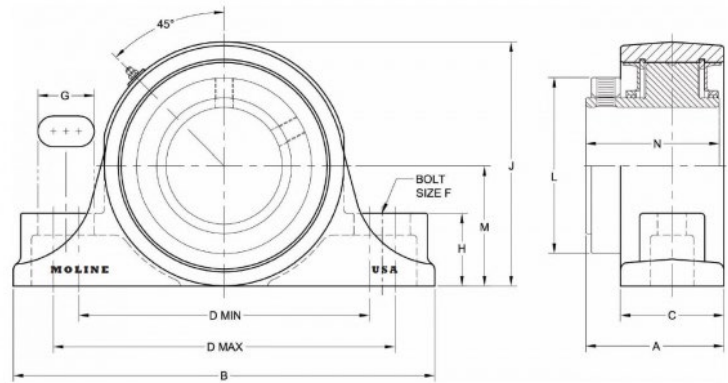
| SHAFT SIZE | MOLINE PART # | DIMENSIONS (INCHES) |       |         |       |      |     |        |         |       | WEIGHT LBS. |
|------------|---------------|---------------------|-------|---------|-------|------|-----|--------|---------|-------|-------------|
|            |               | A                   | B     | C       | D     | E    | F   | H      | J       | L     |             |
| 1 3/16     | 19311103      | 2 3/4               | 3 3/4 | 2 11/32 | 2 7/8 | 1/16 | 3/8 | 1      | 2 15/16 | 2 1/4 | 4.5         |
| 1 1/4      | 19311104      |                     |       |         |       |      |     |        |         |       |             |
| 1 3/8      | 19311106      | 3                   | 4 5/8 | 2 19/32 | 3 1/2 | 1/16 | 1/2 | 1 1/16 | 3 7/8   | 2 3/4 | 6.7         |
| 1 7/16     | 19311107      |                     |       |         |       |      |     |        |         |       |             |
| 35MM       | 19311035      |                     |       |         |       |      |     |        |         |       |             |
| 1 1/2      | 19311108      | 3 3/8               | 5 3/8 | 2 31/32 | 4 1/8 | 1/8  | 1/2 | 1 3/16 | 4 1/4   | 3 1/8 | 10          |
| 1 5/8      | 19311110      |                     |       |         |       |      |     |        |         |       |             |
| 1 11/16    | 19311111      |                     |       |         |       |      |     |        |         |       |             |
| 40MM       | 19311040      |                     |       |         |       |      |     |        |         |       |             |
| 1 3/4      | 19311112      | 3 1/2               | 5 5/8 | 3 3/32  | 4 3/8 | 1/8  | 1/2 | 1 3/16 | 4 1/2   | 3 3/8 | 12          |
| 1 7/8      | 19311114      |                     |       |         |       |      |     |        |         |       |             |
| 1 15/16    | 19311115      |                     |       |         |       |      |     |        |         |       |             |
| 2          | 19311200      |                     |       |         |       |      |     |        |         |       |             |
| 45MM       | 19311045      |                     |       |         |       |      |     |        |         |       |             |
| 50MM       | 19311050      | 3 3/4               | 6 1/4 | 3 9/32  | 4 7/8 | 1/8  | 5/8 | 1 3/8  | 4 7/8   | 3 3/4 | 16          |
| 2 3/16     | 19311203      |                     |       |         |       |      |     |        |         |       |             |
| 55MM       | 19311055      |                     |       |         |       |      |     |        |         |       |             |
| 2 1/4      | 19311204      | 4                   | 6 7/8 | 3 9/16  | 5 3/8 | 3/16 | 5/8 | 1 1/2  | 5 3/4   | 4     | 21          |
| 2 7/16     | 19311207      |                     |       |         |       |      |     |        |         |       |             |
| 2 1/2      | 19311208      |                     |       |         |       |      |     |        |         |       |             |
| 60MM       | 19311060      |                     |       |         |       |      |     |        |         |       |             |
| 65MM       | 19311065      |                     |       |         |       |      |     |        |         |       |             |

POWER TRANSMISSION SUPPLIES

## M2000 TAPERED ROLLER BEARINGS

### FEATURES OF MOLINE M2000 SPHERICAL ROLLER BEARINGS WITH SKF® OR TIMKEN™ ROLLER BEARINGS

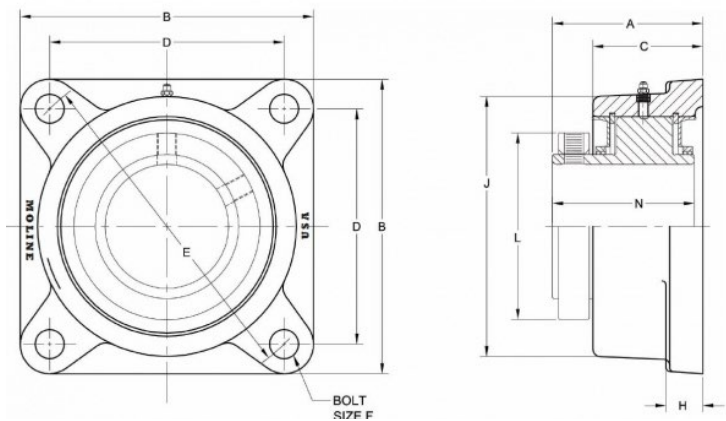
- Available in shaft sizes from 1 3/16 to 5"; and 40 to 130mm
- +/- 1 1/2° misalignment capacity
- Available in Expansion (red tag) and Non-Expansion (yellow tag) styles
- Expansion units have .100" capacity
- Will accommodate moderate thrust loads
- Permits angular misalignment without loss of capacity
- Custom machining and design is available upon request, please call the factory for more information
- Housings are made in the USA of Class 30 cast iron



### 2 BOLT PILLOW BLOCKS

| SHAFT SIZE | MOLINE PART # |          | DIMENSIONS (INCHES) |        |         |         |                    |         |     |         |       |         |       |       |         | WEIGHT LBS. |
|------------|---------------|----------|---------------------|--------|---------|---------|--------------------|---------|-----|---------|-------|---------|-------|-------|---------|-------------|
|            | EXP           | NON-EXP  | A                   | B      | C       | MIN D   | CENTER TO CENTER D | MAX D   | F   | G       | H     | J       | L     | M     | N       |             |
| 1.1875     | 19121103      | 19221103 |                     |        |         |         |                    |         |     |         |       |         |       |       |         | 6.5         |
| 1.25       | 19121104      | 19221104 |                     |        |         |         |                    |         |     |         |       |         |       |       |         | 6.5         |
| 1.4375     | 19121107      | 19221107 | 2 7/8               | 6 7/8  | 2 3/16  | 4 11/16 | 5                  | 5 5/16  | 1/2 | 15/16   | 13/16 | 3 7/8   | 2 1/2 | 1 7/8 | 2 3/4   | 6.9         |
| 1.5        | 19121108      | 19221108 |                     |        |         |         |                    |         |     |         |       |         |       |       |         | 6.9         |
| 1 11/16    | 19121111      | 19221111 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 1 3/4      | 19121112      | 19221112 | 3                   | 7 3/8  | 2 3/16  | 5 3/16  | 5 1/2              | 5 13/16 | 1/2 | 15/16   | 15/16 | 4 1/4   | 2 5/8 | 2 1/8 | 2 7/8   | 8.1         |
| 40MM       | 19121040      | 19221040 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 45MM       | 19121045      | 19221045 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 1 15/16    | 19121115      | 19221115 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 2          | 19121200      | 19221200 | 3                   | 8 3/8  | 2 3/16  | 5 15/16 | 6 1/4              | 6 9/16  | 5/8 | 1       | 1 3/8 | 4 9/16  | 2 7/8 | 2 1/4 | 2 7/8   | 9.1         |
| 50MM       | 19121050      | 19221050 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 2 3/16     | 19121203      | 19221203 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 2 1/4      | 19121204      | 19221204 | 3 1/4               | 8 7/8  | 2 1/2   | 6 7/16  | 6 3/4              | 7 1/16  | 5/8 | 1       | 1 5/8 | 5       | 3 1/4 | 2 1/2 | 3 1/8   | 11.8        |
| 55MM       | 19121055      | 19221055 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 2 7/16     | 19121207      | 19221207 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 2 1/2      | 19121208      | 19221208 | 3 1/2               | 9 1/4  | 2 3/4   | 6 13/16 | 7 1/8              | 7 7/16  | 5/8 | 1       | 1 3/4 | 5 11/16 | 4     | 2 3/4 | 3 3/8   | 16.2        |
| 60MM       | 19121060      | 19221060 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 65MM       | 19121065      | 19221065 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 2 11/16    | 19121211      | 19221211 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 2 3/4      | 19121212      | 19221212 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 2 15/16    | 19121215      | 19221215 | 3 13/16             | 10 1/2 | 2 13/16 | 7 13/16 | 8 1/8              | 8 7/16  | 3/4 | 1 1/8   | 2 1/4 | 6 7/16  | 4 3/8 | 3 1/4 | 3 5/8   | 22.1        |
| 3          | 19121300      | 19221300 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 70MM       | 19121070      | 19221070 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 75MM       | 19121075      | 19221075 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 3 3/16     | 19121303      | 19221303 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 3 7/16     | 19121307      | 19221307 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 3 1/2      | 19121308      | 19221308 | 4 1/4               | 13     | 3 1/4   | 9 1/2   | 10                 | 10 1/2  | 7/8 | 1 7/16  | 2 1/4 | 7 1/2   | 5 1/8 | 3 3/4 | 4 1/32  | 31.6        |
| 80MM       | 19121080      | 19221080 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 85MM       | 19121085      | 19221085 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 90MM       | 19121090      | 19221090 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 3 11/16    | 19121311      | 19221311 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 3 15/16    | 19121315      | 19221315 | 4 3/4               | 14 1/2 | 3 9/16  | 10      | 10 7/8             | 11 3/4  | 1   | 1 15/16 | 2 1/2 | 8 3/8   | 6     | 4 1/8 | 4 19/32 | 45          |
| 4          | 19121400      | 19221400 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |
| 100MM      | 19121100      | 19221100 |                     |        |         |         |                    |         |     |         |       |         |       |       |         |             |

M2000 TAPERED ROLLER BEARINGS



4 BOLT FLANGES

| SHAFT SIZE | MOLINE PART # |          | DIMENSIONS (INCHES) |       |        |         |        |     |        |       |       |         |      | WEIGHT<br>LBS. |
|------------|---------------|----------|---------------------|-------|--------|---------|--------|-----|--------|-------|-------|---------|------|----------------|
|            | EXP           | NON-EXP  | A                   | B     | C      | D       | E      | F   | H      | J     | L     | N       |      |                |
| 1 3/16     | 19111103      | 19211103 | 2 15/16             | 4 5/8 | 2 1/4  | 3 17/32 | 5      | 1/2 | 3/4    | 3 7/8 | 2 1/2 | 2 3/4   | 7    |                |
| 1 1/4      | 19111104      | 19211104 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 1 7/16     | 19111107      | 19211107 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 1 1/2      | 19111108      | 19211108 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 1 11/16    | 19111111      | 19211111 | 3 1/16              | 5     | 2 1/4  | 3 57/64 | 5 1/2  | 1/2 | 3/4    | 4 1/4 | 2 5/8 | 2 7/8   | 10   |                |
| 1 3/4      | 19111112      | 19211112 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 40MM       | 19111040      | 19211040 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 45MM       | 19111045      | 19211045 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 1 15/16    | 19111115      | 19211115 | 3 1/32              | 5 1/4 | 2 1/4  | 4 1/16  | 5 3/4  | 1/2 | 3/4    | 4 1/2 | 2 7/8 | 2 7/8   | 10.5 |                |
| 2          | 19111200      | 19211200 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 50MM       | 19111050      | 19211050 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 2 3/16     | 19111203      | 19211203 | 3 9/32              | 5 7/8 | 2 7/16 | 4 1/2   | 6 3/8  | 5/8 | 3/4    | 5     | 3 1/4 | 3 1/8   | 12.5 |                |
| 2 1/4      | 19111204      | 19211204 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 55MM       | 19111055      | 19211055 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 2 7/16     | 19111207      | 19211207 | 3 9/16              | 6 1/8 | 2 3/4  | 4 25/32 | 6 3/4  | 5/8 | 1      | 5 3/4 | 4     | 3 3/8   | 16.5 |                |
| 2 1/2      | 19111208      | 19211208 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 60MM       | 19111060      | 19211060 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 65MM       | 19111065      | 19211065 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 2 11/16    | 19111211      | 19211211 | 3 15/16             | 7 1/4 | 2 7/8  | 5 9/16  | 7 7/8  | 3/4 | 1      | 6 5/8 | 4 3/8 | 3 5/8   | 25   |                |
| 2 3/4      | 19111212      | 19211212 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 2 15/16    | 19111215      | 19211215 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 3          | 19111300      | 19211300 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 70MM       | 19111070      | 19211070 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 75MM       | 19111075      | 19211075 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 3 3/16     | 19111303      | 19211303 | 4 11/32             | 8 3/8 | 3 1/4  | 6 23/32 | 9 1/2  | 3/4 | 1 1/8  | 7 5/8 | 5 1/8 | 4 1/32  | 35   |                |
| 3 7/16     | 19111307      | 19211307 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 3 1/2      | 19111308      | 19211308 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 80MM       | 19111080      | 19211080 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 85MM       | 19111085      | 19211085 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 90MM       | 19111090      | 19211090 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 3 11/16    | 19111311      | 19211311 | 4 7/8               | 9 1/2 | 3 9/16 | 7 19/32 | 10 3/4 | 7/8 | 1 3/16 | 8 3/8 | 6     | 4 19/32 | 48   |                |
| 3 15/16    | 19111315      | 19211315 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 4          | 19111400      | 19211400 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 100MM      | 19111100      | 19211100 |                     |       |        |         |        |     |        |       |       |         |      |                |

POWER TRANSMISSION SUPPLIES

## SPECIAL AG BEARINGS



| Part #     | Bearing #  | Fafnir Part # | John Deere Part # | Bore Size | Bearing OD | IR Width | OR Width |
|------------|------------|---------------|-------------------|-----------|------------|----------|----------|
| B99502H    | 99502H     | -             | JD8570            | .625      | 1.375      | -        | .4331    |
| BZ95042RST | Z95042RST* | P204RR6       | JD9239, JD9296    | .750      | 1.7805     | -        | .610     |
| B203KRR2   | 203KRR2**  | 203KRR2       | JD9214            | .640      | 1.57       | 0.72     | .470     |
| B203KRR3   | 203KRR3    | 203KRR3       | JD8646            | .625      | 2          | -        | .5906    |

\*Cultivators, Gauge Wheels, Planters, Etc. \*\*Planters, Gauge Wheels, Rotary Hoes, Etc.

## ROD ENDS

## DIMENSIONS

| Size (B) | Thread Size | A     | C     | D     |
|----------|-------------|-------|-------|-------|
| 1/4      | 1/4-28      | 0.750 | 0.468 | 1.312 |
| 5/16     | 5/16-24     | 0.875 | 0.500 | 1.375 |
| 3/8      | 3/8-24      | 1.000 | 0.687 | 1.625 |
| 7/16     | 7/16-20     | 1.125 | 0.750 | 1.812 |
| 5/8      | 5/8-18      | 1.500 | 1.000 | 2.500 |

## FEMALE RIGHT HAND THREAD • NO ZERK

These Rod Ends have a body made of low carbon steel which is zinc plated. The ball is made from 52100 bearing steel with a minimum Rockwell hardness of C56 and it is hard chrome plated.

| Part #   | Size   | Description                                                 |
|----------|--------|-------------------------------------------------------------|
| BRECF04  | 1/4    | CF4 1/4 Female Rod End 2 Pc.                                |
| BRECF05  | 5/16   | CF5 5/16 Female Rod End 2 Pc                                |
| BRECF06  | 3/8    | CW-06 3/8 Female Rod End 2 Pc.                              |
| BRECF7T  | 7/16   | CF7T 7/16 Female Rod End Steel w/Teflon (F2 fit)            |
| BRECF7T  | 7/16   | CFL7T 7/16 Female Rod End Steel w/Teflon Left Hand (F2 fit) |
| BRECF5YZ | 5/16   | CF5YZ 5/16 Female Rod End 2 pc Steel w/Stud & Zerk          |
| BRECF5Y  | 5/16   | CF5Y 5/16 Female Rod End 2 pc Steel w/Stud                  |
| BRECF6Y  | 3/8    | CF6Y 3/8 Female Rod End 2 pc Steel w/Stud                   |
| BRECF10  | 5/8-18 | CW-10 5/8-18 Female Rod End Right Hand Thread               |
| BRECM10  | 5/8-18 | ECM10 5/8-18 Male Rod End Right Hand Thread                 |





## BORED-TO SIZE CAST IRON PULLEYS

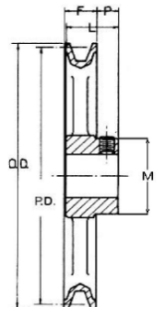
## BORED-TO SIZE CAST IRON PULLEYS

### STANDARD KEY DIMENSIONS

| Shaft Dia.   | Key Seat W X D |
|--------------|----------------|
| 1/2          | NONE           |
| 5/8-7/8      | 3/16 X 3/32    |
| 15/16-1 1/4  | 1/4 X 1/8      |
| 1 5/16-1 3/8 | 5/16 X 5/32    |
| 1 7/16-1 3/4 | 3/8 X 3/16     |

### SINGLE GROOVE

Bored-to-size pulleys are light duty cast iron pulleys. The AK pulleys are for 3L or A belts. The BK pulleys are for A or B belts.



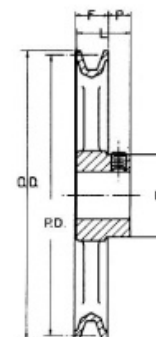
| Part #    | Pulley Part # | OD   | F     | P    | M   | Part #    | Pulley Part # | OD   | F     | P     | M   |
|-----------|---------------|------|-------|------|-----|-----------|---------------|------|-------|-------|-----|
| EQMAK1708 | AK17 X 1/2    | 1.75 | 21/32 | 7/16 | 1.6 | EQMAK3010 | AK30 X 5/8    | 3.05 | 21/32 | 7/16  | 1.6 |
| EQMAK1710 | AK17 X 5/8    | 1.75 | 21/32 | 7/16 | 1.6 | EQMAK3012 | AK30 X 3/4    | 3.05 | 21/32 | 7/16  | 1.6 |
| EQMAK2008 | AK20 X 1/2    | 2.0  | 21/32 | 7/16 | 1.6 | EQMAK3014 | AK30 X 7/8    | 3.05 | 21/32 | 7/16  | 1.6 |
| EQMAK2010 | AK20 X 5/8    | 2.0  | 21/32 | 7/16 | 1.6 | EQMAK3016 | AK30 X 1      | 3.05 | 21/32 | 7/16  | 1.7 |
| EQMAK2012 | AK20 X 3/4    | 2.0  | 21/32 | 7/16 | 1.6 | EQMAK3210 | AK32 X 5/8    | 3.25 | 21/32 | 7/16  | 1.6 |
| EQMAK2110 | AK21 X 5/8    | 2.1  | 21/32 | 7/16 | 1.6 | EQMAK3212 | AK32 X 3/4    | 3.25 | 21/32 | 7/16  | 1.6 |
| EQMAK2208 | AK22 X 1/2    | 2.2  | 21/32 | 7/16 | 1.6 | EQMAK3214 | AK32 X 7/8    | 3.25 | 21/32 | 7/16  | 1.6 |
| EQMAK2210 | AK22 X 5/8    | 2.2  | 21/32 | 7/16 | 1.6 | EQMAK3408 | AK34 X 1/2    | 3.45 | 21/32 | 7/16  | 1.6 |
| EQMAK2212 | AK22 X 3/4    | 2.2  | 21/32 | 7/16 | 1.6 | EQMAK3410 | AK34 X 5/8    | 3.45 | 21/32 | 7/16  | 1.6 |
| EQMAK2310 | AK23 X 5/8    | 2.3  | 21/32 | 7/16 | 1.6 | EQMAK3412 | AK34 X 3/4    | 3.45 | 21/32 | 7/16  | 1.6 |
| EQMAK2312 | AK23 X 3/4    | 2.3  | 21/32 | 7/16 | 1.6 | EQMAK3414 | AK34 X 7/8    | 3.45 | 21/32 | 7/16  | 1.6 |
| EQMAK2508 | AK25 X 1/2    | 2.5  | 21/32 | 7/16 | 1.6 | EQMAK3416 | AK34 X 1      | 3.45 | 21/32 | 7/16  | 1.7 |
| EQMAK2510 | AK25 X 5/8    | 2.5  | 21/32 | 7/16 | 1.6 | EQMAK3908 | AK39 X 1/2    | 3.75 | 3/4   | 15/32 | 1.6 |
| EQMAK2512 | AK25 X 3/4    | 2.5  | 21/32 | 7/16 | 1.6 | EQMAK3910 | AK39 X 5/8    | 3.75 | 3/4   | 15/32 | 1.6 |
| EQMAK2514 | AK25 X 7/8    | 2.5  | 21/32 | 7/16 | 1.6 | EQMAK3912 | AK39 X 3/4    | 3.75 | 3/4   | 15/32 | 1.6 |
| EQMAK2708 | AK27 X 1/2    | 2.7  | 21/32 | 7/16 | 1.6 | EQMAK3914 | AK39 X 7/8    | 3.75 | 3/4   | 15/32 | 1.6 |
| EQMAK2710 | AK27 X 5/8    | 2.7  | 21/32 | 7/16 | 1.6 | EQMAK3916 | AK39 X 1      | 3.75 | 3/4   | 15/32 | 1.7 |
| EQMAK2712 | AK27 X 3/4    | 2.7  | 21/32 | 7/16 | 1.6 | EQMAK4108 | AK41 X 1/2    | 3.95 | 3/4   | 15/32 | 1.6 |
| EQMAK2714 | AK27 X 7/8    | 2.7  | 21/32 | 7/16 | 1.6 | EQMAK4110 | AK41 X 5/8    | 3.95 | 3/4   | 15/32 | 1.6 |
| EQMAK2808 | AK28 X 1/2    | 2.8  | 21/32 | 7/16 | 1.6 | EQMAK4112 | AK41 X 3/4    | 3.95 | 3/4   | 15/32 | 1.6 |
| EQMAK2810 | AK28 X 5/8    | 2.8  | 21/32 | 7/16 | 1.6 | EQMAK4114 | AK41 X 7/8    | 3.95 | 3/4   | 15/32 | 1.6 |
| EQMAK2812 | AK28 X 3/4    | 2.8  | 21/32 | 7/16 | 1.6 | EQMAK4116 | AK41 X 1      | 3.95 | 3/4   | 15/32 | 1.7 |
| EQMAK2814 | AK28 X 7/8    | 2.8  | 21/32 | 7/16 | 1.6 | EQMAK4410 | AK44 X 5/8    | 4.25 | 3/4   | 15/32 | 1.6 |
| EQMAK2816 | AK28 X 1      | 2.8  | 21/32 | 7/16 | 1.7 | EQMAK4412 | AK44 X 3/4    | 4.25 | 3/4   | 15/32 | 1.6 |
| EQMAK3008 | AK30 X 1/2    | 3.05 | 21/32 | 7/16 | 1.6 | EQMAK4414 | AK44 X 7/8    | 4.25 | 3/4   | 15/32 | 1.6 |

## SINGLE GROOVE

| Part #    | Pulley Part # | OD   | F     | P     | M   | Part #    | Pulley Part # | OD   | F     | P     | M   |
|-----------|---------------|------|-------|-------|-----|-----------|---------------|------|-------|-------|-----|
| EQMAK4416 | AK44 X 1      | 4.25 | 3/4   | 15/32 | 1.7 | EQMBK3212 | BK32 X 3/4    | 3.35 | 13/16 | 13/32 | 1.6 |
| EQMAK4610 | AK46 X 5/8    | 4.45 | 3/4   | 15/32 | 1.6 | EQMBK3214 | BK32 X 7/8    | 3.35 | 13/16 | 13/32 | 1.6 |
| EQMAK4612 | AK46 X 3/4    | 4.45 | 3/4   | 15/32 | 1.6 | EQMBK3216 | BK32 X 1      | 3.35 | 13/16 | 13/32 | 1.7 |
| EQMAK4616 | AK46 X 1      | 4.45 | 3/4   | 15/32 | 1.7 | EQMBK3408 | BK34 X 1/2    | 3.55 | 7/8   | 13/32 | 1.6 |
| EQMAK4912 | AK49 X 3/4    | 4.75 | 3/4   | 15/32 | 1.6 | EQMBK3410 | BK34 X 5/8    | 3.55 | 7/8   | 13/32 | 1.6 |
| EQMAK5110 | AK51 X 5/8    | 4.95 | 3/4   | 15/32 | 1.6 | EQMBK3412 | BK34 X 3/4    | 3.55 | 7/8   | 13/32 | 1.6 |
| EQMAK5112 | AK51 X 3/4    | 4.95 | 3/4   | 15/32 | 1.6 | EQMBK3414 | BK34 X 7/8    | 3.55 | 7/8   | 13/32 | 1.6 |
| EQMAK5114 | AK51 X 7/8    | 4.95 | 3/4   | 15/32 | 1.6 | EQMBK3416 | BK34 X 1      | 3.55 | 7/8   | 13/32 | 1.7 |
| EQMAK7110 | AK71 X 5/8    | 6.95 | 3/4   | 15/32 | 1.6 | EQMBK3418 | BK34 X 1 1/8  | 3.55 | 7/8   | 13/32 | 1.9 |
| EQMAK7116 | AK71 X 1      | 6.95 | 3/4   | 23/32 | 1.7 | EQMBK3610 | BK36 X 5/8    | 3.75 | 7/8   | 13/32 | 1.6 |
| EQMBK2008 | MB20 X 1/2    | 2.0  | 7/8   | 5/8   | 1.4 | EQMBK3612 | BK36 X 3/4    | 3.75 | 7/8   | 13/32 | 1.6 |
| EQMBK2010 | MB20 X 5/8    | 2.0  | 7/8   | 5/8   | 1.4 | EQMBK3614 | BK36 X 7/8    | 3.75 | 7/8   | 13/32 | 1.6 |
| EQMBK2012 | MB20 X 3/4    | 2.0  | 7/8   | 5/8   | 1.4 | EQMBK3616 | BK36 X 1      | 3.75 | 7/8   | 13/32 | 1.7 |
| EQMBK2408 | BK24 X 1/2    | 2.4  | 13/16 | 13/32 | 1.6 | EQMBK3618 | BK36 X 1 1/8  | 3.75 | 7/8   | 13/32 | 1.9 |
| EQMBK2410 | BK24 X 5/8    | 2.4  | 13/16 | 13/32 | 1.6 | EQMBK4008 | BK40 X 1/2    | 3.95 | 7/8   | 13/32 | 1.6 |
| EQMBK2412 | BK24 X 3/4    | 2.4  | 13/16 | 13/32 | 1.6 | EQMBK4010 | BK40 X 5/8    | 3.95 | 7/8   | 13/32 | 1.6 |
| EQMBK2414 | BK24 X 7/8    | 2.4  | 13/16 | 13/32 | 1.6 | EQMBK4012 | BK40 X 3/4    | 3.95 | 7/8   | 13/32 | 1.6 |
| EQMBK2508 | BK25 X 1/2    | 2.5  | 13/16 | 13/32 | 1.6 | EQMBK4014 | BK40 X 7/8    | 3.95 | 7/8   | 13/32 | 1.6 |
| EQMBK2510 | BK25 X 5/8    | 2.5  | 13/16 | 13/32 | 1.6 | EQMBK4016 | BK40 X 1      | 3.95 | 7/8   | 13/32 | 1.7 |
| EQMBK2512 | BK25 X 3/4    | 2.5  | 13/16 | 13/32 | 1.6 | EQMBK4018 | BK40 X 1 1/8  | 3.95 | 7/8   | 13/32 | 1.9 |
| EQMBK2514 | BK25 X 7/8    | 2.5  | 13/16 | 13/32 | 1.6 | EQMBK4510 | BK45 X 5/8    | 4.25 | 7/8   | 13/32 | 1.6 |
| EQMBK2516 | BK25 X 1      | 2.5  | 13/16 | 13/32 | 1.6 | EQMBK4512 | BK45 X 3/4    | 4.25 | 7/8   | 13/32 | 1.6 |
| EQMBK2610 | BK26 X 5/8    | 2.6  | 13/16 | 13/32 | 1.6 | EQMBK4514 | BK45 X 7/8    | 4.25 | 7/8   | 13/32 | 1.6 |
| EQMBK2612 | BK26 X 3/4    | 2.6  | 13/16 | 13/32 | 1.6 | EQMBK4516 | BK45 X 1      | 4.25 | 7/8   | 13/32 | 1.7 |
| EQMBK2710 | BK27 X 5/8    | 2.7  | 13/16 | 13/32 | 1.6 | EQMBK4518 | BK45 X 1 1/8  | 4.25 | 7/8   | 13/32 | 1.9 |
| EQMBK2712 | BK27 X 3/4    | 2.7  | 13/16 | 13/32 | 1.6 | EQMBK4710 | BK47 X 5/8    | 4.45 | 7/8   | 13/32 | 1.6 |
| EQMBK2714 | BK27 X 7/8    | 2.7  | 13/16 | 13/32 | 1.6 | EQMBK4716 | BK47 X 1      | 4.45 | 7/8   | 13/32 | 1.7 |
| EQMBK2716 | BK27 X 1      | 2.7  | 13/16 | 13/32 | 1.7 | EQMBK5010 | BK50 X 5/8    | 4.95 | 7/8   | 13/32 | 1.6 |
| EQMBK2808 | BK28 X 1/2    | 2.95 | 13/16 | 13/32 | 1.6 | EQMBK5012 | BK50 X 3/4    | 4.95 | 7/8   | 13/32 | 1.6 |
| EQMBK2810 | BK28 X 5/8    | 2.95 | 13/16 | 13/32 | 1.6 | EQMBK5014 | BK50 X 7/8    | 4.95 | 7/8   | 13/32 | 1.6 |
| EQMBK2812 | BK28 X 3/4    | 2.95 | 13/16 | 13/32 | 1.6 | EQMBK5016 | BK50 X 1      | 4.95 | 7/8   | 13/32 | 1.7 |
| EQMBK2814 | BK28 X 7/8    | 2.95 | 13/16 | 13/32 | 1.6 | EQMBK5018 | BK50 X 1 1/8  | 4.75 | 7/8   | 13/32 | 1.9 |
| EQMBK2816 | BK28 X 1      | 2.95 | 13/16 | 13/32 | 1.7 | EQMBK5210 | BK52 X 5/8    | 4.95 | 7/8   | 13/32 | 1.6 |
| EQMBK2818 | BK28 X 1 1/8  | 2.95 | 13/16 | 13/32 | 1.9 | EQMBK5212 | BK52 X 3/4    | 4.95 | 7/8   | 13/32 | 1.6 |
| EQMBK3008 | BK30 X 1/2    | 3.15 | 13/16 | 13/32 | 1.6 | EQMBK5216 | BK52 X 1      | 4.95 | 7/8   | 13/32 | 1.7 |
| EQMBK3010 | BK30 X 5/8    | 3.15 | 13/16 | 13/32 | 1.6 | EQMBK5512 | BK55 X 3/4    | 5.25 | 7/8   | 13/32 | 1.6 |
| EQMBK3012 | BK30 X 3/4    | 3.15 | 13/16 | 13/32 | 1.6 | EQMBK5516 | BK55 X 1      | 5.25 | 7/8   | 13/32 | 1.7 |
| EQMBK3014 | BK30 X 7/8    | 3.15 | 13/16 | 13/32 | 1.6 | EQMBK6010 | BK60 X 5/8    | 5.75 | 7/8   | 13/32 | 1.6 |
| EQMBK3016 | BK30 X 1      | 3.15 | 13/16 | 13/32 | 1.7 | EQMBK6012 | BK60 X 3/4    | 5.75 | 7/8   | 13/32 | 1.6 |
| EQMBK3018 | BK30 X 1 1/8  | 3.15 | 13/16 | 13/32 | 1.9 | EQMBK6014 | BK60 X 7/8    | 5.75 | 7/8   | 13/32 | 1.6 |
| EQMBK3210 | BK32 X 5/8    | 3.35 | 13/16 | 13/32 | 1.6 | EQMBK6016 | BK60 X 1      | 5.75 | 7/8   | 13/32 | 1.7 |

# BORED-TO SIZE CAST IRON PULLEYS

## DOUBLE GROOVE



| Part #     | Pulley Part # | OD   | F     | P     | M   |
|------------|---------------|------|-------|-------|-----|
| EQM2AK2710 | 2AK27 X 5/8   | 2.75 | 1 3/8 | 15/32 | 1.8 |
| EQM2AK3210 | 2AK32 X 5/8   | 3.25 | 1 3/8 | 15/32 | 1.9 |
| EQM2AK4616 | 2AK46 X 1     | 4.45 | 1 3/8 | 15/32 | 1.8 |
| EQM2BK2510 | 2BK25 X 5/8   | 2.5  | 1 3/4 | 15/32 | 1.6 |
| EQM2BK2512 | 2BK25 X 3/4   | 2.5  | 1 3/4 | 15/32 | 1.6 |
| EQM2BK2514 | 2BK25 X 7/8   | 2.5  | 1 3/4 | 15/32 | 1.6 |
| EQM2BK2810 | 2BK28 X 5/8   | 2.95 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK2812 | 2BK28 X 3/4   | 2.95 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK2814 | 2BK28 X 7/8   | 2.95 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK2816 | 2BK28 X 1     | 2.95 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK2818 | 2BK28 X 1 1/8 | 2.95 | 1 3/4 | 15/32 | 1.9 |

| Part #     | Pulley Part # | OD   | F     | P     | M   |
|------------|---------------|------|-------|-------|-----|
| EQM2BK3012 | 2BK30 X 3/4   | 3.15 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK3014 | 2BK30 X 7/8   | 3.15 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK3016 | 2BK30 X 1     | 3.15 | 1 3/4 | 15/32 | 2.2 |
| EQM2BK3018 | 2BK30 X 1 1/8 | 3.15 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK3022 | 2BK30 X 1 3/8 | 3.15 | 1 3/4 | 15/32 | 2.4 |
| EQM2BK3410 | 2BK34 X 5/8   | 3.55 | 1 3/4 | 15/32 | 1.6 |
| EQM2BK3414 | 2BK34 X 7/8   | 3.55 | 1 3/4 | 15/32 | 1.6 |
| EQM2BK3416 | 2BK34 X 1     | 3.55 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK3418 | 2BK34 X 1 1/8 | 3.55 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK3618 | 2BK36 X 1 1/8 | 3.75 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK3622 | 2BK36 X 1 3/8 | 3.75 | 1 3/4 | 15/32 | 2.4 |

## H BUSHED CAST IRON PULLEYS

## SINGLE GROOVE

H Bushed Pulleys are light duty cast iron pulleys and are used with a 2 bolt H bushing. The AK pulleys are for 3L or A belts. The BK pulleys are for A or B belts.



| Part #    | Pulley Part # | OD    | Width* | Part #    | Pulley Part # | OD    | Width* |
|-----------|---------------|-------|--------|-----------|---------------|-------|--------|
| EQMAK30H  | AK30H         | 3.05  | 1 5/8  | EQMBK45H  | BK45H         | 4.25  | 1 5/16 |
| EQMAK32H  | AK32H         | 3.25  | 1 5/8  | EQMBK47H  | BK47H         | 4.45  | 1 5/16 |
| EQMAK34H  | AK34H         | 3.45  | 1 5/16 | EQMBK50H  | BK50H         | 4.75  | 1 5/16 |
| EQMAK39H  | AK39H         | 3.75  | 1 5/16 | EQMBK52H  | BK52H         | 4.95  | 1 5/16 |
| EQMAK41H  | AK41H         | 3.95  | 1 5/16 | EQMBK55H  | BK55H         | 5.25  | 1 5/16 |
| EQMAK44H  | AK44H         | 4.25  | 1 5/16 | EQMBK57H  | BK57H         | 5.45  | 1 5/16 |
| EQMAK46H  | AK46H         | 4.45  | 1 5/16 | EQMBK60H  | BK60H         | 5.75  | 1 5/16 |
| EQMAK49H  | AK49H         | 4.75  | 1 5/16 | EQMBK62H  | BK62H         | 5.95  | 1 5/16 |
| EQMAK51H  | AK51H         | 4.95  | 1 5/16 | EQMBK65H  | BK65H         | 6.25  | 1 5/16 |
| EQMAK54H  | AK54H         | 5.25  | 1 5/16 | EQMBK67H  | BK67H         | 6.45  | 1 5/16 |
| EQMAK56H  | AK56H         | 5.45  | 1 5/16 | EQMBK70H  | BK70H         | 6.75  | 1 3/8  |
| EQMAK59H  | AK59H         | 5.75  | 1 5/16 | EQMBK72H  | BK72H         | 6.95  | 1 3/8  |
| EQMAK61H  | AK61H         | 5.95  | 1 5/16 | EQMBK75H  | BK75H         | 7.25  | 1 3/8  |
| EQMAK64H  | AK64H         | 6.25  | 1 5/16 | EQMBK77H  | BK77H         | 7.45  | 1 3/8  |
| EQMAK66H  | AK66H         | 6.45  | 1 5/16 | EQMBK80H  | BK80H         | 7.75  | 1 3/8  |
| EQMAK69H  | AK69H         | 6.75  | 1 5/16 | EQMBK85H  | BK85H         | 8.25  | 1 3/8  |
| EQMAK71H  | AK71H         | 6.95  | 1 5/16 | EQMBK90H  | BK90H         | 8.75  | 1 3/8  |
| EQMAK74H  | AK74H         | 7.25  | 1 5/16 | EQMBK95H  | BK95H         | 9.25  | 1 3/8  |
| EQMAK79H  | AK79H         | 7.75  | 1 5/16 | EQMBK100H | BK100H        | 9.75  | 1 3/8  |
| EQMAK84H  | AK84H         | 8.25  | 1 5/16 | EQMBK105H | BK105H        | 10.25 | 1 3/8  |
| EQMAK94H  | AK94H         | 9.25  | 1 5/16 | EQMBK110H | BK110H        | 10.75 | 1 3/8  |
| EQMAK104H | AK104H        | 10.25 | 1 5/16 | EQMBK120H | BK120H        | 11.75 | 1 3/8  |
| EQMAK124H | AK124H        | 12.25 | 1 5/16 | EQMBK130H | BK130H        | 12.75 | 1 3/8  |
| EQMBK30H  | BK30H         | 3.15  | 1 3/4  | EQMBK140H | BK140H        | 13.75 | 1 3/8  |
| EQMBK32H  | BK32H         | 3.35  | 1 3/4  | EQMBK150H | BK150H        | 14.75 | 1 3/8  |
| EQMBK34H  | BK34H         | 3.55  | 1 3/4  | EQMBK160H | BK160H        | 15.75 | 1 3/8  |
| EQMBK36H  | BK36H         | 3.75  | 1 5/16 | EQMBK190H | BK190H        | 18.75 | 1 3/8  |
| EQMBK40H  | BK40H         | 3.95  | 1 5/16 |           |               |       |        |

# H BUSHED CAST IRON PULLEYS

## DOUBLE GROOVE



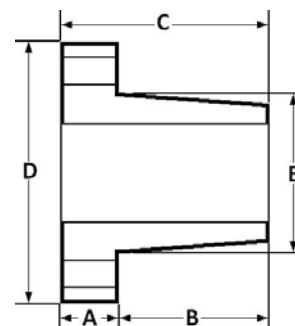
| Part #     | Pulley Part # | OD    | Width* |
|------------|---------------|-------|--------|
| EQM2AK30H  | 2AK30H        | 3.05  | 2 5/8  |
| EQM2AK32H  | 2AK32H        | 3.25  | 2 5/8  |
| EQM2AK34H  | 2AK34H        | 3.45  | 2 3/16 |
| EQM2AK39H  | 2AK39H        | 3.75  | 2 3/16 |
| EQM2AK41H  | 2AK41H        | 3.95  | 1 3/4  |
| EQM2AK44H  | 2AK44H        | 4.25  | 1 3/4  |
| EQM2AK46H  | 2AK46H        | 4.45  | 1 3/4  |
| EQM2AK49H  | 2AK49H        | 4.75  | 1 3/4  |
| EQM2AK51H  | 2AK51H        | 4.95  | 1 3/4  |
| EQM2AK54H  | 2AK54H        | 5.25  | 1 3/4  |
| EQM2AK56H  | 2AK56H        | 5.45  | 1 3/4  |
| EQM2AK59H  | 2AK59H        | 5.75  | 1 3/4  |
| EQM2AK61H  | 2AK61H        | 5.95  | 1 3/4  |
| EQM2AK64H  | 2AK64H        | 6.25  | 1 3/4  |
| EQM2AK74H  | 2AK74H        | 7.25  | 1 3/4  |
| EQM2AK84H  | 2AK84H        | 8.25  | 1 3/4  |
| EQM2AK94H  | 2AK94H        | 9.25  | 1 3/4  |
| EQM2AK104H | 2AK104H       | 10.25 | 1 3/4  |
| EQM2AK114H | 2AK114H       | 11.25 | 1 3/4  |
| EQM2AK124H | 2AK124H       | 12.25 | 1 3/4  |
| EQM2BK32H  | 2BK32H        | 3.35  | 2 5/8  |
| EQM2BK34H  | 2BK34H        | 3.55  | 2 5/8  |
| EQM2BK36H  | 2BK36H        | 3.75  | 2 3/16 |

| Part #     | Pulley Part # | OD    | Width* |
|------------|---------------|-------|--------|
| EQM2BK40H  | 2BK40H        | 3.95  | 2 3/16 |
| EQM2BK45H  | 2BK45H        | 4.25  | 2 3/16 |
| EQM2BK47H  | 2BK47H        | 4.45  | 1 3/4  |
| EQM2BK50H  | 2BK50H        | 4.75  | 1 3/4  |
| EQM2BK52H  | 2BK52H        | 4.95  | 1 3/4  |
| EQM2BK55H  | 2BK55H        | 5.25  | 1 3/4  |
| EQM2BK57H  | 2BK57H        | 5.45  | 1 3/4  |
| EQM2BK60H  | 2BK60H        | 5.75  | 1 3/4  |
| EQM2BK62H  | 2BK62H        | 5.95  | 1 3/4  |
| EQM2BK65H  | 2BK65H        | 6.25  | 1 3/4  |
| EQM2BK67H  | 2BK67H        | 6.45  | 1 3/4  |
| EQM2BK70H  | 2BK70H        | 6.75  | 1 3/4  |
| EQM2BK80H  | 2BK80H        | 7.75  | 1 3/4  |
| EQM2BK90H  | 2BK90H        | 8.75  | 1 3/4  |
| EQM2BK100H | 2BK100H       | 9.75  | 1 3/4  |
| EQM2BK110H | 2BK110H       | 10.75 | 1 3/4  |
| EQM2BK120H | 2BK120H       | 11.75 | 1 3/4  |
| EQM2BK130H | 2BK130H       | 12.75 | 1 3/4  |
| EQM2BK140H | 2BK140H       | 13.75 | 1 3/4  |
| EQM2BK160H | 2BK160H       | 15.75 | 1 3/4  |
| EQM2BK190H | 2BK190H       | 18.75 | 1 3/4  |

\*Width includes the bushing where applicable.

## H BUSHINGS

## DIMENSIONS



| Bushing | A     | B | C       | D     | E     | Bolts Required | Bolt Size |
|---------|-------|---|---------|-------|-------|----------------|-----------|
| H       | 11/32 | 1 | 1 11/32 | 2 1/2 | 2 1/2 | 2              | 1/4 X 1   |
| H-STL   | 1/4   | 1 | 1 1/4   | 2 1/2 | 2 1/2 | 2              | 1/4 X 3/4 |

| Bore Size                              | Key Seat    |
|----------------------------------------|-------------|
| 3/8, 7/16                              | NONE        |
| 1/2, 9/16                              | 1/8 X 1/16  |
| 5/8, 11/16, 3/4, 13/16, 7/8            | 3/16 X 3/32 |
| 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4 | 1/4 X 1/8   |
| 1 5/16, 1 3/8                          | 5/16 X 1/16 |
| 1 7/16, 1 1/2                          | 3/8 X 1/16  |



| Part # | Bushing Part # | Part #  | Bushing Part # |
|--------|----------------|---------|----------------|
| EQMH07 | H X 7/16       | EQMH20  | H X 1 1/4      |
| EQMH08 | H X 1/2        | EQMH22  | H X 1 3/8      |
| EQMH09 | H X 9/16       | EQMH23  | H X 1 7/16     |
| EQMH10 | H X 5/8        | EQMH24  | H X 1 1/2      |
| EQMH11 | H X 11/16      | EQMMH15 | H X 15MM       |
| EQMH12 | H X 3/4        | EQMMH18 | H X 18MM       |
| EQMH13 | H X 13/16      | EQMMH20 | H X 20MM       |
| EQMH14 | H X 7/8        | EQMMH22 | H X 22MM       |
| EQMH15 | H X 15/16      | EQMMH24 | H X 24MM       |
| EQMH16 | H X 1          | EQMMH25 | H X 25MM       |
| EQMH17 | H X 1 1/16     | EQMMH28 | H X 28MM       |
| EQMH18 | H X 1 1/8      | EQMMH30 | H X 30MM       |
| EQMH19 | H X 1 3/16     |         |                |

## QD BUSHED CAST IRON PULLEYS

### QD BUSHED CAST IRON PULLEYS

QD Bushed Sheaves are a heavy duty cast iron pulley and are used with 3 bolt bushings.



| Part #   | OD    | Pulley Part # | Part #   | OD    | Pulley Part # |
|----------|-------|---------------|----------|-------|---------------|
| EQM1B034 | 3.75  | 1B34SH        | EQM2B042 | 4.55  | 2B42SH        |
| EQM1B036 | 3.95  | 1B36SH        | EQM2B044 | 4.75  | 2B44SH        |
| EQM1B038 | 4.15  | 1B38SH        | EQM2B046 | 4.95  | 2B46SDS       |
| EQM1B040 | 4.35  | 1B40SH        | EQM2B048 | 5.15  | 2B48SDS       |
| EQM1B042 | 4.55  | 1B42SH        | EQM2B050 | 5.35  | 2B50SDS       |
| EQM1B044 | 4.75  | 1B44SH        | EQM2B052 | 5.55  | 2B52SDS       |
| EQM1B046 | 4.95  | 1B46SDS       | EQM2B054 | 5.75  | 2B54SDS       |
| EQM1B048 | 5.15  | 1B48SDS       | EQM2B056 | 5.95  | 2B56SDS       |
| EQM1B050 | 5.35  | 1B50SDS       | EQM2B058 | 6.15  | 2B58SDS       |
| EQM1B052 | 5.55  | 1B52SDS       | EQM2B060 | 6.35  | 2B60SDS       |
| EQM1B054 | 5.75  | 1B54SDS       | EQM2B062 | 6.55  | 2B62SDS       |
| EQM1B056 | 5.95  | 1B56SDS       | EQM2B064 | 6.75  | 2B64SDS       |
| EQM1B058 | 6.15  | 1B58SDS       | EQM2B066 | 6.95  | 2B66SDS       |
| EQM1B060 | 6.35  | 1B60SDS       | EQM2B068 | 7.15  | 2B68SDS       |
| EQM1B062 | 6.55  | 1B62SDS       | EQM2B070 | 7.35  | 2B70SK        |
| EQM1B064 | 6.75  | 1B64SDS       | EQM2B074 | 7.75  | 2B74SK        |
| EQM1B066 | 6.95  | 1B66SDS       | EQM2B080 | 8.35  | 2B80SK        |
| EQM1B068 | 7.15  | 1B68SDS       | EQM2B086 | 8.95  | 2B86SK        |
| EQM1B070 | 7.35  | 1B70SDS       | EQM2B090 | 9.35  | 2B90SK        |
| EQM1B074 | 7.75  | 1B74SDS       | EQM2B094 | 9.75  | 2B94SK        |
| EQM1B080 | 8.35  | 1B80SDS       | EQM2B110 | 11.35 | 2B110SK       |
| EQM1B086 | 8.95  | 1B86SDS       | EQM2B124 | 12.75 | 2B124SK       |
| EQM1B094 | 9.75  | 1B94SDS       | EQM2B136 | 13.95 | 2B136SK       |
| EQM1B110 | 11.35 | 1B110SDS      | EQM2B154 | 15.75 | 2B154SK       |
| EQM1B124 | 12.75 | 1B124SDS      | EQM2B160 | 16.35 | 2B160SK       |
| EQM1B136 | 13.95 | 1B136SDS      | EQM2B184 | 18.75 | 2B184SK       |
| EQM1B154 | 15.75 | 1B154SK       | EQM2B200 | 20.35 | 2B200SF       |
| EQM1B160 | 16.35 | 1B160SK       | EQM3B034 | 3.75  | 3B34SH        |
| EQM1B200 | 20.35 | 1B200SK       | EQM3B036 | 3.95  | 3B36SH        |
| EQM2B034 | 3.75  | 2B34SH        | EQM3B038 | 4.15  | 3B38SH        |
| EQM2B036 | 3.95  | 2B36SH        | EQM3B040 | 4.35  | 3B40SH        |
| EQM2B038 | 4.15  | 2B38SH        | EQM3B042 | 4.55  | 3B42SH        |
| EQM2B040 | 4.35  | 2B40SH        | EQM3B044 | 4.75  | 3B44SH        |

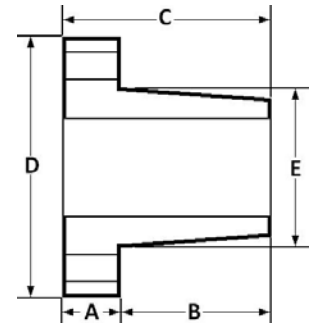


## QD BUSHED CAST IRON PULLEYS

| Part #   | OD   | Pulley Part # |
|----------|------|---------------|
| EQM3B046 | 4.95 | 3B46SD        |
| EQM3B048 | 5.15 | 3B48SD        |
| EQM3B050 | 5.35 | 3B50SD        |
| EQM3B052 | 5.55 | 3B52SD        |
| EQM3B056 | 5.95 | 3B56SD        |
| EQM3B058 | 6.15 | 3B58SD        |
| EQM3B060 | 6.35 | 3B60SD        |
| EQM3B064 | 6.75 | 3B64SD        |
| EQM3B066 | 6.95 | 3B66SD        |
| EQM3B068 | 7.15 | 3B68SD        |
| EQM3B070 | 7.35 | 3B70SK        |

| Part #   | OD    | Pulley Part # |
|----------|-------|---------------|
| EQM3B074 | 7.75  | 3B74SK        |
| EQM3B080 | 8.35  | 3B80SK        |
| EQM3B086 | 8.95  | 3B86SK        |
| EQM3B090 | 9.35  | 3B90SK        |
| EQM3B094 | 9.75  | 3B94SK        |
| EQM3B110 | 11.35 | 3B110SK       |
| EQM3B124 | 12.75 | 3B124SK       |
| EQM3B160 | 16.35 | 3B160SK       |
| EQM3B184 | 18.75 | 3B184SK       |
| EQM3B200 | 20.35 | 3B200SF       |
| EQM4B034 | 3.75  | 4B34SD        |

## QD BUSHINGS



## DIMENSIONS

| Bushing | A    | B      | C       | D       | E     | Bolts Required | Bolt Size   |
|---------|------|--------|---------|---------|-------|----------------|-------------|
| SH      | 7/16 | 7/8    | 1 5/16  | 2 11/16 | 1.871 | 3              | 1/4 X 1 3/8 |
| SDS     | 7/16 | 7/8    | 1 5/16  | 3 1/8   | 2.187 | 3              | 1/4 X 1 3/8 |
| SD      | 7/16 | 1 3/8  | 1 13/16 | 3 1/8   | 2.187 | 3              | 1/4 X 1 7/8 |
| SK      | 9/16 | 1 3/8  | 1 15/16 | 3 7/8   | 2.812 | 3              | 5/16 X 2    |
| SF      | 5/8  | 1 7/16 | 2 1/16  | 4 5/8   | 3.125 | 3              | 5/16 X 2    |

QD BUSHINGS

KEYWAY DIMENSIONS

STANDARD KEY SEATS

| Bore Size                                                   | Key Seat    |
|-------------------------------------------------------------|-------------|
| 1/2, 9/16                                                   | 1/8 X 1/16  |
| 5/8, 11/16, 3/4, 13/16, 7/8                                 | 3/16 X 3/32 |
| 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4                      | 1/4 X 1/8   |
| 1 5/16, 1 3/8                                               | 5/16 X 5/32 |
| 1 7/16, 1 1/2, 1 9/16, 1 5/8, 1 11/16, 1 3/4                | 3/8 X 3/16  |
| 1 13/16, 1 7/8, 1 15/16, 2, 2 1/16, 2 1/8, 2 3/16, 2 1/4"   | 1/2 X 1/4   |
| 2 5/16, 2 3/8, 2 7/16, 2 1/2, 2 9/16, 2 5/8, 2 11/16, 2 3/4 | 5/8 X 5/16  |
| 2 13/16, 2 7/8, 2 15/16                                     | 3/4 X 3/8   |
| SH X 1 7/16, 1 1/2, 1 9/16, 1 5/8                           | 3/8 X 1/16  |
| SH X 1 11/16, 1 3/4                                         | NO KEY      |
| SDS, SD X 1 3/4                                             | 3/8 X 1/8   |
| SDS, SD X 1 13/16                                           | 1/2 X 1/8   |
| SDS, SD X 1 7/8, 1 15/16                                    | 1/2 X 1/16  |
| SDS, SD X 2                                                 | NO KEY      |
| SK X 2 3/16, 2 1/4                                          | 1/2 X 1/8   |
| SK X 2 5/16, 2 3/8, 2 7/16, 2 1/2                           | 5/8 X 1/16  |
| SK X 2 9/16, 2 5/8                                          | NO KEY      |
| SF X 2 5/16, 2 3/8, 2 7/16, 2 1/2                           | 5/8 X 3/16  |
| SF X 2 9/16, 2 5/8, 2 11/16, 2 3/4                          | 5/8 X 1/16  |
| SF X 2 13/16, 2 7/8                                         | 3/4 X 1/16  |
| SF X 2 15/16                                                | NO KEY      |

QD BUSHINGS



| Part #  | Bushing Part # | Part #  | Bushing Part # |
|---------|----------------|---------|----------------|
| EQMJA16 | JA X 1         | EQMSH12 | SH X 3/4       |
| EQMSH08 | SH X 1/2       | EQMSH13 | SH X 13/16     |
| EQMSH09 | SH X 9/16      | EQMSH14 | SH X 7/8       |
| EQMSH10 | SH X 5/8       |         |                |

QD Bushings are also available in sizes JA, E, F, J, M, N, P, W.

POWER TRANSMISSION SUPPLIES

| Part #   | Bushing Part # | Part #  | Bushing Part # |
|----------|----------------|---------|----------------|
| EQMSH15  | SH X 15/16     | EQMSK12 | SK X 3/4       |
| EQMSH16  | SH X 1         | EQMSK14 | SK X 7/8       |
| EQMSH17  | SH X 1 1/16    | EQMSK16 | SK X 1         |
| EQMSH18  | SH X 1 1/8     | EQMSK18 | SK X 1 1/8     |
| EQMSH19  | SH X 1 3/16    | EQMSK20 | SK X 1 1/4     |
| EQMSH20  | SH X 1 1/4     | EQMSK21 | SK X 1 5/16    |
| EQMSH22  | SH X 1 3/8     | EQMSK22 | SK X 1 3/8     |
| EQMSH23  | SH X 1 7/16    | EQMSK23 | SK X 1 7/16    |
| EQMSH24  | SH X 1 1/2     | EQMSK24 | SK X 1 1/2     |
| EQMSH26  | SH X 1 5/8     | EQMSK26 | SK X 1 5/8     |
| EQMSDS10 | SDS X 5/8      | EQMSK28 | SK X 1 3/4     |
| EQMSDS12 | SDS X 3/4      | EQMSK30 | SK X 1 7/8     |
| EQMSDS14 | SDS X 7/8      | EQMSK31 | SK X 1 15/16   |
| EQMSDS15 | SDS X 15/16    | EQMSK32 | SK X 2         |
| EQMSDS16 | SDS X 1        | EQMSK34 | SK X 2 1/8     |
| EQMSDS18 | SDS X 1 1/8    | EQMSK35 | SK X 2 3/16    |
| EQMSDS19 | SDS X 1 3/16   | EQMSK36 | SK X 2 1/4     |
| EQMSDS20 | SDS X 1 1/4    | EQMSK38 | SK X 2 3/8     |
| EQMSDS22 | SDS X 1 3/8    | EQMSK39 | SK X 2 7/16    |
| EQMSDS23 | SDS X 1 7/16   | EQMSK40 | SK X 2 1/2     |
| EQMSDS24 | SDS X 1 1/2    | EQMSF16 | SF X 1         |
| EQMSDS26 | SDS X 1 5/8    | EQMSF18 | SF X 1 1/8     |
| EQMSDS28 | SDS X 1 3/4    | EQMSF20 | SF X 1 1/4     |
| EQMSDS30 | SDS X 1 7/8    | EQMSF22 | SF X 1 3/8     |
| EQMSDS31 | SDS X 1 15/16  | EQMSF23 | SF X 1 7/16    |
| EQMSDS32 | SDS X 2        | EQMSF24 | SF X 1 1/2     |
| EQMSD16  | SD X 1         | EQMSF26 | SF X 1 5/8     |
| EQMSD18  | SD X 1 1/8     | EQMSF27 | SF X 1 11/16   |
| EQMSD19  | SD X 1 3/16    | EQMSF28 | SF X 1 3/4     |
| EQMSD20  | SD X 1 1/4     | EQMSF30 | SF X 1 7/8     |
| EQMSD22  | SD X 1 3/8     | EQMSF31 | SF X 1 15/16   |
| EQMSD23  | SD X 1 7/16    | EQMSF32 | SF X 2         |
| EQMSD24  | SD X 1 1/2     | EQMSF34 | SF X 2 1/8     |
| EQMSD26  | SD X 1 5/8     | EQMSF35 | SF X 2 3/16    |
| EQMSD27  | SD X 1 11/16   | EQMSF36 | SF X 2 1/4     |
| EQMSD28  | SD X 1 3/4     | EQMSF39 | SF X 2 7/16    |
| EQMSD30  | SD X 1 7/8     | EQMSF40 | SF X 2 1/2     |
| EQMSD32  | SD X 2         |         |                |
| EQMSK10  | SK X 5/8       |         |                |

QD Bushings are also available in sizes JA, E, F, J, M, N, P, W.

# QD WELD-ON HUBS, DOUBLE SPLIT TAPER BUSHED CAST IRON PULLEYS

## QD WELD-ON HUBS

| Part # | Hub Part # |
|--------|------------|
| EQMSFA | SF-A       |



## DOUBLE SPLIT TAPER BUSHED CAST IRON PULLEYS

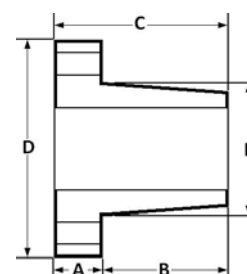
Double Split Taper Bushed Pulleys are a heavy duty cast iron pulley and are used with 3 bolt bushings.

| Part #     | OD   | Pulley Part # |
|------------|------|---------------|
| EQM3B034P2 | 3.75 | 3B34P2        |
| EQM3B036P2 | 3.95 | 3B36P2        |
| EQM3B038P1 | 4.15 | 3B38P1        |
| EQM3B040P1 | 4.35 | 3B40P1        |
| EQM3B042P1 | 4.55 | 3B42P1        |



These pulleys are available as well in 1, 2, and 4 groove up to 38.35" in diameter.

## DOUBLE SPLIT TAPER BUSHINGS



## DIMENSIONS

| Bushing | A     | B       | C       | D     | E       | Bolts Required | Bolt Size   |
|---------|-------|---------|---------|-------|---------|----------------|-------------|
| P1      | 13/32 | 1 17/32 | 1 15/16 | 3     | 1 15/16 | 3              | 5/16 X 1    |
| P2      | 13/32 | 2 17/32 | 2 15/16 | 3     | 1 15/16 | 3              | 5/16 X 1    |
| Q1      | 17/32 | 1 31/32 | 3 3/8   | 4 1/8 | 2 7/8   | 3              | 3/8 X 1 1/4 |

## KEYWAY DIMENSIONS

| Bushing    | Bore Sizes                                               | Key Seat    |
|------------|----------------------------------------------------------|-------------|
| P1         | 1/2, 9/16                                                | 1/8 X 1/16  |
| P1, P2, Q1 | 5/8, 11/16, 3/4, 13/16, 7/8                              | 3/16 X 3/32 |
| P1, P2, Q1 | 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4                   | 1/4 X 1/8   |
| P1, P2, Q1 | 1 5/16, 1 3/8                                            | 5/16 X 5/32 |
| P1, P2, Q1 | 1 7/16, 1 1/2, 1 9/16, 1 5/8, 1 11/16                    | 3/8 X 3/16  |
| P1, Q1     | 1 3/4                                                    | 3/8 X 3/16  |
| Q1         | 1 13/16, 1 7/8, 1 15/16, 2, 2 1/16, 2 1/8, 2 3/16, 2 1/4 | 1/2 X 1/4   |
| Q1         | 2 5/16, 2 3/8, 2 7/16, 2 1/2, 2 9/16, 2 5/8, 2 11/16     | 5/8 X 5/16  |

These bushings are also available in Q2, R1, R2 sizes and in more bore sizes in imperial and metric.



| Part #  | Bushing Part # | Part #  | Bushing Part # |
|---------|----------------|---------|----------------|
| EQMP110 | P1 X 5/8       | EQMP220 | P2 X 1 1/4     |
| EQMP114 | P1 X 7/8       | EQMP222 | P2 X 1 3/8     |
| EQMP116 | P1 X 1         | EQMP223 | P2 X 1 7/16    |
| EQMP118 | P1 X 1 1/8     | EQMP224 | P2 X 1 1/2     |
| EQMP120 | P1 X 1 1/4     | EQMP226 | P2 X 1 5/8     |
| EQMP122 | P1 X 1 3/8     | EQMQ116 | Q1 X 1         |
| EQMP123 | P1 X 1 7/16    | EQMQ120 | Q1 X 1 1/4     |
| EQMP124 | P1 X 1 1/2     | EQMQ124 | Q1 X 1 1/2     |
| EQMP126 | P1 X 1 5/8     | EQMQ127 | Q1 X 1 11/16   |
| EQMP128 | P1 X 1 3/4     | EQMQ131 | Q1 X 1 15/16   |
| EQMP214 | P2 X 7/8       | EQMQ132 | Q1 X 2         |
| EQMP216 | P2 X 1         | EQMQ139 | Q1 X 2 7/16    |
| EQMP218 | P2 X 1 1/8     |         |                |

## VARIABLE PITCH CAST IRON PULLEYS

Variable Pitch Pulleys are designed so their pitch can be increased or decreased by turning one side of the pulley towards or away from the other side of the pulley. They can be used with 3L, 4L, 5L, A, or B Belts.

| Part #     | Pulley Part # | OD   |
|------------|---------------|------|
| EQM1VL3410 | 1VL34 X 5/8   | 3.15 |
| EQM1VL4010 | 1VL40 X 5/8   | 3.75 |
| EQM1VL4012 | 1VL40 X 3/4   | 3.75 |
| EQM1VL4014 | 1VL40 X 7/8   | 3.75 |
| EQM1VP4018 | 1VP40 X 1 1/8 | 3.75 |

Available in OD sizes 2.38" to 7.5".



# WELD-ON PULLEYS, IDLER PULLEYS

## WELD-ON PULLEYS

Weld on Pulleys are for light duty applications only. They are made in a one piece split construction. They are designed for use with the weld on hubs which are listed with the weld on sprockets.



| Part #      | Pulley #  | OD    | Weld on Hub Series | Fits Belt Sizes | Part #                                         | Pulley #  | OD | Weld on Hub Series | Fits Belt Sizes |
|-------------|-----------|-------|--------------------|-----------------|------------------------------------------------|-----------|----|--------------------|-----------------|
| EQ00710025  | 00710025  | 2-1/2 | V                  | A & B           | EQ007200805                                    | 007200805 | 8  | W                  | A & B           |
| EQ00710030  | 00710030  | 3     | V                  | A & B           | EQ007200905                                    | 007200905 | 9  | W                  | A & B           |
| EQ00720030  | 00720030  | 3     | V                  | A & B           | EQ007201005                                    | 007201005 | 10 | W                  | A & B           |
| EQ007200355 | 007200355 | 3-1/2 | W                  | A & B           | EQ007201105                                    | 007201105 | 11 | W                  | A & B           |
| EQ007200405 | 007200405 | 4     | W                  | A & B           | EQ007201205                                    | 007201205 | 12 | W                  | A & B           |
| EQ007200455 | 007200455 | 4-1/2 | W                  | A & B           | EQ007201405                                    | 007201405 | 14 | W                  | A & B           |
| EQ007200505 | 007200505 | 5     | W                  | A & B           | EQ007201605                                    | 007201605 | 16 | W                  | A & B           |
| EQ007200555 | 007200555 | 5-1/2 | W                  | A & B           | EQ007400605                                    | 007400605 | 6  | X                  | C               |
| EQ007200605 | 007200605 | 6     | W                  | A & B           | EQ007400805                                    | 007400805 | 8  | X                  | C               |
| EQ007200655 | 007200655 | 6-1/2 | W                  | A & B           | EQ007401205                                    | 007401205 | 12 | X                  | C               |
| EQ007200705 | 007200705 | 7     | W                  | A & B           | *Made from bar stock instead of pressed steel. |           |    |                    |                 |

## IDLER PULLEYS

### BACKSIDE

Backside Idler Pulleys have a flat surface designed to push in against the backside of a v-belt. They are 1 3/16 wide.

| Part #     | Pulley # | Pulley OD | Groove Diameter | Bore |
|------------|----------|-----------|-----------------|------|
| EQ011-4408 | 011-4408 | 3-1/4     | 2.75            | 1/2  |
| EQ011-4410 | 011-4410 | 3-1/4     | 2.75            | 5/8  |
| EQ011-6408 | 011-6408 | 4-1/2     | 4               | 1/2  |
| EQ011-6410 | 011-6410 | 4-1/2     | 4               | 5/8  |



### FRONTSIDE

Frontside Idler Pulleys have a traditional v design and are made to push out against the frontside or the v of a v-belt.

| Part #     | Pulley # | Pulley OD | Bore | Fits Belt Sizes |
|------------|----------|-----------|------|-----------------|
| EQ011-8008 | 011-8008 | 5         | 1/2  | A & B           |
| EQ011-8010 | 011-8010 | 5         | 5/8  | A & B           |



## WELD-ON SPROCKETS

Weld on sprockets provide a large variety of sprockets at your fingertips without needing to rebores for proper bore size. The sprocket # indicates chain size, number of teeth, and hub series required. (4024X is a sprocket for 40 chain with 24 teeth and uses an X series weld on hub).



| Part #      | Sprocket # | OD    | Part #      | Sprocket # | OD     |
|-------------|------------|-------|-------------|------------|--------|
| EQ001035245 | 3524W      | 3.074 | EQ001040485 | 4048X      | 7.927  |
| EQ001035605 | 3560W      | 7.38  | EQ001040505 | 4050X      | 8.248  |
| EQ001040115 | 4011V      | 2.003 | EQ001040545 | 4054X      | 8.884  |
| EQ001040125 | 4012V      | 2.166 | EQ001040605 | 4060X      | 9.841  |
| EQ001040135 | 4013V      | 2.329 | EQ001040725 | 4072X      | 11.752 |
| EQ001040145 | 4014V      | 2.491 | EQ001040805 | 4080X      | 13.026 |
| EQ001040155 | 4015V      | 2.653 | EQ001040845 | 4084X      | 13.663 |
| EQ001040165 | 4016W      | 2.814 | EQ001041155 | 4115V      | 2.653  |
| EQ001040175 | 4017W      | 2.975 | EQ001050095 | 5009V      | 2.092  |
| EQ001040185 | 4018W      | 3.136 | EQ001050105 | 5010V      | 2.266  |
| EQ001040195 | 4019W      | 3.297 | EQ001050115 | 5011V      | 2.504  |
| EQ001040205 | 4020X      | 3.457 | EQ001050125 | 5012W      | 2.708  |
| EQ001040215 | 4021X      | 3.618 | EQ001050135 | 5013W      | 2.911  |
| EQ001040225 | 4022X      | 3.778 | EQ001050145 | 5014W      | 3.114  |
| EQ001040235 | 4023X      | 3.938 | EQ001050155 | 5015W      | 3.316  |
| EQ001040245 | 4024X      | 4.098 | EQ001050165 | 5016W      | 3.517  |
| EQ001040255 | 4025X      | 4.258 | EQ001050175 | 5017X      | 3.719  |
| EQ001040265 | 4026X      | 4.418 | EQ001050185 | 5018X      | 3.919  |
| EQ001040275 | 4027X      | 4.587 | EQ001050195 | 5019X      | 4.121  |
| EQ001040285 | 4028X      | 4.738 | EQ001050205 | 5020X      | 4.321  |
| EQ001040295 | 4029X      | 4.898 | EQ001050215 | 5021X      | 4.521  |
| EQ001040305 | 4030X      | 5.057 | EQ001050225 | 5022X      | 4.722  |
| EQ001040325 | 4032X      | 5.377 | EQ001050235 | 5023X      | 4.922  |
| EQ001040345 | 4034X      | 5.696 | EQ001050245 | 5024X      | 5.123  |
| EQ001040355 | 4035X      | 5.856 | EQ001050255 | 5025X      | 5.323  |
| EQ001040365 | 4036X      | 6.015 | EQ001050265 | 5026X      | 5.532  |
| EQ001040385 | 4038X      | 6.334 | EQ001050285 | 5028X      | 5.922  |
| EQ001040405 | 4040X      | 6.653 | EQ001050295 | 5029X      | 6.122  |
| EQ001040425 | 4042X      | 6.972 | EQ001050305 | 5030X      | 6.321  |
| EQ001040445 | 4044X      | 7.291 | EQ001050325 | 5032X      | 6.721  |
| EQ001040455 | 4045X      | 7.451 | EQ001050345 | 5034X      | 7.12   |
| EQ001040465 | 4046X      | 7.609 | EQ001050355 | 5035X      | 7.319  |



# WELD-ON SPROCKETS

## WELD-ON SPROCKETS

| Part #      | Sprocket # | OD     | Part #      | Sprocket # | OD     |
|-------------|------------|--------|-------------|------------|--------|
| EQ001050365 | 5036X      | 7.519  | EQ001060325 | 6032X      | 8.065  |
| EQ001050385 | 5038X      | 7.918  | EQ001060345 | 6034X      | 8.544  |
| EQ001050405 | 5040X      | 8.316  | EQ001060365 | 6036X      | 9.023  |
| EQ001050425 | 5042X      | 8.715  | EQ001060385 | 6038X      | 9.501  |
| EQ001050445 | 5044X      | 9.114  | EQ001060405 | 6040X      | 9.98   |
| EQ001050455 | 5045X      | 9.313  | EQ001060425 | 6042X      | 10.458 |
| EQ001050485 | 5048X      | 9.911  | EQ001060445 | 6044X      | 10.937 |
| EQ001050505 | 5050X      | 10.309 | EQ001060455 | 6045X      | 11.18  |
| EQ001050525 | 5052X      | 10.708 | EQ001060465 | 6046X      | 11.414 |
| EQ001050545 | 5054X      | 11.106 | EQ001060485 | 6048X      | 11.893 |
| EQ001050605 | 5060X      | 12.301 | EQ001060505 | 6050X      | 12.371 |
| EQ001050725 | 5072X      | 14.69  | EQ001060545 | 6054X      | 13.327 |
| EQ001050805 | 5080X      | 16.283 | EQ001060605 | 6060X      | 14.761 |
| EQ001060095 | 6009V      | 2.51   | EQ001060725 | 6072X      | 17.628 |
| EQ001060105 | 6010V      | 2.759  | EQ00106080  | 6080X      | 19.539 |
| EQ001060115 | 6011W      | 3.005  | EQ001080095 | 8009W      | 3.347  |
| EQ001060125 | 6012W      | 3.249  | EQ001080105 | 8010W      | 3.678  |
| EQ001060135 | 6013W      | 3.493  | EQ001080115 | 8011W      | 4      |
| EQ001060145 | 6014W      | 3.736  | EQ001080125 | 8012X      | 4.332  |
| EQ001060155 | 6015X      | 3.979  | EQ001080135 | 8013X      | 4.657  |
| EQ001060165 | 6016X      | 4.22   | EQ001080145 | 8014X      | 4.982  |
| EQ001060175 | 6017X      | 4.463  | EQ001080155 | 8015X      | 5.305  |
| EQ001060185 | 6018X      | 4.703  | EQ001080165 | 8016X      | 5.627  |
| EQ001060195 | 6019X      | 4.945  | EQ001080175 | 8017X      | 5.95   |
| EQ001060205 | 6020X      | 5.186  | EQ001080185 | 8018X      | 6.271  |
| EQ001060215 | 6021X      | 5.426  | EQ001080195 | 8019X      | 6.593  |
| EQ001060225 | 6022X      | 5.666  | EQ001080205 | 8020X      | 6.914  |
| EQ001060235 | 6023X      | 5.922  | EQ001080215 | 8021X      | 7.24   |
| EQ001060245 | 6024X      | 6.147  | EQ001080225 | 8022X      | 7.555  |
| EQ001060255 | 6025X      | 6.387  | EQ001080245 | 8024X      | 8.196  |
| EQ001060265 | 6026X      | 6.627  | EQ001080265 | 8026X      | 8.836  |
| EQ001060285 | 6028X      | 7.106  | EQ001080285 | 8028X      | 9.475  |
| EQ001060295 | 6029X      | 7.346  | EQ001080305 | 8030X      | 10.114 |
| EQ001060305 | 6030X      | 7.586  | EQ001080365 | 8036X      | 12.03  |

# HARDENED TOOTH WELDASPROCKETS®, TYPE B FINISH BORE SPROCKETS, STEEL DETACHABLE CHAIN WELDASPROCKETS®

## HARDENED TOOTH WELDASPROCKETS®

Hardened Tooth Weldasprockets are an exact equivalent of standard weld-on sprockets with teeth that are hardened to a Rockwell Hardness of C35-45. The sprocket # indicates chain size, number of teeth, and hub series required. (4024X is a sprocket for 40 chain with 24 teeth and uses an X series weld on hub). They are manufactured in the USA by G & G Manufacturing.

| Part #     | Sprocket # | OD    |
|------------|------------|-------|
| EQ00304012 | 4012V      | 2.166 |
| EQ00305012 | 5012W      | 2.708 |
| EQ00305022 | 5022X      | 4.722 |
| EQ00306015 | 6015X      | 3.979 |



## TYPE B FINISH BORE SPROCKETS

| Part #      | Sprocket #    | OD    |
|-------------|---------------|-------|
| EQ603510105 | 35B10 X 5/8   | 1.379 |
| EQ603515125 | 35B15 X 3/4   | 1.989 |
| EQ604012165 | 40B12 X 1     | 2.166 |
| EQ604013125 | 40B13 X 3/4   | 2.329 |
| EQ604115165 | 41B15 X 1     | 2.653 |
| EQ605012165 | 50B12 X 1     | 2.708 |
| EQ606022205 | 60B22 X 1-1/4 | 5.666 |



## STEEL DETACHABLE CHAIN WELDASPROCKETS®

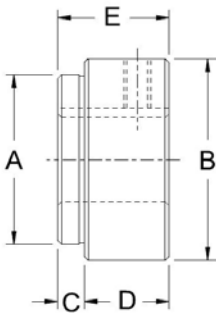
These sprockets are designed to fit steel detachable chain and pintle chain. The sprocket # indicates chain size, number of teeth, and hub series required. (5510X is a sprocket for 55 chain with 10 teeth and uses an X series weld on hub). They are manufactured in the USA by G & G.

| Part #     | Sprocket # | OD    | Width | Chain Size |
|------------|------------|-------|-------|------------|
| EQ01550655 | 5506W      | 3-3/4 | 9/16  | 55         |
| EQ01550755 | 5507X      | 4-1/4 | 9/16  | 55         |
| EQ01670667 | 6706X      | 5-5/8 | 3/4   | 667x/xh    |



WELD-ON HUBS

WELD-ON HUBS



DIMENSIONS

| - | V      | W      | X              | XX     | Y      | W Idler | X Idler        |
|---|--------|--------|----------------|--------|--------|---------|----------------|
| A | 1 1/8  | 1 5/8  | 2              | 2      | 2 3/4  | 1 5/8   | 2              |
| B | 1 7/16 | 1 3/4  | 2 1/4 TO 2 1/2 | 3      | 3 3/4  | 1 3/4   | 2 1/4 TO 2 1/2 |
| C | 7/16   | 7/16   | 7/16           | 7/16   | 11/16  | 1/2     | 1/2            |
| D | 3/4    | 1      | 1              | 1 1/16 | 1 3/16 | 7/64    | 7/64           |
| E | 1 3/16 | 1 7/16 | 1 7/16         | 1 1/2  | 1 7/8  | 1 1/16  | 1 1/16         |

STANDARD KEYWAY DIMENSIONS

| Shaft Dia.    | Key Seat W X D |
|---------------|----------------|
| 1/2-9/16      | 1/8 X 1/16     |
| 5/8-7/8       | 3/16 X 3/32    |
| 15/16-1 1/4   | 1/4 X 1/8      |
| 1 5/16-1 3/8  | 5/16 X 5/32    |
| 1 7/16-1 3/4  | 3/8 X 3/16     |
| 1 13/16-2 1/4 | 1/2 X 1/4      |
| 2 5/16-2 1/2  | 5/8 X 5/16     |

ROUND BORE

Weld-on Hubs are designed for use with weld-on sprockets and pulleys.



| Part #      | Bore Size | Hub Series | Part #      | Bore Size | Hub Series |
|-------------|-----------|------------|-------------|-----------|------------|
| EQ000100085 | 1/2       | V          | EQ000200095 | 9/16      | W          |
| EQ000100095 | 9/16      | V          | EQ000200105 | 5/8       | W          |
| EQ000100105 | 5/8       | V          | EQ000200115 | 11/16     | W          |
| EQ000100115 | 1 1/16    | V          | EQ000200125 | 3/4       | W          |
| EQ000100125 | 3/4       | V          | EQ000200145 | 7/8       | W          |
| EQ000100135 | 1 3/16    | V          | EQ000200155 | 1 5/16    | W          |
| EQ000100145 | 7/8       | V          | EQ000200165 | 1         | W          |
| EQ000200085 | 1/2       | W          | EQ000200175 | 1-1/16    | W          |

## ROUND BORE

| Part #      | Bore Size | Hub Series | Part #      | Bore Size | Hub Series |
|-------------|-----------|------------|-------------|-----------|------------|
| EQ000200185 | 1-1/8     | W          | EQ000300185 | 1-1/8     | X          |
| EQ000200195 | 1-3/16    | W          | EQ000300195 | 1-3/16    | X          |
| EQ000200205 | 1-1/4     | W          | EQ000300205 | 1-1/4     | X          |
| EQ000300105 | 5/8       | X          | EQ000300215 | 1-5/16    | X          |
| EQ000300115 | 11/16     | X          | EQ000300225 | 1-3/8     | X          |
| EQ000300125 | 3/4       | X          | EQ000300235 | 1-7/16    | X          |
| EQ000300135 | 13/16     | X          | EQ000300245 | 1-1/2     | X          |
| EQ000300145 | 7/8       | X          | EQ000400265 | 1-5/8     | XX         |
| EQ000300155 | 15/16     | X          | EQ000500285 | 1-3/4     | Y          |
| EQ000300165 | 1         | X          | EQ000500325 | 2         | Y          |
| EQ000300175 | 1-1/16    | X          |             |           |            |

## HEX BORE

| Part #      | Bore Size | Hub Series |
|-------------|-----------|------------|
| EQ000260145 | 7/8       | W          |
| EQ000360145 | 7/8       | X          |

## SQUARE BORE

| Part #      | Bore Size | Hub Series |
|-------------|-----------|------------|
| EQ0002S0125 | 3/4       | W          |

## SPLINED BORE

| Part #      | Bore Size | Hub Series |
|-------------|-----------|------------|
| EQ000320065 | 1-1/4 x 6 | X          |
| EQ000322065 | 1-3/8 x 6 | X          |

## IDLER

| Part #     | Bore Size | Hub Series |
|------------|-----------|------------|
| EQ00023008 | 1/2       | W          |
| EQ00023010 | 5/8       | W          |
| EQ00033010 | 5/8       | X          |



# CAST SPROCKETS FOR STEEL DETACHABLE CHAIN, IDLER SPROCKETS

## CAST SPROCKETS FOR STEEL DETACHABLE CHAIN

STOCK BORE ▪ MADE IN USA



| Part #     | Sprocket # | Bore Size | OD    | Chain Size | Part #     | Sprocket # | Bore Size | OD    | Chain Size |
|------------|------------|-----------|-------|------------|------------|------------|-----------|-------|------------|
| EQ01350655 | 5506       | 1/2       | 3-3/4 | 55         | EQ01351255 | 5512       | 3/4       | 6-3/4 | 55         |
| EQ01350755 | 5507       | 1/2       | 4-1/4 | 55         | EQ01351555 | 5515       | 7/8       | 8-3/8 | 55         |
| EQ01350855 | 5508       | 3/4       | 4-3/4 | 55         | EQ01360662 | 6206       | 3/4       | 3-7/8 | 62         |
| EQ01350955 | 5509       | 3/4       | 5-1/4 | 55         | EQ01360762 | 6207       | 3/4       | 4-3/8 | 62         |
| EQ01351055 | 5510       | 3/4       | 5-3/4 | 55         | EQ01360862 | 6208       | 3/4       | 4-7/8 | 62         |
| EQ01351155 | 5511       | 3/4       | 6-1/4 | 55         | EQ01361062 | 6210       | 3/4       | 5-7/8 | 62         |

## IDLER SPROCKETS

The sprocket number gives the chain size and the number of teeth. (4017 is a sprocket for 40 chain and has 17 teeth).



| Part #      | Sprocket # | Bore Size | Sprocket Width | LTB   | Part #     | Sprocket # | Bore Size | Sprocket Width | LTB   |
|-------------|------------|-----------|----------------|-------|------------|------------|-----------|----------------|-------|
| EQ03518E08  | 3518       | 1/2       | 7/16           | 11/16 | EQ05017E10 | 5017       | 5/8       | 7/16           | 11/16 |
| EQ04015E10* | 4015       | 5/8       | 7/16           | 11/16 | EQ06011E10 | 6011       | 5/8       | 7/16           | 11/16 |
| EQ04017E08* | 4017       | 1/2       | 7/16           | 11/16 | EQ06013E08 | 6013       | 1/2       | 7/16           | 11/16 |
| EQ04017E10* | 4017       | 5/8       | 7/16           | 11/16 | EQ06013E10 | 6013       | 5/8       | 7/16           | 11/16 |
| EQ05013E08  | 5013       | 1/2       | 7/16           | 11/16 | EQ06015E08 | 6015       | 1/2       | 7/16           | 11/16 |
| EQ05013E10  | 5013       | 5/8       | 7/16           | 11/16 | EQ06015E10 | 6015       | 5/8       | 7/16           | 11/16 |
| EQ05015E08  | 5015       | 1/2       | 7/16           | 11/16 | EQ08011E12 | 8011       | 3/4       | 9/16           | 9/16  |
| EQ05015E10  | 5015       | 5/8       | 7/16           | 11/16 | EQ08012012 | 8012       | 3/4       | 9/16           | 9/16  |
| EQ05017E08  | 5017       | 1/2       | 7/16           | 11/16 |            |            |           |                |       |

\*40 idler sprockets also work for 41 roller chain.

## STAMPED IDLER SPROCKETS

| Part #     | Sprocket # | Bore Size |
|------------|------------|-----------|
| EQ034-5017 | 5017       | 5/8       |
| EQ034-6015 | 6015       | 5/8       |
| EQ034-8550 | 55008      | 5/8       |



## REDUCER BUSHINGS

| Part #     | Size      |
|------------|-----------|
| EQ01008E11 | 5/8 x 1/2 |



## BRONZE BUSHINGS

| Part #     | Size                |
|------------|---------------------|
| EQBB050616 | 5/16 x 3/8 x 1      |
| EQBB060816 | 3/8 x 1/2 x 1       |
| EQBB060910 | 3/8 x 9/16 x 1-1/4  |
| EQBB061010 | 3/8 x 5/8 x 5/8     |
| EQBB070916 | 7/16 x 9/16 x 1     |
| EQBB081116 | 1/2 x 11/16 x 1     |
| EQBB081224 | 1/2 x 3/4 x 1-1/2   |
| EQBB081232 | 1/2 x 3/4 x 2       |
| EQBB081412 | 1/2 x 7/8 x 3/4     |
| EQBB091222 | 9/16 x 3/4 x 1-3/8  |
| EQBB101216 | 5/8 x 3/4 x 1       |
| EQBB101412 | 5/8 x 7/8 x 3/4     |
| EQBB101424 | 5/8 x 7/8 x 1-1/2   |
| EQBB111412 | 11/16 x 7/8 x 3/4   |
| EQBB121424 | 3/4 x 7/8 x 1-1/2   |
| EQBB121632 | 3/4 x 1 x 2         |
| EQBB122024 | 3/4 x 1-1/4 x 1-1/3 |

| Part #     | Size                   |
|------------|------------------------|
| EQBB131632 | 13/16 x 1 x 2          |
| EQBB141824 | 7/8 x 1-1/8 x 1-1/2    |
| EQBB161824 | 1 x 1-1/8 x 1-1/2      |
| EQBB162024 | 1 x 1-1/4 x 1-1/2      |
| EQBB162032 | 1 x 1-1/4 x 2          |
| EQBB162224 | 1 x 1-3/8 x 1-1/2      |
| EQBB162416 | 1 x 1-1/2 x 1          |
| EQBB182024 | 1-1/8 x 1-1/4 x 1-1/2  |
| EQBB182232 | 1-1/8 x 1-3/8 x 2      |
| EQBB202332 | 1-1/4 x 1-7/16 x 2     |
| EQBB202432 | 1-1/4 x 1-1/2 x 2      |
| EQBB202848 | 1-1/4 x 1-3/4 x 3      |
| EQBB222524 | 1-3/8 x 1-9/16 x 1-1/2 |
| EQBB222640 | 1-3/8 x 1-5/8 x 2-1/2  |
| EQBB242824 | 1-1/2 x 1-3/4 x 1-1/2  |
| EQBB243024 | 1-1/2 x 1-7/8 x 1-1/2  |
| EQBB283248 | 1-3/4 x 2 x 3          |



FLANGED BRONZE BUSHINGS

| Part #      | Size                  |
|-------------|-----------------------|
| EQBFB061012 | 0.377 x 0.615 x 0.750 |
| EQBFB081012 | 1/2 x 5/8 x 3/4       |



OIL IMPREGNATED BRONZE THRUST BUSHINGS

| Part #       | Size              |
|--------------|-------------------|
| EQBBTB122004 | 3/4 x 1-1/4 x 1/8 |
| EQBBTB203204 | 1-1/4 x 2 x 1/8   |



## V-BELTS

### X5 EPDM RUBBER BELTS

BESTORQ "X5" Cogged V-Belts and Banded Cogged V-Belts – A New Generation of V-Belt Performance • Experience next-level durability and efficiency with the new BESTORQ "X5" cogged and banded cogged V-belts, engineered for superior performance across demanding applications. • Constructed with an advanced EPDM compound, proven through rigorous durability testing to deliver exceptional belt life. • Operates reliably in extreme temperatures, from -60°F to +260°F. • Energy-efficient design outperforms competing EPDM cogged belts, thanks to optimized belt geometry and superior material chemistry. • Ideal for use with backside idlers—maintains belt life with virtually no degradation. • Outstanding resistance to ozone, oxygen, UV exposure, and weather-related aging, ensuring long-term reliability in harsh environments.



| Part #  | Size   | OC   | 4L/5L Equivalent | Part # | Size  | OC   | 4L/5L Equivalent |
|---------|--------|------|------------------|--------|-------|------|------------------|
| V3LX260 | 3LX260 | 26   | -                | VAX034 | AX034 | 36.1 | 4L360            |
| V3LX270 | 3LX270 | 27   | -                | VAX035 | AX035 | 37.1 | 4L370            |
| V3LX280 | 3LX280 | 28   | -                | VAX036 | AX036 | 38.1 | 4L380            |
| V3LX290 | 3LX290 | 29   | -                | VAX037 | AX037 | 39.1 | 4L390            |
| V3LX300 | 3LX300 | 30   | -                | VAX038 | AX038 | 40.1 | 4L400            |
| V3LX310 | 3LX310 | 31   | -                | VAX039 | AX039 | 41.1 | 4L410            |
| V3LX320 | 3LX320 | 32   | -                | VAX040 | AX040 | 42.1 | 4L420            |
| V3LX330 | 3LX330 | 33   | -                | VAX041 | AX041 | 43.1 | 4L430            |
| V3LX340 | 3LX340 | 34   | -                | VAX042 | AX042 | 44.1 | 4L440            |
| V3LX350 | 3LX350 | 35   | -                | VAX043 | AX043 | 45.1 | 4L450            |
| V3LX370 | 3LX370 | 37   | -                | VAX044 | AX044 | 46.1 | 4L460            |
| V3LX390 | 3LX390 | 39   | -                | VAX045 | AX045 | 47.1 | 4L470            |
| V3LX400 | 3LX400 | 40   | -                | VAX046 | AX046 | 48.1 | 4L480            |
| V3LX410 | 3LX410 | 41   | -                | VAX047 | AX047 | 49.1 | 4L490            |
| V3LX420 | 3LX420 | 42   | -                | VAX048 | AX048 | 50.1 | 4L500            |
| V3LX430 | 3LX430 | 43   | -                | VAX049 | AX049 | 51.1 | 4L510            |
| V3LX440 | 3LX440 | 44   | -                | VAX050 | AX050 | 52.1 | 4L520            |
| VAX020  | AX020  | 22.1 | 4L220            | VAX051 | AX051 | 53.1 | 4L530            |
| VAX021  | AX021  | 23.1 | 4L230            | VAX052 | AX052 | 54.1 | 4L540            |
| VAX022  | AX022  | 24.1 | 4L240            | VAX053 | AX053 | 55.1 | 4L550            |
| VAX023  | AX023  | 25.1 | 4L250            | VAX054 | AX054 | 56.1 | 4L560            |
| VAX024  | AX024  | 26.1 | 4L260            | VAX055 | AX055 | 57.1 | 4L570            |
| VAX025  | AX025  | 27.1 | 4L270            | VAX056 | AX056 | 58.1 | 4L580            |
| VAX026  | AX026  | 28.1 | 4L280            | VAX057 | AX057 | 59.1 | 4L590            |
| VAX027  | AX027  | 29.1 | 4L290            | VAX058 | AX058 | 60.1 | 4L600            |
| VAX028  | AX028  | 30.1 | 4L300            | VAX059 | AX059 | 61.1 | 4L610            |
| VAX029  | AX029  | 31.1 | 4L310            | VAX060 | AX060 | 62.1 | 4L620            |
| VAX030  | AX030  | 32.1 | 4L320            | VAX061 | AX061 | 63.1 | 4L630            |
| VAX031  | AX031  | 33.1 | 4L330            | VAX062 | AX062 | 64.1 | 4L640            |
| VAX032  | AX032  | 34.1 | 4L340            | VAX063 | AX063 | 65.1 | 4L650            |
| VAX033  | AX033  | 35.1 | 4L350            | VAX064 | AX064 | 66.1 | 4L660            |



X5 EPDM RUBBER BELTS

| Part # | Size  | OC    | 4L/5L<br>Equivalent | Part # | Size  | OC   | 4L/5L<br>Equivalent |
|--------|-------|-------|---------------------|--------|-------|------|---------------------|
| VAX065 | AX065 | 67.1  | 4L670               | VBX024 | BX024 | 27.1 | 5L270               |
| VAX066 | AX066 | 68.1  | 4L680               | VBX025 | BX025 | 28.1 | 5L280               |
| VAX067 | AX067 | 69.1  | 4L690               | VBX026 | BX026 | 29.1 | 5L290               |
| VAX068 | AX068 | 70.1  | 4L700               | VBX027 | BX027 | 30.1 | 5L300               |
| VAX069 | AX069 | 71.1  | 4L710               | VBX028 | BX028 | 31.1 | 5L310               |
| VAX070 | AX070 | 72.1  | 4L720               | VBX029 | BX029 | 32.1 | 5L320               |
| VAX071 | AX071 | 73.1  | 4L730               | VBX030 | BX030 | 33.1 | 5L330               |
| VAX072 | AX072 | 74.1  | 4L740               | VBX031 | BX031 | 34.1 | 5L340               |
| VAX073 | AX073 | 75.1  | 4L750               | VBX032 | BX032 | 35.1 | 5L350               |
| VAX074 | AX074 | 76.1  | 4L760               | VBX033 | BX033 | 36.1 | 5L360               |
| VAX075 | AX075 | 77.1  | 4L770               | VBX034 | BX034 | 37.1 | 5L370               |
| VAX076 | AX076 | 78.1  | 4L780               | VBX035 | BX035 | 38.1 | 5L380               |
| VAX077 | AX077 | 79.1  | 4L790               | VBX036 | BX036 | 39.1 | 5L390               |
| VAX078 | AX078 | 80.1  | 4L800               | VBX037 | BX037 | 40.1 | 5L400               |
| VAX079 | AX079 | 81.1  | 4L810               | VBX038 | BX038 | 41.1 | 5L410               |
| VAX080 | AX080 | 82.1  | 4L820               | VBX039 | BX039 | 42.1 | 5L420               |
| VAX081 | AX081 | 83.1  | 4L830               | VBX040 | BX040 | 43.1 | 5L430               |
| VAX082 | AX082 | 84.1  | 4L840               | VBX041 | BX041 | 44.1 | 5L440               |
| VAX083 | AX083 | 85.1  | 4L850               | VBX042 | BX042 | 45.1 | 5L450               |
| VAX084 | AX084 | 86.1  | 4L860               | VBX043 | BX043 | 46.1 | 5L460               |
| VAX085 | AX085 | 87.1  | 4L870               | VBX044 | BX044 | 47.1 | 5L470               |
| VAX086 | AX086 | 88.1  | 4L880               | VBX045 | BX045 | 48.1 | 5L480               |
| VAX087 | AX087 | 89.1  | 4L890               | VBX046 | BX046 | 49.1 | 5L490               |
| VAX088 | AX088 | 90.1  | 4L900               | VBX047 | BX047 | 50.1 | 5L500               |
| VAX089 | AX089 | 91.1  | 4L910               | VBX048 | BX048 | 51.1 | 5L510               |
| VAX090 | AX090 | 92.1  | 4L920               | VBX049 | BX049 | 52.1 | 5L520               |
| VAX091 | AX091 | 93.1  | 4L930               | VBX050 | BX050 | 53.1 | 5L530               |
| VAX092 | AX092 | 94.1  | 4L940               | VBX051 | BX051 | 54.1 | 5L540               |
| VAX093 | AX093 | 95.1  | 4L950               | VBX052 | BX052 | 55.1 | 5L550               |
| VAX094 | AX094 | 96.1  | 4L960               | VBX053 | BX053 | 56.1 | 5L560               |
| VAX095 | AX095 | 97.1  | 4L970               | VBX054 | BX054 | 57.1 | 5L570               |
| VAX096 | AX096 | 98.1  | 4L980               | VBX055 | BX055 | 58.1 | 5L580               |
| VAX097 | AX097 | 99.1  | 4L990               | VBX056 | BX056 | 59.1 | 5L590               |
| VAX098 | AX098 | 100.1 | 4L1000              | VBX057 | BX057 | 60.1 | 5L600               |
| VAX099 | AX099 | 101.1 | 4L1010              | VBX058 | BX058 | 61.1 | 5L610               |
| VAX100 | AX100 | 102.1 | 4L1020              | VBX059 | BX059 | 62.1 | 5L620               |
| VAX103 | AX103 | 105.1 | 4L1050              | VBX060 | BX060 | 63.1 | 5L630               |
| VAX105 | AX105 | 107.1 | 4L1070              | VBX061 | BX061 | 64.1 | 5L640               |
| VBX022 | BX022 | 25.1  | 5L250               | VBX062 | BX062 | 65.1 | 5L650               |
| VBX023 | BX023 | 26.1  | 5L260               | VBX063 | BX063 | 66.1 | 5L660               |

POWER TRANSMISSION SUPPLIES

## X5 EPDM RUBBER BELTS

| Part # | Size  | OC   | 4L/5L Equivalent | Part # | Size  | OC    | 4L/5L Equivalent |
|--------|-------|------|------------------|--------|-------|-------|------------------|
| VBX064 | BX064 | 67.1 | 5L670            | VBX097 | BX097 | 100.1 | 5L1000           |
| VBX065 | BX065 | 68.1 | 5L680            | VBX098 | BX098 | 101.1 | 5L1010           |
| VBX066 | BX066 | 69.1 | 5L690            | VBX099 | BX099 | 102.1 | 5L1020           |
| VBX067 | BX067 | 70.1 | 5L700            | VBX100 | BX100 | 103.1 | 5L1030           |
| VBX068 | BX068 | 71.1 | 5L710            | VBX101 | BX101 | 104.1 | 5L1040           |
| VBX069 | BX069 | 72.1 | 5L720            | VBX103 | BX103 | 106.1 | 5L1060           |
| VBX070 | BX070 | 73.1 | 5L730            | VBX105 | BX105 | 108.1 | 5L1080           |
| VBX071 | BX071 | 74.1 | 5L740            | VBX106 | BX106 | 109.1 | 5L1090           |
| VBX072 | BX072 | 75.1 | 5L750            | VBX108 | BX108 | 111.1 | 5L1110           |
| VBX073 | BX073 | 76.1 | 5L760            | VBX109 | BX109 | 112.1 | 5L1120           |
| VBX074 | BX074 | 77.1 | 5L770            | VBX110 | BX110 | 113.1 | 5L1130           |
| VBX075 | BX075 | 78.1 | 5L780            | VBX112 | BX112 | 115.1 | 5L1150           |
| VBX076 | BX076 | 79.1 | 5L790            | VBX113 | BX113 | 116.1 | 5L1160           |
| VBX077 | BX077 | 80.1 | 5L800            | VBX115 | BX115 | 118.1 | 5L1180           |
| VBX078 | BX078 | 81.1 | 5L810            | VBX116 | BX116 | 119.1 | 5L1190           |
| VBX079 | BX079 | 82.1 | 5L820            | VBX120 | BX120 | 123.1 | 5L1230           |
| VBX080 | BX080 | 83.1 | 5L830            | VBX123 | BX123 | 126.1 | 5L1260           |
| VBX081 | BX081 | 84.1 | 5L840            | VBX124 | BX124 | 127.1 | 5L1270           |
| VBX082 | BX082 | 85.1 | 5L850            | VBX128 | BX128 | 131.1 | 5L1310           |
| VBX083 | BX083 | 86.1 | 5L860            | VBX133 | BX133 | 136.1 | 5L1360           |
| VBX084 | BX084 | 87.1 | 5L870            | VBX140 | BX140 | 143.1 | -                |
| VBX085 | BX085 | 88.1 | 5L880            | VBX148 | BX148 | 151.1 | -                |
| VBX086 | BX086 | 89.1 | 5L890            | VBX150 | BX150 | 153.1 | -                |
| VBX087 | BX087 | 90.1 | 5L900            | VBX152 | BX152 | 155.1 | -                |
| VBX088 | BX088 | 91.1 | 5L910            | VCX051 | CX051 | 55.2  | -                |
| VBX089 | BX089 | 92.1 | 5L920            | VCX060 | CX060 | 64.2  | -                |
| VBX090 | BX090 | 93.1 | 5L930            | VCX068 | CX068 | 72.2  | -                |
| VBX091 | BX091 | 94.1 | 5L940            | VCX072 | CX072 | 76.2  | -                |
| VBX092 | BX092 | 95.1 | 5L950            | VCX075 | CX075 | 79.2  | -                |
| VBX093 | BX093 | 96.1 | 5L960            | VCX085 | CX085 | 89.2  | -                |
| VBX094 | BX094 | 97.1 | 5L970            | VCX090 | CX090 | 94.2  | -                |
| VBX095 | BX095 | 98.1 | 5L980            | VCX101 | CX101 | 105.2 | -                |
| VBX096 | BX096 | 99.1 | 5L990            |        |       |       |                  |

## V-BELTS

### KEVLAR\* CORDED LAWN & GARDEN BELTS

Bestorq "LIGHTNING" Lawn & Garden V-belts are for the most severe lawn & garden applications. They have a best in class outer fabric wrap and use true Kevlar\* tensile members. Use them for lawn & garden equipment of all types, ag equipment, and industrial drives.



| Part #   | Size    | OC | Part #   | Size  | OC |
|----------|---------|----|----------|-------|----|
| VL3L0210 | 3L210LG | 21 | VL4L0400 | A38LG | 40 |
| VL3L0240 | 3L240LG | 24 | VL4L0410 | A39LG | 41 |
| VL3L0250 | 3L250LG | 25 | VL4L0420 | A40LG | 42 |
| VL3L0260 | 3L260LG | 26 | VL4L0430 | A41LG | 43 |
| VL3L0270 | 3L270LG | 27 | VL4L0440 | A42LG | 44 |
| VL3L0280 | 3L280LG | 28 | VL4L0450 | A43LG | 45 |
| VL3L0290 | 3L290LG | 29 | VL4L0460 | A44LG | 46 |
| VL3L0300 | 3L300LG | 30 | VL4L0470 | A45LG | 47 |
| VL3L0310 | 3L310LG | 31 | VL4L0480 | A46LG | 48 |
| VL3L0320 | 3L320LG | 32 | VL4L0490 | A47LG | 49 |
| VL3L0330 | 3L330LG | 33 | VL4L0500 | A48LG | 50 |
| VL3L0340 | 3L340LG | 34 | VL4L0510 | A49LG | 51 |
| VL3L0350 | 3L350LG | 35 | VL4L0520 | A50LG | 52 |
| VL3L0370 | 3L370LG | 37 | VL4L0530 | A51LG | 53 |
| VL3L0380 | 3L380LG | 38 | VL4L0540 | A52LG | 54 |
| VL3L0400 | 3L400LG | 40 | VL4L0550 | A53LG | 55 |
| VL3L0420 | 3L420LG | 42 | VL4L0560 | A54LG | 56 |
| VL3L0450 | 3L450LG | 45 | VL4L0570 | A55LG | 57 |
| VL4L0220 | A20LG   | 22 | VL4L0580 | A56LG | 58 |
| VL4L0230 | A21LG   | 23 | VL4L0590 | A57LG | 59 |
| VL4L0240 | A22LG   | 24 | VL4L0600 | A58LG | 60 |
| VL4L0250 | A23LG   | 25 | VL4L0610 | A59LG | 61 |
| VL4L0260 | A24LG   | 26 | VL4L0620 | A60LG | 62 |
| VL4L0270 | A25LG   | 27 | VL4L0630 | A61LG | 63 |
| VL4L0280 | A26LG   | 28 | VL4L0640 | A62LG | 64 |
| VL4L0290 | A27LG   | 29 | VL4L0650 | A63LG | 65 |
| VL4L0300 | A28LG   | 30 | VL4L0660 | A64LG | 66 |
| VL4L0310 | A29LG   | 31 | VL4L0670 | A65LG | 67 |
| VL4L0320 | A30LG   | 32 | VL4L0680 | A66LG | 68 |
| VL4L0330 | A31LG   | 33 | VL4L0690 | A67LG | 69 |
| VL4L0340 | A32LG   | 34 | VL4L0700 | A68LG | 70 |
| VL4L0350 | A33LG   | 35 | VL4L0710 | A69LG | 71 |
| VL4L0360 | A34LG   | 36 | VL4L0720 | A70LG | 72 |
| VL4L0370 | A35LG   | 37 | VL4L0730 | A71LG | 73 |
| VL4L0380 | A36LG   | 38 | VL4L0740 | A72LG | 74 |
| VL4L0390 | A37LG   | 39 | VL4L0750 | A73LG | 75 |

## KEVLAR\* CORDED LAWN &amp; GARDEN BELTS

| Part #   | Size   | OC    | Part #   | Size   | OC    |
|----------|--------|-------|----------|--------|-------|
| VL4L0760 | A74LG  | 76    | VL4L1190 | A117LG | 119   |
| VL4L0770 | A75LG  | 77    | VL4L1200 | A118LG | 120   |
| VL4L0780 | A76LG  | 78    | VL4L1210 | A119LG | 121.2 |
| VL4L0790 | A77LG  | 79    | VL4L1550 | A153LG | 155.2 |
| VL4L0800 | A78LG  | 80    | VL5L0290 | B26LG  | 29    |
| VL4L0810 | A79LG  | 81    | VL5L0330 | B30LG  | 33    |
| VL4L0820 | A80LG  | 82    | VL5L0340 | B31LG  | 34    |
| VL4L0830 | A81LG  | 83    | VL5L0350 | B32LG  | 35    |
| VL4L0840 | A82LG  | 84    | VL5L0360 | B33LG  | 36    |
| VL4L0850 | A83LG  | 85    | VL5L0370 | B34LG  | 37    |
| VL4L0860 | A84LG  | 86    | VL5L0380 | B35LG  | 38    |
| VL4L0870 | A85LG  | 87    | VL5L0390 | B36LG  | 39    |
| VL4L0880 | A86LG  | 88    | VL5L0400 | B37LG  | 40    |
| VL4L0890 | A87LG  | 89    | VL5L0410 | B38LG  | 41    |
| VL4L0900 | A88LG  | 90    | VL5L0420 | B39LG  | 42    |
| VL4L0910 | A89LG  | 91    | VL5L0430 | B40LG  | 43    |
| VL4L0920 | A90LG  | 92    | VL5L0440 | B41LG  | 44    |
| VL4L0930 | A91LG  | 93    | VL5L0450 | B42LG  | 45    |
| VL4L0940 | A92LG  | 94    | VL5L0460 | B43LG  | 46    |
| VL4L0950 | A93LG  | 95    | VL5L0470 | B44LG  | 47    |
| VL4L0960 | A94LG  | 96    | VL5L0480 | B45LG  | 48    |
| VL4L0970 | A95LG  | 97    | VL5L0490 | B46LG  | 49    |
| VL4L0980 | A96LG  | 98    | VL5L0500 | B47LG  | 50    |
| VL4L0990 | A97LG  | 99    | VL5L0510 | B48LG  | 51    |
| VL4L1000 | A98LG  | 100   | VL5L0520 | B49LG  | 52    |
| VL4L1010 | A99LG  | 101   | VL5L0530 | B50LG  | 53    |
| VL4L1020 | A100LG | 102   | VL5L0540 | B51LG  | 54    |
| VL4L1030 | A101LG | 103   | VL5L0550 | B52LG  | 55    |
| VL4L1040 | A102LG | 104   | VL5L0560 | B53LG  | 56    |
| VL4L1050 | A103LG | 105   | VL5L0570 | B54LG  | 57    |
| VL4L1060 | A104LG | 106.2 | VL5L0580 | B55LG  | 58    |
| VL4L1080 | A106LG | 106   | VL5L0590 | B56LG  | 59    |
| VL4L1090 | A107LG | 107   | VL5L0600 | B57LG  | 60    |
| VL4L1100 | A108LG | 110   | VL5L0610 | B58LG  | 61    |
| VL4L1110 | A109LG | 111   | VL5L0620 | B59LG  | 62    |
| VL4L1120 | A110LG | 112   | VL5L0630 | B60LG  | 63    |
| VL4L1130 | A111LG | 113   | VL5L0640 | B61LG  | 64    |
| VL4L1140 | A112LG | 114   | VL5L0650 | B62LG  | 65    |
| VL4L1150 | A113LG | 115   | VL5L0660 | B63LG  | 66    |
| VL4L1160 | A114LG | 116   | VL5L0670 | B64LG  | 67    |
| VL4L1170 | A115LG | 117   | VL5L0680 | B65LG  | 68    |
| VL4L1180 | A116LG | 118   | VL5L0690 | B66LG  | 69    |

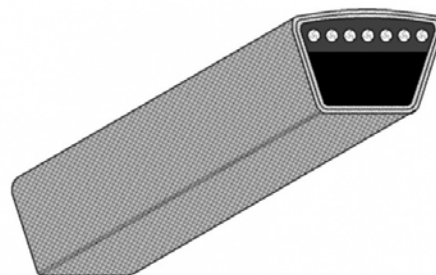
# V-BELTS

## KEVLAR\* CORDED LAWN & GARDEN BELTS

| Part #   | Size  | OC | Part #   | Size   | OC  |
|----------|-------|----|----------|--------|-----|
| VL5L0700 | B67LG | 70 | VL5L1000 | B97LG  | 100 |
| VL5L0710 | B68LG | 71 | VL5L1010 | B98LG  | 101 |
| VL5L0720 | B69LG | 72 | VL5L1020 | B99LG  | 102 |
| VL5L0730 | B70LG | 73 | VL5L1030 | B100LG | 103 |
| VL5L0740 | B71LG | 74 | VL5L1040 | B101LG | 104 |
| VL5L0750 | B72LG | 75 | VL5L1050 | B102LG | 105 |
| VL5L0760 | B73LG | 76 | VL5L1060 | B103LG | 106 |
| VL5L0770 | B74LG | 77 | VL5L1070 | B104LG | 107 |
| VL5L0780 | B75LG | 78 | VL5L1080 | B105LG | 108 |
| VL5L0790 | B76LG | 79 | VL5L1090 | B106LG | 109 |
| VL5L0800 | B77LG | 80 | VL5L1100 | B107LG | 110 |
| VL5L0810 | B78LG | 81 | VL5L1110 | B108LG | 111 |
| VL5L0820 | B79LG | 82 | VL5L1120 | B109LG | 112 |
| VL5L0830 | B80LG | 83 | VL5L1130 | B110LG | 113 |
| VL5L0840 | B81LG | 84 | VL5L1140 | B111LG | 114 |
| VL5L0850 | B82LG | 85 | VL5L1150 | B112LG | 115 |
| VL5L0860 | B83LG | 86 | VL5L1160 | B113LG | 116 |
| VL5L0870 | B84LG | 87 | VL5L1170 | B114LG | 117 |
| VL5L0880 | B85LG | 88 | VL5L1180 | B115LG | 118 |
| VL5L0890 | B86LG | 89 | VL5L1190 | B116LG | 119 |
| VL5L0900 | B87LG | 90 | VL5L1200 | B117LG | 120 |
| VL5L0910 | B88LG | 91 | VL5L1210 | B118LG | 121 |
| VL5L0920 | B89LG | 92 | VL5L1220 | B119LG | 123 |
| VL5L0930 | B90LG | 93 | VL5L1230 | B120LG | 124 |
| VL5L0940 | B91LG | 94 | VL5L1240 | B121LG | 124 |
| VL5L0950 | B92LG | 95 | VL5L1330 | B130LG | 133 |
| VL5L0960 | B93LG | 96 | VL5L1340 | B131LG | 134 |
| VL5L0970 | B94LG | 97 | VL5L1360 | B133LG | 136 |
| VL5L0980 | B95LG | 98 | VL5L1420 | B139LG | 142 |
| VL5L0990 | B96LG | 99 |          |        |     |

## X3 CLASSICAL

X3 belts bring in a new generation of wrapped V-Belt performance. They are specially designed to be low maintenance, and are proven to be extra durable for belt life that will outlast the competition



| Part # | Size | OC    | 4L/5L Equivalent | Part # | Size | OC   | 4L/5L Equivalent |
|--------|------|-------|------------------|--------|------|------|------------------|
| VA020  | A020 | 22.1  | 4L220            | VB034  | B034 | 37.1 | 5L370            |
| VA021  | A021 | 23.1  | 4L230            | VB039  | B039 | 42.1 | 5L420            |
| VA022  | A022 | 24.1  | 4L240            | VB040  | B040 | 43.1 | 5L430            |
| VA029  | A029 | 31.1  | 4L310            | VB042  | B042 | 45.1 | 5L450            |
| VA031  | A031 | 33.1  | 4L330            | VB043  | B043 | 46.1 | 5L460            |
| VA032  | A032 | 34.1  | 4L340            | VB044  | B044 | 47.1 | 5L470            |
| VA033  | A033 | 35.1  | 4L350            | VB046  | B046 | 49.1 | 5L490            |
| VA034  | A034 | 36.1  | 4L360            | VB047  | B047 | 50.1 | 5L500            |
| VA035  | A035 | 37.1  | 4L370            | VB048  | B048 | 51.1 | 5L510            |
| VA036  | A036 | 38.1  | 4L380            | VB049  | B049 | 52.1 | 5L520            |
| VA037  | A037 | 39.1  | 4L390            | VB051  | B051 | 54.1 | 5L540            |
| VA038  | A038 | 40.1  | 4L400            | VB052  | B052 | 55.1 | 5L550            |
| VA039  | A039 | 41.1  | 4L410            | VB053  | B053 | 56.1 | 5L560            |
| VA040  | A040 | 42.1  | 4L420            | VB054  | B054 | 57.1 | 5L570            |
| VA041  | A041 | 43.1  | 4L430            | VB055  | B055 | 58.1 | 5L580            |
| VA042  | A042 | 44.1  | 4L440            | VB056  | B056 | 59.1 | 5L590            |
| VA043  | A043 | 45.1  | 4L450            | VB057  | B057 | 60.1 | 5L600            |
| VA044  | A044 | 46.1  | 4L460            | VB058  | B058 | 61.1 | 5L610            |
| VA045  | A045 | 47.1  | 4L470            | VB059  | B059 | 62.1 | 5L620            |
| VA046  | A046 | 48.1  | 4L480            | VB060  | B060 | 63.1 | 5L630            |
| VA047  | A047 | 49.1  | 4L490            | VB062  | B062 | 65.1 | 5L650            |
| VA048  | A048 | 50.1  | 4L500            | VB063  | B063 | 66.1 | 5L660            |
| VA049  | A049 | 51.1  | 4L510            | VB064  | B064 | 67.1 | 5L670            |
| VA050  | A050 | 52.1  | 4L520            | VB065  | B065 | 68.1 | 5L680            |
| VA069  | A069 | 71.1  | 4L710            | VB068  | B068 | 71.1 | 5L710            |
| VA070  | A070 | 72.1  | 4L720            | VB069  | B069 | 72.1 | 5L720            |
| VA071  | A071 | 73.1  | 4L730            | VB070  | B070 | 73.1 | 5L730            |
| VA072  | A072 | 74.1  | 4L740            | VB072  | B072 | 75.1 | 5L750            |
| VA073  | A073 | 75.1  | 4L750            | VB074  | B074 | 77.1 | 5L770            |
| VA074  | A074 | 76.1  | 4L760            | VB075  | B075 | 78.1 | 5L780            |
| VA075  | A075 | 77.1  | 4L770            | VB081  | B081 | 84.1 | 5L840            |
| VA086  | A086 | 88.1  | 4L880            | VB082  | B082 | 85.1 | 5L850            |
| VA108  | A108 | 110.1 | -                | VB084  | B084 | 87.1 | 5L870            |

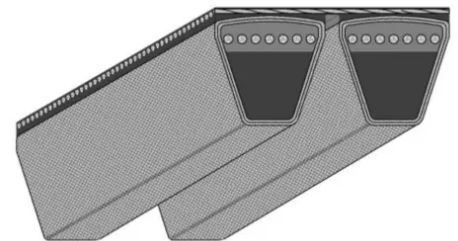
# V-BELTS

## X3 CLASSICAL

| Part # | Size | OC    | 4L/5L Equivalent | Part # | Size | OC    | 4L/5L Equivalent |
|--------|------|-------|------------------|--------|------|-------|------------------|
| VB086  | B086 | 89.1  | 5L890            | VB128  | B128 | 131.1 | -                |
| VB089  | B089 | 92.1  | 5L920            | VB132  | B132 | 135.1 | -                |
| VB090  | B090 | 93.1  | 5L930            | VB134  | B134 | 137.1 | -                |
| VB091  | B091 | 94.1  | 5L940            | VB136  | B136 | 139.1 | -                |
| VB092  | B092 | 95.1  | 5L950            | VB144  | B144 | 147.1 | -                |
| VB094  | B094 | 97.1  | 5L970            | VB146  | B146 | 149.1 | -                |
| VB102  | B102 | 105.1 | -                | VB150  | B150 | 153.1 | -                |
| VB104  | B104 | 107.1 | -                | VB170  | B170 | 173   | -                |
| VB106  | B106 | 109.1 | -                | VC046  | C046 | 50.2  | -                |
| VB112  | B112 | 115.1 | -                | VC060  | C060 | 64.2  | -                |
| VB114  | B114 | 117.1 | -                | VC076  | C076 | 80.2  | -                |
| VB116  | B116 | 119.1 | -                | VC080  | C080 | 84.2  | -                |
| VB118  | B118 | 121.1 | -                | VC082  | C082 | 86.2  | -                |
| VB120  | B120 | 123.1 | -                | VC083  | C083 | 87.2  | -                |
| VB122  | B122 | 125.1 | -                | VC114  | C114 | 118.2 | -                |
| VB124  | B124 | 127.1 | -                | VC125  | C125 | 129   | -                |
| VB126  | B126 | 129.1 | -                | VC126  | C126 | 130   | -                |

## CLASSICAL BANDED - B Belts 2 Band

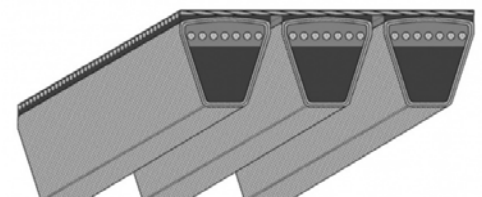
Banded belts are an excellent alternative to using single matched belts since they are perfectly matched every time.



| Part # | Size   | Part # | Size   |
|--------|--------|--------|--------|
| V2B048 | B048/2 | V2B082 | B082/2 |
| V2B049 | B049/2 | V2B084 | B084/2 |
| V2B052 | B052/2 | V2B087 | B087/2 |
| V2B064 | B064/2 | V2B097 | B097/2 |
| V2B067 | B067/2 | V2B124 | B124/2 |
| V2B073 | B073/2 |        |        |

## CLASSICAL BANDED - B Belts 3 Band

| Part # | Size   |
|--------|--------|
| V3B073 | B073/3 |
| V3B103 | B103/3 |
| V3B105 | B105/3 |
| V3B128 | B128/3 |



## X5 EPDM COGGED 2 BAND



| Part #  | Size   |
|---------|--------|
| V2BX040 | BX40/2 |
| V2BX043 | BX43/2 |
| V2BX051 | BX51/2 |
| V2BX052 | BX52/2 |
| V2BX055 | BX55/2 |
| V2BX058 | BX58/2 |
| V2BX064 | BX64/2 |
| V2BX066 | BX66/2 |
| V2BX068 | BX68/2 |
| V2BX069 | BX69/2 |
| V2BX070 | BX70/2 |
| V2BX072 | BX72/2 |
| V2BX074 | BX74/2 |
| V2BX075 | BX75/2 |
| V2BX077 | BX77/2 |

| Part #  | Size    |
|---------|---------|
| V2BX078 | BX78/2  |
| V2BX079 | BX79/2  |
| V2BX080 | BX80/2  |
| V2BX083 | BX83/2  |
| V2BX084 | BX84/2  |
| V2BX085 | BX85/2  |
| V2BX088 | B088/2  |
| V2BX089 | BX89/2  |
| V2BX092 | BX92/2  |
| V2BX093 | BX93/2  |
| V2BX094 | BX94/2  |
| V2BX095 | BX95/2  |
| V2BX096 | BX96/2  |
| V2BX103 | BX103/2 |
| V2BX105 | BX105/2 |

## X5 EPDM COGGED 3 BAND

| Part #  | Size    |
|---------|---------|
| V3BX062 | BX62/3  |
| V3BX075 | BX75/3  |
| V3BX080 | BX80/3  |
| V3BX108 | BX108/3 |



## WRAPPED - 3L

| Part # | Size  | OC | 4L/5L Equivalent |
|--------|-------|----|------------------|
| V3L280 | 3L280 | 28 | -                |
| V3L320 | 3L320 | 32 | -                |
| V3L340 | 3L340 | 34 | -                |
| V3L380 | 3L380 | 38 | -                |
| V3L440 | 3L440 | 44 | -                |





# V-BELTS, DURODRIVE, BESTORQ LASER SHEAVE & SPROCKET ALIGNMENT TOOL

## WEDGE COGGED

Wedge Cogged V-Belts offer the advantages of the Wedge belts along with the advantages of cogged belts! Outside circumference is determined by dividing the last 3 or 4 digits of the size by 10.

| Part #  | Size   |
|---------|--------|
| V3VX315 | 3VX315 |
| V3VX375 | 3VX375 |
| V3VX425 | 3VX425 |
| V3VX450 | 3VX450 |
| V3VX560 | 3VX560 |
| V3VX750 | 3VX750 |
| V5VX425 | 5VX425 |
| V5VX475 | 5VX475 |
| V5VX760 | 5VX760 |



## CLASSICAL HEX

| Part #  | Size  | OC    |
|---------|-------|-------|
| VBBB102 | BB102 | 106.7 |
| VBBB103 | BB103 | 107.7 |



## DURODRIVE

DuroDrive belting is a belt you can take apart by hand so you can install the belt without disassembling the machine. It fits on the same pulleys as a regular a or b belt. It comes in 25' rolls and can be ordered in any length by 1" increments.

| Part # | Size |
|--------|------|
| VL3L   | 3L   |
| VLA    | A    |
| VLB    | B    |



## BESTORQ LASER SHEAVE & SPROCKET ALIGNMENT TOOL

| Part # | Description                                    |
|--------|------------------------------------------------|
| TOLAT1 | Bestorq Laser Sheave & Sprocket Alignment Tool |

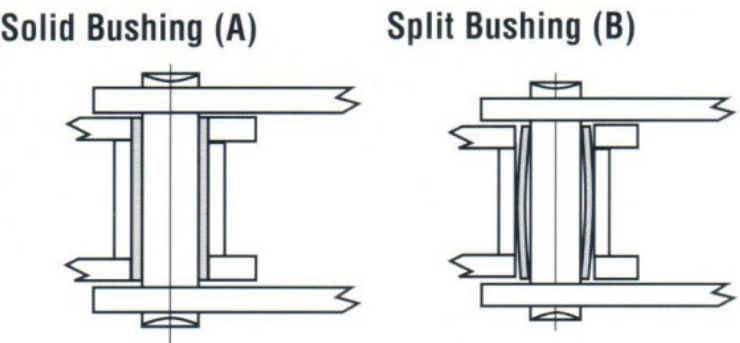


HKK CHAIN



HKK Roller Chain is a premium quality roller chain which features solid bushings and solid rollers as standard on most of their chains. HKK is continually striving to make new breakthroughs in roller chain design. Combining quality, reliability, and cost with new technology and improved materials they provide the highest quality chain. HKK roller chain is manufactured in Japan.

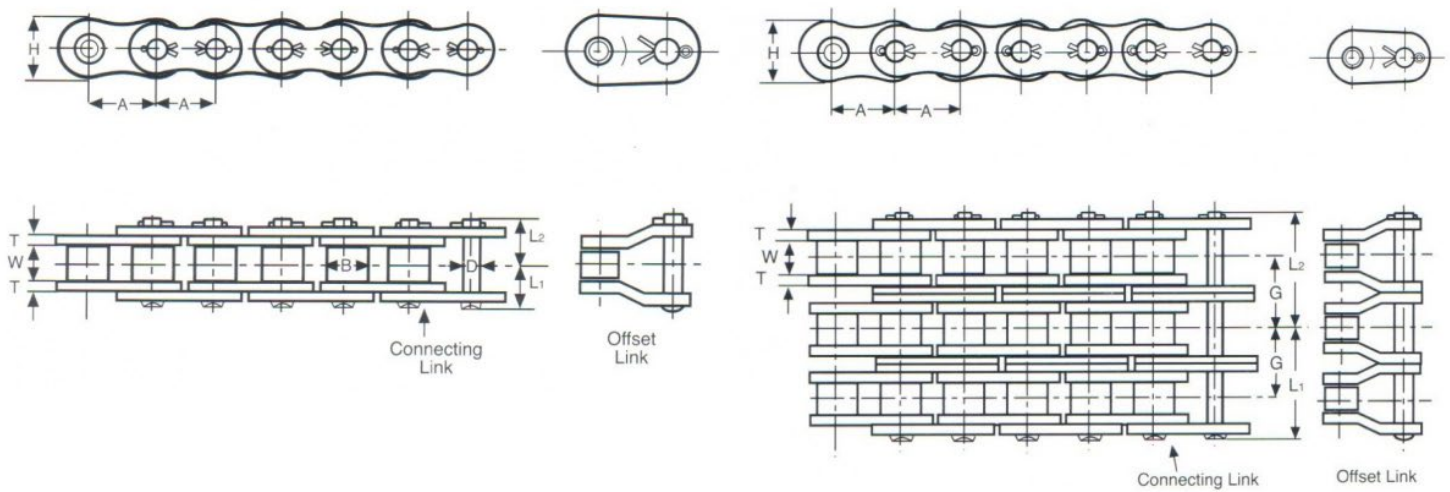
HKK's cold forged solid bushings and solid rollers retain their cylindrical inside and outside walls resulting in better pin bushing contact for longer chain life.



SALT WATER IMMERSION TEST

| Chain Type           | Hours to Start Corrosion | Maximum Allowable Load |
|----------------------|--------------------------|------------------------|
| ZINC PLATED          | 48-60                    | 1950 LBS.              |
| NICKEL PLATED        | 48-60                    | 1950 LBS.              |
| 300 SERIES STAINLESS | 840 (NO CORROSION)       | 231 LBS.               |

# HKK CHAIN



## DIMENSIONS

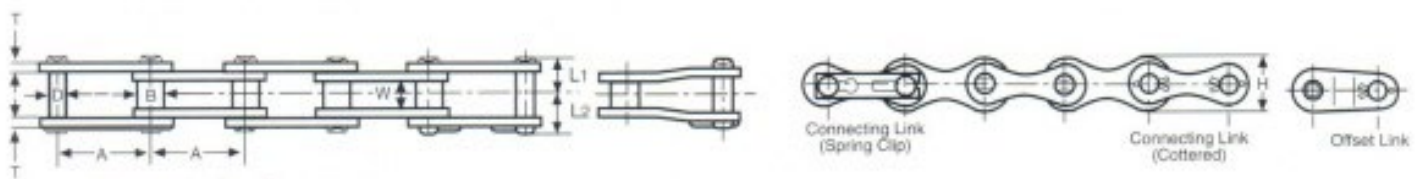
| Chain # | Pitch | Roller   |         | Pin      | Plate  |           | Overall Width |        | Maximum Allowable Load |
|---------|-------|----------|---------|----------|--------|-----------|---------------|--------|------------------------|
|         | A     | Diameter | Width   | Diameter | Height | Thickness | L1            | L2     |                        |
|         |       | B        | W       | D        | H      | T         |               |        |                        |
| 25      | 1/4   | 0.130    | 1/8     | 0.091    | 0.236  | 0.030     | 0.150         | 0.185  | 140                    |
| 35      | 3/8   | 0.200    | 3/16    | 0.141    | 0.347  | 0.050     | 0.233         | 0.267  | 480                    |
| 35-2    | 3/8   | 0.200    | 3/16    | 0.141    | 0.347  | 0.050     | 0.432         | 0.454  | 810                    |
| 40      | 1/2   | 0.312    | 5/16    | 0.156    | 0.457  | 0.060     | 0.323         | 0.354  | 810                    |
| 40-2    | 1/2   | 0.312    | 5/16    | 0.156    | 0.457  | 0.060     | 0.603         | 0.645  | 1370                   |
| 40-3    | 1/2   | 0.312    | 5/16    | 0.156    | 0.457  | 0.060     | 0.882         | 0.933  | 2025                   |
| 41      | 1/2   | 0.306    | 1/4     | 0.141    | 0.386  | 0.050     | 0.266         | 0.312  | 500                    |
| 43      | 1/2   | 0.306    | 1/8     | 0.143    | 0.386  | 0.038     | 0.375*        | 0.375* | **                     |
| 50      | 5/8   | 0.400    | 3/8     | 0.200    | 0.571  | 0.080     | 0.400         | 0.445  | 1400                   |
| 50-2    | 5/8   | 0.400    | 3/8     | 0.200    | 0.571  | 0.080     | 0.752         | 0.803  | 2380                   |
| 60      | 3/4   | 0.469    | 1/2     | 0.234    | 0.689  | 0.094     | 0.500         | 0.548  | 1950                   |
| 60-2    | 3/4   | 0.469    | 1/2     | 0.234    | 0.689  | 0.094     | 0.945         | 1.000  | 3315                   |
| 60-3    | 3/4   | 0.469    | 1/2     | 0.234    | 0.689  | 0.094     | 1.386         | 1.457  | 4875                   |
| 80      | 1     | 0.625    | 5/8     | 0.312    | 0.921  | 0.125     | 0.628         | 0.750  | 3300                   |
| 80-2    | 1     | 0.625    | 5/8     | 0.312    | 0.921  | 0.125     | 1.201         | 1.319  | 5610                   |
| 100     | 1 1/4 | 0.750    | 3/4     | 0.375    | 1.154  | 0.156     | 0.772         | 0.913  | 5060                   |
| 100-2   | 1 1/4 | 0.750    | 3/4     | 0.375    | 1.154  | 0.156     | 1.475         | 1.608  | 8600                   |
| 120     | 1 1/2 | 0.875    | 1       | 0.437    | 1.382  | 0.187     | 0.971         | 1.124  | 6800                   |
| 120-2   | 1 1/2 | 0.875    | 1       | 0.437    | 1.382  | 0.187     | 1.857         | 2.010  | 11560                  |
| 140     | 1 3/4 | 1.000    | 1       | 0.500    | 1.610  | 0.219     | 1.060         | 1.228  | 9000                   |
| 160     | 2     | 1.125    | 1-1/4   | 0.562    | 1.839  | 0.250     | 1.262         | 1.435  | 11900                  |
| 180     | 2 1/4 | 1.406    | 1-13/32 | 0.687    | 2.067  | 0.283     | 1.429         | 1.658  | 13000                  |
| 200     | 2 1/2 | 1.562    | 1-1/2   | 0.781    | 2.354  | 0.312     | 1.542         | 1.876  | 16000                  |

\*Overall width for riveted chain

\*\*Maximum Allowable Load unavailable. Average Ultimate Strength is 2100 lb.

## DIMENSIONS

| Chain # | Pitch | Roller   |       | Pin      | Plate  |           | Overall Width |       | Maximum Allowable Load |
|---------|-------|----------|-------|----------|--------|-----------|---------------|-------|------------------------|
|         | A     | Diameter | Width | Diameter | Height | Thickness | L1            | L2    |                        |
|         |       | B        | W     | D        | H      | T         |               |       |                        |
| 50H     | 5/8   | 0.400    | 3/8   | 0.200    | 0.577  | 0.094     | 0.437         | 0.512 | 1400                   |
| 60H     | 3/4   | 0.469    | 1/2   | 0.234    | 0.689  | 0.125     | 0.565         | 0.644 | 2000                   |
| 60-2H   | 3/4   | 0.469    | 1/2   | 0.234    | 0.689  | 0.125     | 1.077         | 1.606 | 3400                   |
| 80H     | 1     | 0.625    | 5/8   | 0.312    | 0.921  | 0.156     | 0.699         | 0.817 | 3400                   |
| 100H    | 1-1/4 | 0.750    | 3/4   | 0.375    | 1.154  | 0.187     | 0.831         | 0.969 | 5200                   |
| 120H    | 1-1/2 | 0.875    | 1     | 0.437    | 1.382  | 0.219     | 1.036         | 1.208 | 7000                   |
| 140H    | 1-3/4 | 1.000    | 1     | 0.500    | 1.610  | 0.250     | 1.122         | 1.304 | 9200                   |
| 160H    | 2     | 1.125    | 1-1/4 | 0.562    | 1.839  | 0.281     | 1.333         | 1.534 | 12300                  |



| Chain # | Pitch | Roller   |       | Pin      | Plate  |           | Overall Width |       | Maximum Allowable Load |
|---------|-------|----------|-------|----------|--------|-----------|---------------|-------|------------------------|
|         | A     | Diameter | Width | Diameter | Height | Thickness | L1            | L2    |                        |
|         |       | B        | W     | D        | H      | T         |               |       |                        |
| A2040   | 1     | 0.312    | 5/16  | 0.156    | 0.450  | 0.060     | 0.323         | 0.378 | 600                    |
| A2050   | 1-1/4 | 0.400    | 3/8   | 0.200    | 0.571  | 0.080     | 0.400         | 0.407 | 1000                   |
| A2060   | 1-1/2 | 0.469    | 1/2   | 0.234    | 0.670  | 0.094     | 0.500         | 0.583 | 1300                   |
| A2080   | 2     | 0.625    | 5/8   | 0.312    | 0.890  | 0.125     | 0.628         | 0.750 | 2300                   |
| C2050   | 1-1/4 | 0.400    | 3/8   | 0.200    | 0.591  | 0.080     | 0.400         | 0.467 | 1000                   |
| C2060H  | 1-1/2 | 0.469    | 1/2   | 0.234    | 0.670  | 0.125     | 0.565         | 0.657 | 1400                   |
| C2080H  | 2     | 0.625    | 5/8   | 0.312    | 0.890  | 0.156     | 0.699         | 0.829 | 2400                   |
| C2100H  | 2-1/2 | 0.750    | 3/4   | 0.375    | 1.126  | 0.187     | 0.831         | 0.969 | 3900                   |

# ROLLER CHAIN

## ROLLER CHAIN

The following sizes and types of roller chain are also stocked by HKK and are available in 3-5 days:

- ~Standard Roller Chain in sizes up to 240 and in multiple strand
- ~Heavy Roller Chain in sizes up to 200 and in 2 strand
- ~Double Pitch Roller Chain Conveyor Type
- ~Standard Rollers in C2040 to C2160H
- ~Carrier Rollers in C0242 to C2162H
- ~British Standard Roller Chain in 04B to 32B and in 2 strand
- ~Standard Stainless Steel in sizes 25-120 and in 2 strand
- ~British Standard Stainless Steel in sizes 05B-16B
- ~Double Pitch Stainless Steel in sizes A2040 to C2100H
- ~Leaf Chain (Forklift Chain) in AL and BL series

They also carry many attachments for the above chains.

| Size   | Part #    |             |                          |              |
|--------|-----------|-------------|--------------------------|--------------|
|        | 10' roll  | 50' Reel    | Connecting Link*         | Offset Link* |
| 25     | -         | -           | RCH025C                  | RCH025O      |
| 35     | RCH035    | RCH03550    | RCH035C                  | RCH035O      |
| 40     | RCH040    | RCH04050    | RCH040C                  | RCH040O      |
| 41     | RCH041    | RCH04150    | RCH041C                  | RCH041O      |
| 43     | RCH043    | RCH04350    | RCH043C                  | RCH043O      |
| 50     | RCH050    | RCH05050    | RCH050C                  | RCH050O      |
| 50H    | RCH050H   | RCH050H50   | RCH050HC                 | RCH050HO     |
| 60     | RCH060    | RCH06050    | RCH060C                  | RCH060O      |
| 60H    | RCH060H   | RCH060H50   | RCH060HC,<br>RCH060HCC** | RCH060HO     |
| 80     | RCH080    | RCH08050    | RCH080C                  | RCH080O      |
| 80H    | RCH080H   | RCH080H50   | RCH080HC                 | RCH080HO     |
| 100    | RCH100    | -           | RCH100C                  | RCH100O      |
| 100H   | RCH100H   | -           | RCH100HC                 | RCH100HO     |
| 120    | RCH120    | -           | RCH120C                  | RCH120O      |
| 120H   | RCH120H   | -           | RCH120HC                 | RCH120HO     |
| 140    | RCH140    | -           | RCH140C                  | RCH140O      |
| 160    | RCH160    | -           | RCH160C                  | RCH160O      |
| A2040  | RCH2040   | RCH204050   | RCH2040C                 | RCH2040O     |
| A2050  | RCH2050   | RCH205050   | RCH2050C                 | RCH2050O     |
| A2060  | RCH2060   | RCH206050   | RCH2060C                 | RCH2060O     |
| A2080  | RCH2080   | -           | RCH2080C                 | RCH2080O     |
| 40-2   | RCH402    | -           | RCH402C                  | RCH402O      |
| 50-2   | RCH502    | -           | RCH502C                  | RCH502O      |
| 60-2   | RCH602    | RCH60250    | RCH602C,<br>RCH602CC**   | RCH602O      |
| 60-2H  | -         | -           | RCH602HC                 | -            |
| 80-2   | -         | -           | RCH802C                  | RCH802O      |
| C2060H | RCHC2060H | RCHC2060H50 | RCHC2060HC               | RCHC2060HO   |
| C2080H | -         | -           | RCHC2080HC               | RCHC2080HO   |
| 06B    | -         | -           | RCH06BC                  | RCH06BO      |
| 08B    | RCH08B    | -           | RCH08BC                  | RCH08BO      |
| 40     | RCHSS040  | -           | RCHSS040C                | RCHSS040O    |
| 50     | RCHSS050  | -           | RCHSS050C                | RCHSS050O    |
| 60     | RCHSS060  | -           | RCHSS060C                | RCHSS060O    |
| A2050  | RCHSS2050 | -           | RCHSS2050C               | -            |

\*Connecting links are also commonly called repair links or master links. Offset Links are also commonly called half links or skip links.

## HKK® ROLLER CHAIN

### Standard Length Packaging

| Chain | 10' Box | 20' Box | 50' Reel | 100' Reel | 200' Reel | 250' Reel | 500' Reel |
|-------|---------|---------|----------|-----------|-----------|-----------|-----------|
| #25   | X       | -       | -        | -         | -         | -         | X         |
| #35   | X       | X       | X        | X         | -         | X         | -         |
| #40   | X       | X       | X        | X         | X         | -         | -         |
| #41   | X       | -       | -        | -         | -         | X         | -         |
| #50   | X       | X       | X        | X         | -         | -         | -         |
| #60   | X       | X       | X        | X         | -         | -         | -         |
| #80   | X       | -       | X        | -         | -         | -         | -         |
| #100  | X       | -       | X        | -         | -         | -         | -         |
| #120  | X       | -       | -        | -         | -         | -         | -         |
| #140  | X       | -       | -        | -         | -         | -         | -         |
| #160  | X       | -       | -        | -         | -         | -         | -         |
| #180  | X       | -       | -        | -         | -         | -         | -         |
| #200  | X       | -       | -        | -         | -         | -         | -         |
| #240  | X       | -       | -        | -         | -         | -         | -         |

## ALLIED LOCKE CHAINS

Allied Locke Industries is an American manufacturer of many types of high quality ag chain, engineering class chain, and sprockets. They also import a quality precision roller chain.

## ALI ROLLER CHAIN

ALI Roller Chain is a quality roller chain that is imported from China and Taiwan by Allied-Locke Industries. Its affordable price makes it especially attractive for less demanding applications. Please note: Part numbers are only listed for stock items. Allied-Locke carries a complete line of roller chain. Please call us for availability on items not listed here.

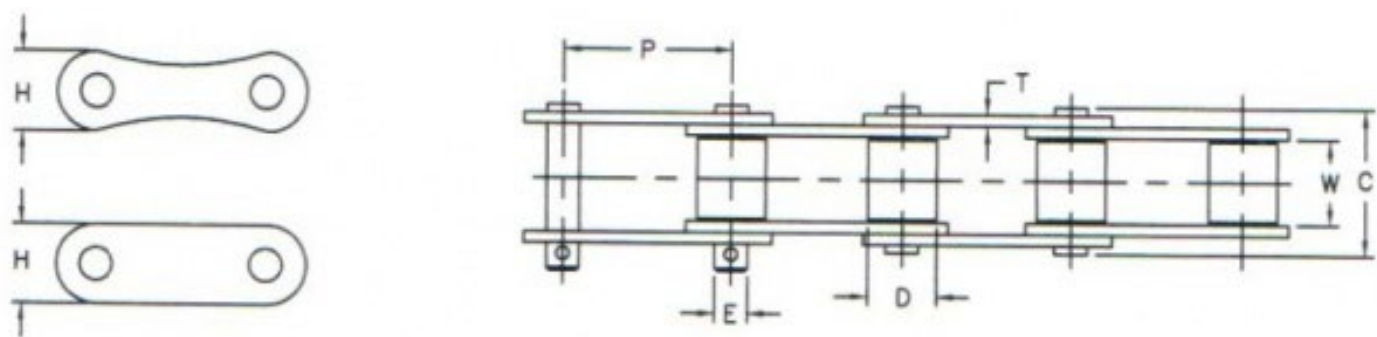


| Size | Part #   |          |                  |              |
|------|----------|----------|------------------|--------------|
|      | 10' roll | 50' roll | Connecting Link* | Offset Link* |
| 35   | RCA035   | -        | RC035C           | RC035O       |
| 40   | RCA040   | RCA04050 | RC040C           | RC040O       |
| 41   | RCA041   | RCA04150 | RC041C           | RC041O       |
| 50   | RCA050   | RCA05050 | RC050C           | RC050O       |
| 50H  | -        | -        | RC050HC          | RC050HO      |
| 60   | RCA060   | RCA06050 | RC060C           | RC060O       |
| 60H  | RCA060H  | -        | RC060HC          | RC060HO      |

| Size   | Part #   |          |                  |              |
|--------|----------|----------|------------------|--------------|
|        | 10' roll | 50' roll | Connecting Link* | Offset Link* |
| 80     | RCA080   | -        | RC080C           | RC080O       |
| 80H    | RCA080H  | -        | RC080HC          | RC080HO      |
| 40     | RCA2040  | -        | RC2040C          | RC2040O      |
| 50     | RCA2050  | -        | RC2050C          | RC2050O      |
| 60     | RCA2060  | -        | RC2060C          | RC2060O      |
| 60-2   | -        | -        | RC602C           | -            |
| C2060H | -        | -        | RCC2060HC        | -            |

# AGRICULTURAL ROLLER CHAIN

## AGRICULTURAL ROLLER CHAIN



### DIMENSIONS

| Chain # | Pitch | Roller |          | Pin   | Plate  |           | Overall Width |          | Average Ultimate Strength |
|---------|-------|--------|----------|-------|--------|-----------|---------------|----------|---------------------------|
|         | P     | Width  | Diameter |       | Height | Thickness | C             |          |                           |
|         |       | W      | D        | E     | H      | T         | Riveted       | Cottered |                           |
| CA550   | 1.630 | 51/64  | 0.656    | 0.281 | 3/4    | 0.105     | 13/8          | 19/16    | 11250                     |
| CA555   | 1.630 | 1/2    | 0.656    | 0.281 | 3/4    | 0.125     | 111/64        | 11/4     | 11250                     |
| CA557   | 1.630 | 51/64  | 0.700    | 0.315 | 29/32  | 0.125     | 115/32        | 119/32   | 16500                     |
| CA620   | 1.654 | 63/64  | 0.696    | 0.281 | 3/4    | 0.125     | 141/64        | 127/32   | 12000                     |



The Agricultural Roller Chain we carry is made in USA by Allied Locke. CA550 has the same pitch as 55 steel detachable chain and CA620 has the same pitch as 62 steel detachable chain.

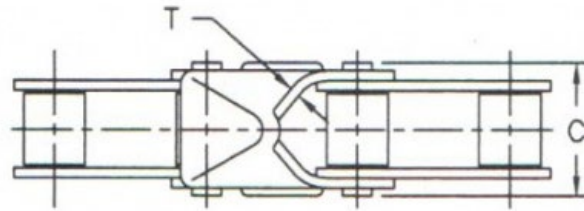
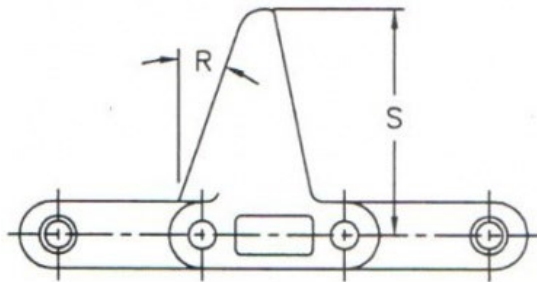
| Size | Part #   |                 |             |
|------|----------|-----------------|-------------|
|      | 10' Roll | Connecting Link | Offset Link |
| 550  | RCACA550 | RCACA550C       | RCACA550O   |
| 620  | RCACA620 | RCACA620C       | RCACA620O   |

## GATHERING CHAINS

| Part #           | Description                                        |
|------------------|----------------------------------------------------|
| RCACA550W/C11E   | CA550 X 150 LINKS W/C11E ATTACHMENTS EVERY 6 LINKS |
| RCACA550W/C12E26 | CA550 X 26 LINKS W/C12E ATTACHMENTS                |
| RCACA550W/C12E31 | CA550 X 31 LINKS W/C12E ATTACHMENTS                |

## GATHERING CHAINS

### FINGER DIMENSIONS



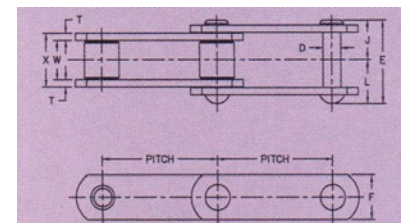
| Finger | Chain # | C       | R   | S       | T     |
|--------|---------|---------|-----|---------|-------|
| C11E   | CA550   | 1-17/64 | 17° | 2-1/2   | 0.105 |
| C13E   | CA550   | 1-17/64 | 15° | 3-5/8   | 0.105 |
| C13E   | CA620   | 1-17/32 | 15° | 3-5/8   | 0.125 |
| C14E   | CA620   | 1-7/32  | 25° | 2-21/32 | 0.125 |

## TRANSFER CHAIN

### DIMENSIONS

| Chain | Pitch | D     | E    | F    | H    | T         | W    |
|-------|-------|-------|------|------|------|-----------|------|
| 81X   | 2.609 | 0.438 | 2    | 1.12 | 0.91 | 0.16      | 1.07 |
| 81XH  | 2.609 | 0.438 | 2.38 | 1.27 | 0.91 | 0.22/0.31 | 1.07 |

| Part #  | Chain # | Description     |
|---------|---------|-----------------|
| RC81X   | 81X     | CHAIN           |
| RC81XC  | 81X     | CONNECTING LINK |
| RC81XHC | 81XH    | CONNECTING LINK |





# COMBINATION CHAIN CONNECTING LINK, COMBINATION CHAIN BLOCK LINK, STEEL DETACHABLE CHAIN

## COMBINATION CHAIN CONNECTING LINK

| Part # | Chain # | Description     |
|--------|---------|-----------------|
| CCC55C | C55     | CONNECTING LINK |



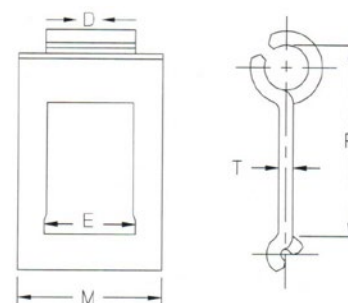
## COMBINATION CHAIN BLOCK LINK

| Part # | Chain # | Description |
|--------|---------|-------------|
| CCC55O | C55     | BLOCK LINK  |



## STEEL DETACHABLE CHAIN

### DIMENSIONS



| Chain # | P     | M      | E     | D     | T     |
|---------|-------|--------|-------|-------|-------|
| 25      | 0.904 | 45/64  | 0.438 | 0.422 | 0.073 |
| 32      | 1.157 | 15/16  | 0.61  | 0.594 | 0.09  |
| 32W     | 1.157 | 11/16  | 0.61  | 0.594 | 0.079 |
| 33      | 1.402 | 11/16  | 0.627 | 0.61  | 0.095 |
| 42      | 1.375 | 17/32  | 0.8   | 0.781 | 0.105 |
| 50H     | 1.375 | 19/32  | 0.798 | 0.781 | 0.125 |
| 51      | 1.133 | 13/32  | 0.72  | 0.703 | 0.105 |
| 52      | 1.508 | 113/32 | 0.76  | 0.84  | 0.125 |
| 55      | 1.63  | 19/32  | 0.813 | 0.796 | 0.125 |
| 62      | 1.654 | 19/16  | 1.002 | 0.984 | 0.148 |
| 62A     | 1.664 | 115/16 | 1.002 | 0.984 | 0.172 |
| 62H     | 1.654 | 17/8   | 1.002 | 0.984 | 0.148 |
| 67H     | 2.313 | 17/8   | 1.11  | 1.093 | 0.185 |
| 67XH    | 2.313 | 17/8   | 1.11  | 1.093 | 0.2   |
| 67W     | 2.313 | 23/8   | 1.11  | 1.093 | 0.148 |
| 70      | 2.013 | 115/16 | 1.11  | 1.093 | 0.172 |
| 72      | 2.025 | 115/16 | 1.11  | 1.093 | 0.172 |
| 72½     | 1.643 | 115/16 | 1.172 | 1.156 | 0.148 |
| S       | 2.906 | 2      | 1.116 | 1.093 | 0.172 |

# STEEL DETACHABLE CHAIN



| Part # | Chain # | Links in 10' | Average Ultimate Strength |
|--------|---------|--------------|---------------------------|
| SDC25  | 25      | 133          | 950 lb                    |
| SDC32  | 32      | 104          | 1,650 lb                  |
| SDC32W | 32W     | 104          | 1,650 lb                  |
| SDC33  | 33      | 86           | 1,650 lb                  |
| SDC42  | 42      | 87           | 2,300 lb                  |
| SDC50H | 50H     | 87           | 2,600 lb                  |
| SDC51  | 51      | 106          | 2,100 lb                  |
| SDC52  | 52      | 80           | 2,700 lb                  |
| SDC55  | 55      | 106          | 2,800 lb                  |
| SDC62  | 62      | 80           | 4,200 lb                  |

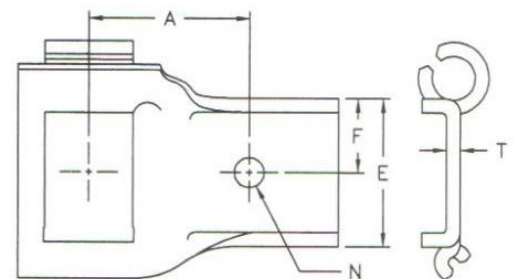
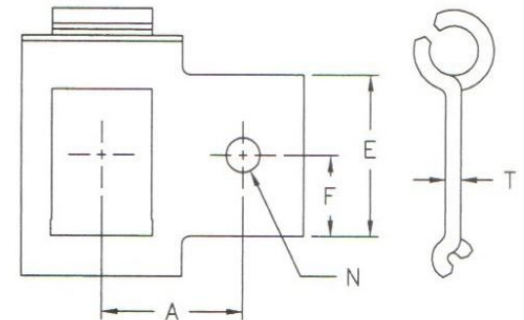
| Part # | Chain # | Links in 10' | Average Ultimate Strength |
|--------|---------|--------------|---------------------------|
| SDC62A | 62A     | 74           | 5,500 lb                  |
| SDC62H | 62H     | 73           | 4,400 lb                  |
| SDC67H | 67H     | 52           | 5,500 lb                  |
| SDC67W | 67W     | 52           | 3,800 lb                  |
| SDC70  | 70      | 60           | 4,800 lb                  |
| SDC72  | 72      | 59           | 4,800 lb                  |
| SDC725 | 72 1/2  | 73           | 4,500 lb                  |
| SDCS   | S       | 41           | 4,800 lb                  |

The Steel Detachable Chain we carry is made in USA by Allied Locke. The chain is sold by 10' rolls and the attachments are sold by the piece.

## ATTACHMENT LINKS

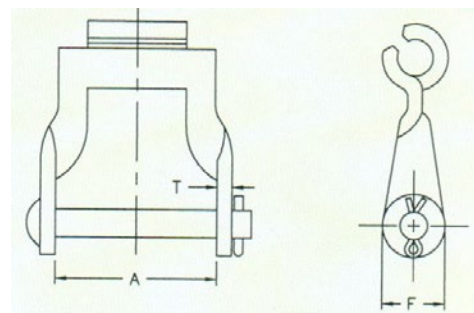
| Part #<br>Left | Part #<br>Right | Chain # | A     | E      | F     | N     | T     |
|----------------|-----------------|---------|-------|--------|-------|-------|-------|
| SDC55A1L       | SDC55A1R        | 55      | 1-1/8 | 1-1/16 | 17/32 | 17/64 | 0.125 |
| SDC62A1L       | SDC62A1R        | 62      | 1-3/8 | 1-3/8  | 11/16 | 17/64 | 0.148 |

| Part #<br>Left | Part #<br>Right | Chain # | A       | E     | F   | N     | T     |
|----------------|-----------------|---------|---------|-------|-----|-------|-------|
| SDC55A2L       | SDC55A2R        | 55      | 1-29/64 | 1-1/4 | 5/8 | 17/64 | 0.125 |
| SDC62A2L       | SDC62A2R        | 62      | 1-9/16  | 1-1/4 | 5/8 | 17/64 | 0.148 |

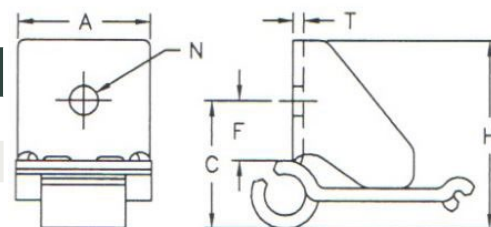


# STEEL DETACHABLE CHAIN

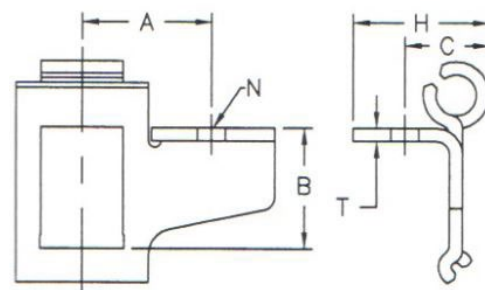
| Part # | Chain # | A       | F   | T     |
|--------|---------|---------|-----|-------|
| SDC55C | 55      | 1-3/8   | 5/8 | 0.125 |
| SDC62C | 62      | 1-39/64 | 5/8 | 0.148 |



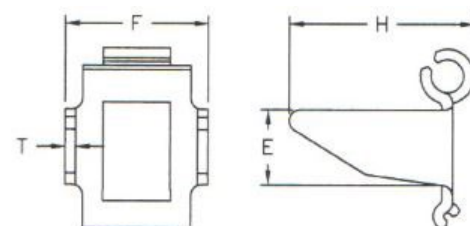
| Part #  | Chain # | A      | C      | F     | H       | N     | S | T     |
|---------|---------|--------|--------|-------|---------|-------|---|-------|
| SDC55C1 | 55      | 1-1/4  | 1-3/16 | 7/16  | 1-3/4   | 17/64 | 1 | 0.105 |
| SDC62C1 | 62      | 1-7/16 | 1-9/32 | 15/32 | 1-25/32 | 17/64 | 1 | 0.105 |



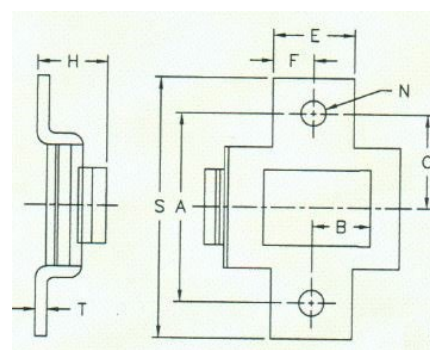
| Part #<br>Left | Part #<br>Right | Chain # | A      | B      | C     | H      | N     | T     |
|----------------|-----------------|---------|--------|--------|-------|--------|-------|-------|
| SDC55G27L      | SDC55G27R       | 55      | 1-1/4  | 1      | 13/16 | 1-5/16 | 17/64 | 0.125 |
| SDC62G27L      | SDC62G27R       | 62      | 1-5/16 | 1-1/16 | 11/16 | 1-1/16 | 17/64 | 0.148 |



| Part #   | Chain # | E   | F       | H      | T     |
|----------|---------|-----|---------|--------|-------|
| SDC55HB4 | 55      | 7/8 | 1-11/16 | 2-3/16 | 0.125 |
| SDC62HB4 | 62      | 7/8 | 1-61/64 | 2-3/16 | 0.148 |

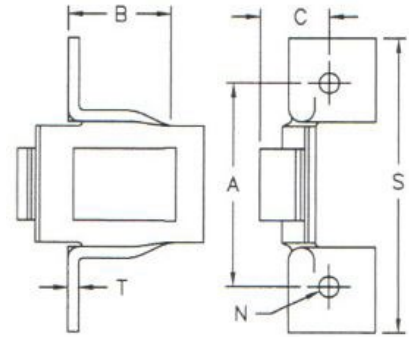


| Part #  | Chain # | A       | B   | E   | H     | N     | S     | T     |
|---------|---------|---------|-----|-----|-------|-------|-------|-------|
| SDC55K1 | 55      | 2       | 5/8 | 7/8 | 3/4   | 17/64 | 2-3/4 | 0.125 |
| SDC62K1 | 62      | 2-15/32 | 5/8 | 7/8 | 37/64 | 17/64 | 3-1/4 | 0.148 |



# STEEL DETACHABLE CHAIN, STEEL DETACHABLE CHAIN ASSEMBLIES

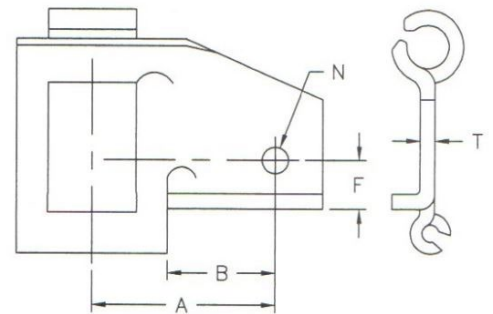
| Part #   | Chain # | A     | B      | C     | N     | S       | T     |
|----------|---------|-------|--------|-------|-------|---------|-------|
| SDC32WSD | 32W     | 2-1/4 | 1-3/16 | 5/8   | 0.203 | 2-13/16 | 0.095 |
| SDC55SD  | 55      | 2-1/4 | 1-1/8  | 25/32 | 15/64 | 3-1/4   | 0.125 |
| SDC62SD  | 62      | 2-1/2 | 1-1/8  | 25/32 | 17/64 | 3-5/8   | 0.148 |
| SDC55SH  | 55      | 2-1/4 | 1-1/8  | 25/32 | 9/32  | 3-1/4   | 0.125 |
| SDC62SH  | 62      | 2-3/4 | 1-1/8  | 25/32 | 17/64 | 3-5/8   | 0.148 |



| Part #    | Chain # |
|-----------|---------|
| SDC62HCP  | 62H     |
| SDC67WC23 | 67W     |



| Part #    | Part #    | Chain # | A      | B      | F    | N     | T     |
|-----------|-----------|---------|--------|--------|------|-------|-------|
| Left      | Right     |         |        |        |      |       |       |
| SDC67HASL | SDC67HASR | 67H     | 2-1/32 | 1-3/32 | 9/16 | 21/64 | 0.185 |



| Part #    | Chain # |
|-----------|---------|
| SDC67TASR | 67T     |



## STEEL DETACHABLE CHAIN ASSEMBLIES

### BALE ELEVATOR CHAIN

| Part #     | Chain # | Roll Length |
|------------|---------|-------------|
| SDC55W/HB4 | 55      | 16'         |
| SDC62W/HB4 | 62      | 16'         |



# STEEL DETACHABLE CHAIN ASSEMBLIES, T-ROD CHAIN, PINTLE CHAIN

## MANURE SPREADER WEBS

| Part #  | Chain # | Application                 |
|---------|---------|-----------------------------|
| SDCW08  | 67H     | New Idea Spreaders #8 & #12 |
| SDCW10  | 67H     | New Idea Spreader #10       |
| SDCW206 | 67H     | New Idea Spreader #206      |
| SDCWNA  | 67H     | Web Without Angles          |
| SDCWS   | S       | International/IHC Spreaders |



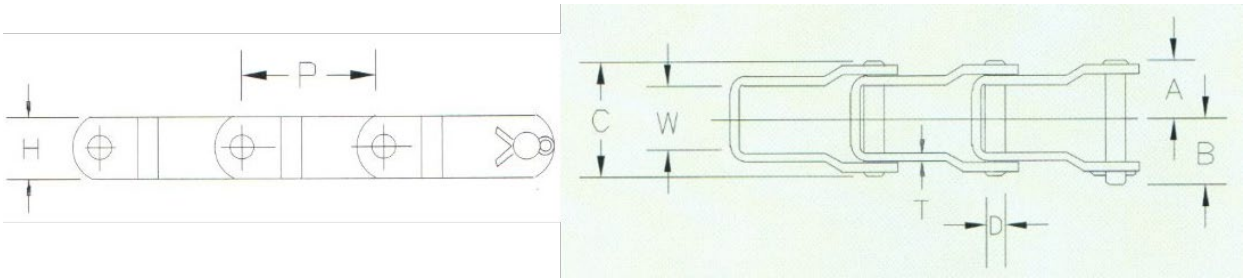
## T-ROD CHAIN

T-Rod Chain is made in USA by Allied Locke. They are sold by the individual link.

| Part #  | Chain #    | Pitch | Inside Width | Thickness | Overall Width | Avg. Ultimate Strength |
|---------|------------|-------|--------------|-----------|---------------|------------------------|
| SDC67TR | AL67 T-ROD | 2.388 | 1.125        | 0.437     | 2.5           | 16,000 lb              |



## PINTLE CHAIN



## DIMENSIONS

| Chain # | Pitch | Overall Width | Inside Width | Pin Diameter | Height | Thickness | Minimum Average Tensile Strength |
|---------|-------|---------------|--------------|--------------|--------|-----------|----------------------------------|
|         | P     | C             | W            | D            | H      | T         |                                  |
| AL662   | 1.664 | 1 5/8         | 29/32        | 0.281        | 0.72   | 0.125     | 8500                             |
| AL667H  | 2.313 | 1 47/64       | 1            | 0.312        | 0.875  | 0.125     | 9500                             |
| AL667X  | 2.25  | 1 61/64       | 11/16        | 0.437        | 0.937  | 0.17      | 15000                            |
| AL667XH | 2.25  | 2 5/16        | 1 5/64       | 0.469        | 1.062  | 0.224     | 26000                            |

## PINTLE CHAIN, ROUND KEYED SHAFT

Pintle Chain is made in USA by Allied Locke. It is sold by 10' rolls.

| Part #  | Chain # |
|---------|---------|
| PC662   | AL662   |
| PC667H  | AL667H  |
| PC667X  | AL667X  |
| PC667XH | AL667XH |



### CONNECTING LINKS

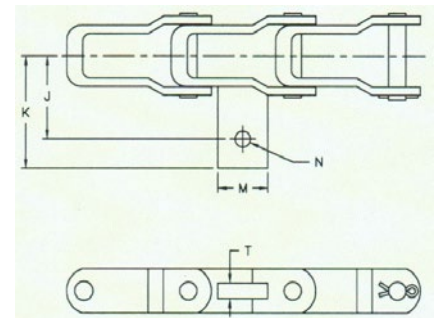
Connecting Links come with two pins.

| Part #   | Chain # |
|----------|---------|
| PC662C   | AL662   |
| PC667HC  | AL667H  |
| PC667XC  | AL667X  |
| PC667XHC | AL667XH |



### AS ATTACHMENT LINKS

| Part #   | Chain # | J      | K       | M     | N      | T   |
|----------|---------|--------|---------|-------|--------|-----|
| PC667HAC | AL667H  | 2 1/32 | 2 19/32 | 1 1/8 | 2 1/64 | 1/4 |



## ROUND KEYED SHAFT

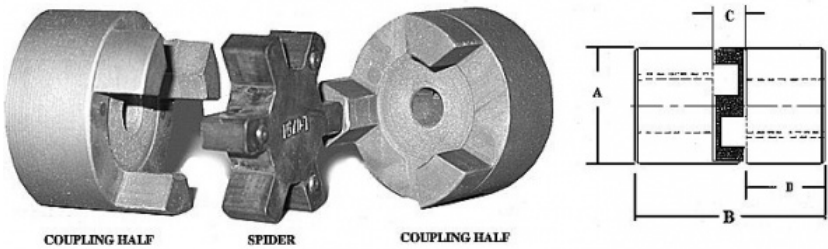
Round Keyed Shaft is cold drawn from 1018 steel. Round keyed shaft is also available in 6' and 12' lengths. It is also available in 1144 stress proof steel and 303 stainless steel in 3', 6', and 12' lengths.

| Part #     | G&G Part # | OD    | Keyway      | Length |
|------------|------------|-------|-------------|--------|
| EQ144-1200 | 144-1200   | 3/4   | 3/16 x 3/32 | 3'     |
| EQ144-1600 | 144-1600   | 1     | 1/4 x 1/8   | 3'     |
| EQ144-2400 | 144-2400   | 1-1/2 | 3/8 x 3/16  | 3'     |



JAW COUPLINGS

JAW COUPLINGS



DIMENSIONS

| Coupling | A     | B     | C     | D     | Set Screw Size | Set Screw Quantity |
|----------|-------|-------|-------|-------|----------------|--------------------|
| L035     | 0.625 | 0.813 | 0.281 | 0.266 | 6-32 X 1/8     | 1                  |
| L050     | 1.063 | 1.721 | 0.47  | 0.625 | 1/4-20 X 3/16  | 1                  |
| L070     | 1.375 | 2     | 0.5   | 0.77  | 1/4-20 X 1/4   | 1                  |
| L075     | 1.75  | 2.126 | 0.48  | 0.82  | 1/4-20 X 3/8   | 1                  |
| L090     | 2.125 | 2.146 | 0.49  | 0.841 | 1/4-20 X 3/8   | 1                  |
| L095     | 2.125 | 2.52  | 0.455 | 1.02  | 5/16-18 X 3/8  | 2                  |
| L099     | 2.531 | 2.835 | 0.65  | 1.071 | 5/16-18 X 3/8  | 2                  |
| L100     | 2.531 | 3.459 | 0.66  | 1.368 | 5/16-18 X 3/8  | 2                  |
| L110     | 3.313 | 4.252 | 0.843 | 1.706 | 3/8-16 X 5/16  | 2                  |
| L150     | 3.75  | 4.5   | 0.94  | 1.771 | 3/8-16 X 1/2   | 2                  |
| L190     | 4.5   | 5.25  | 0.875 | 2.134 | 1/2-13 X 1/2   | 2                  |
| L225     | 5     | 6.142 | 0.942 | 2.5   | 1/2-13 X 1/2   | 2                  |

KEYWAY DIMENSIONS

| Bore Size                                       | Keyway      |
|-------------------------------------------------|-------------|
| 1/8, 3/16, 1/4, 5/16, 3/8, 7/16                 | NONE        |
| 1/2, 9/16                                       | 1/8 X 1/16  |
| 5/8, 11/16, 3/4, 13/16, 7/8                     | 3/16 X 3/32 |
| 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4          | 1/4 X 1/8   |
| 1 5/16, 1 3/8                                   | 5/16 X 5/32 |
| 1 7/16, 1 1/2, 1 9/16, 1 5/8, 1 11/16, 1 3/4    | 3/8 X 3/16  |
| 1 7/8, 1 15/16, 2, 2 1/16, 2 1/8, 2 3/16, 2 1/4 | 1/2 X 1/4   |
| 2 3/8, 2 7/16, 2 1/2, 2 5/8                     | 5/8 X 5/16  |

POWER TRANSMISSION SUPPLIES

## HORSEPOWER CAPACITIES FOR BUNA-N INSERTS

| Coupling Number | Rated Torque Lbs. In. | Horsepower Capacity at Varying RPM |       |       |      |       | Max Bore |
|-----------------|-----------------------|------------------------------------|-------|-------|------|-------|----------|
|                 |                       | 100                                | 300   | 1200  | 1800 | 3600  |          |
| L035            | 3.16                  | 0.0056                             | 0.017 | 0.067 | 0.1  | 0.2   | 5/16     |
| L050            | 28.1                  | 0.04                               | 0.12  | 0.48  | 0.72 | 1.44  | 5/8      |
| L070            | 37.5                  | 0.06                               | 0.18  | 0.72  | 1.08 | 2.16  | 25/32    |
| L075            | 73                    | 0.12                               | 0.36  | 1.44  | 2.16 | 4.32  | 11/32    |
| L090            | 126                   | 0.2                                | 0.6   | 2.4   | 3.6  | 7.2   | 11/8     |
| L095            | 169                   | 0.28                               | 0.84  | 3.36  | 5.04 | 10.08 | 11/8     |
| L099            | 260                   | 0.42                               | 1.26  | 5.04  | 7.56 | 15.1  | 1 13/32  |
| L100            | 370                   | 0.6                                | 1.8   | 7.2   | 10.8 | 21.6  | 1 13/32  |
| L110            | 680                   | 1.1                                | 3.3   | 13.2  | 19.8 | 39.6  | 1 7/8    |
| L150            | 1080                  | 1.7                                | 5.1   | 20.4  | 30.6 | 61.2  | 1 7/8    |
| L190            | 1350                  | 2.2                                | 6.6   | 26.4  | 39.6 | 79.2  | 2 9/32   |
| L225            | 2000                  | 3.3                                | 9.9   | 39.6  | 59.4 | 118.8 | 2 3/8    |

Jaw Coupling halves and spiders are sold separately. To order a complete jaw coupling, order two halves and one spider.



| Part #    | Size       | Part #    | Size       |
|-----------|------------|-----------|------------|
| EQML07505 | L075-5/16  | EQML09010 | L090-5/8   |
| EQML07506 | L075-3/8   | EQML09012 | L090-3/4   |
| EQML07507 | L075-7/16  | EQML09014 | L090-7/8   |
| EQML07508 | L075-1/2   | EQML09016 | L090-1     |
| EQML07510 | L075-5/8   | EQML09018 | L090-1-1/8 |
| EQML07511 | L075-11/16 | EQML09508 | L095-1/2   |
| EQML07512 | L075-3/4   | EQML09510 | L095-5/8   |
| EQML07514 | L075-7/8   | EQML09512 | L095-3/4   |
| EQML09007 | L090-7/16  | EQML09514 | L095-7/8   |
| EQML09008 | L090-1/2   | EQML09516 | L095-1     |
| EQML09009 | L090-9/16  | EQML09518 | L095-1-1/8 |



# JAW COUPLINGS

## JAW COUPLINGS

| Part #    | Size       | Part #    | Size        |
|-----------|------------|-----------|-------------|
| EQML09908 | L099-1/2   | EQML10016 | L100-1      |
| EQML09909 | L099-9/16  | EQML10018 | L100-1-1/8  |
| EQML09910 | L099-5/8   | EQML10020 | L100-1-1/4  |
| EQML09912 | L099-3/4   | EQML10022 | L100-1-3/8  |
| EQML09914 | L099-7/8   | EQML11012 | L110-3/4    |
| EQML09916 | L099-1     | EQML11014 | L110-7/8    |
| EQML09918 | L099-1-1/8 | EQML11016 | L110-1      |
| EQML10008 | L100-1/2   | EQML11018 | L110-1-1/8  |
| EQML10010 | L100-5/8   | EQML11020 | L110-1-1/4  |
| EQML10011 | L100-11/16 | EQML11022 | L110-1-3/8  |
| EQML10012 | L100-3/4   | EQML11023 | L110-1-7/16 |
| EQML10013 | L100-13/16 | EQML11024 | L110-1-1/2  |
| EQML10014 | L100-7/8   | EQML11026 | L110-1-5/8  |

## BUNA-N SPIDERS

Buna-N spiders are black in color and are the most commonly used spider. Hytrel spiders are a much tougher spider and are white in color.

| Part #   | Size      |
|----------|-----------|
| EQML075N | L075N     |
| EQML090N | L090/095N |
| EQML099N | L099/100N |
| EQML110N | L110N     |



## HYTREL SPIDERS

| Part #   | Size      |
|----------|-----------|
| EQML075H | L075H     |
| EQML095H | L090/095H |
| EQML100H | L099/100H |



## DOUBLE ROLLER CHAIN COUPLER SPROCKETS

## DIMENSIONS

| Coupling | Coupling Diameter | Hub Diameter | LTB     | OAL     |
|----------|-------------------|--------------|---------|---------|
| 4012     | 2 13/32           | 1 13/32      | 1 1/8   | 2 17/32 |
| 4016     | 3 1/32            | 1 31/32      | 1 1/8   | 2 17/32 |
| 5016     | 3 25/32           | 2 1/2        | 1 7/16  | 3 1/4   |
| 5018     | 4 3/16            | 2 31/32      | 1 11/16 | 3 3/4   |
| 6018     | 5                 | 3 1/2        | 1 7/8   | 4 3/16  |
| 6020     | 5 1/2             | 4 7/8        | 2       | 5 21/64 |
| 8018     | 6 21/32           | 4 9/16       | 2 3/8   | 5 5/16  |
| 6020     | 7 19/64           | 5 3/8        | 2 5/8   | 5 13/16 |

## STANDARD KEYWAY DIMENSIONS

| Shaft Dia.      | Key Seat W X D |
|-----------------|----------------|
| 1/2-9/16        | 1/8 X 1/16     |
| 5/8-7/8         | 3/16 X 3/32    |
| 15/16 - 1-1/4   | 1/4 X 1/8      |
| 1-5/16 - 1-3/8  | 5/16 X 5/32    |
| 1-7/16 - 1-3/4  | 3/8 X 3/16     |
| 1-13/16 - 2-1/4 | 1/2 X 1/4      |
| 2-5/16 - 2-1/2  | 5/8 X 5/16     |

A complete Double Roller Chain Coupler Sprocket consists of two coupler halves and one coupler chain. Coupler halves are furnished with keyway and set screw. Halves and chains need to be ordered separately. The sprocket number gives the chain size, the number of teeth, and the bore size (5016 X 1 1/8 is a coupler sprocket for 50 chain, with 16 teeth, and a 1 1/8 bore).

| Part #      | G & G Part # | Sprocket #   |
|-------------|--------------|--------------|
| EQ095016205 | 095016205    | 5016 x 1-1/4 |
| EQ095016225 | 095016225    | 5016 x 1-3/8 |
| EQ095016245 | 095016245    | 5016 x 1-1/2 |



## COUPLER CHAIN

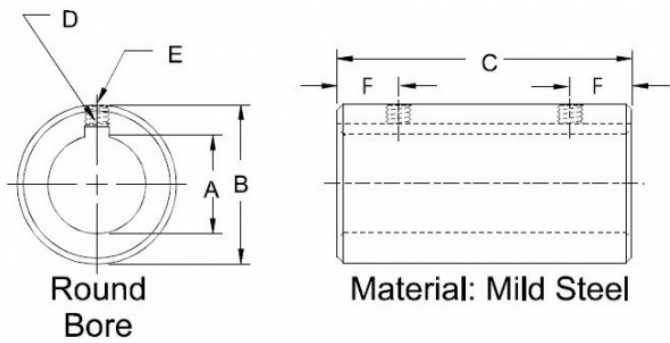
| Part #      | G & G Part # | Chain Size | No. Teeth |
|-------------|--------------|------------|-----------|
| EQ094016CH5 | 094016CH5    | 40         | 16        |
| EQ095016CH5 | 095016CH5    | 50         | 16        |
| EQ095018CH5 | 095018CH5    | 50         | 18        |



# ROUND BORE SHAFT COUPLERS

## ROUND BORE SHAFT COUPLERS

Round Bore Shaft Couplers have a key way and two set screws, one at each end of the coupler.



## KEY WAY & SET SCREW DIMENSIONS

| Bore Sizes                  | Key Size | Set Screw Size |
|-----------------------------|----------|----------------|
| 1/2                         | 1/8      | 1/4-20         |
| 5/8, 3/4, 7/8               | 3/16     | 1/4-20         |
| 1, 1-1/8, 1-3/16, 1-1/4     | 1/4      | 5/16-18        |
| 1-1/4*, 1-3/8               | 5/16     | 3/8-16         |
| 1-7/16, 1-1/2, 1-5/8, 1-3/4 | 3/8      | 3/8-16         |
| 1-15/16, 2                  | 1/2      | 1/2-13         |

\*Key Way & Set Screw Dimensions

## ROUND BORE

| Part #      | Bore  | OD     | Length | F   |
|-------------|-------|--------|--------|-----|
| EQ127-10005 | 5/8   | 1-1/2  | 2-1/2  | 5/8 |
| EQ127-12005 | 3/4   | 1-5/8  | 3      | 5/8 |
| EQ127-14005 | 7/8   | 1-3/4  | 3      | 3/4 |
| EQ127-16005 | 1     | 1-5/8  | 3      | 5/8 |
| EQ127-18005 | 1-1/8 | 2      | 4-1/2  | 7/8 |
| EQ127-20005 | 1-1/4 | 2-1/8  | 4-1/2  | 1   |
| EQ127-22005 | 1-3/8 | 2-5/16 | 4-1/2  | 1   |
| EQ127-24005 | 1-1/2 | 2-1/2  | 4-1/2  | 1   |



# WELDAHUB® COUPLER HUBS, PUMP ADAPTERS, REPAIR KITS (CROSS BEARINGS)

## WELDAHUB® COUPLER HUBS

Weldahub® Coupler Hubs are designed to make a shaft coupler out of two weldahubs for two shafts of the same or different styles and sizes .

| Part #     | Hub Series | ID    | OD    | Width |
|------------|------------|-------|-------|-------|
| EQ012-3226 | W          | 1-5/8 | 2     | 1     |
| EQ012-4032 | X & XX     | 2     | 2-1/2 | 1     |



## PUMP ADAPTERS

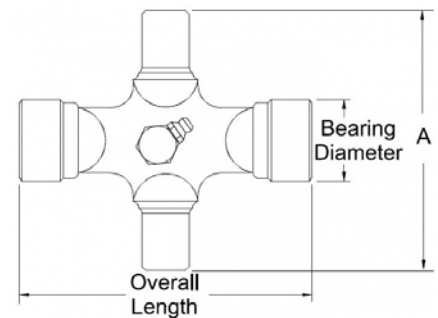
### SPLINED MALE TO ROUND BORE FEMALE

| Part #     | G & G Part # | Spline Size | Round Bore | Length |
|------------|--------------|-------------|------------|--------|
| EQ113-1600 | 113-1600     | 1-3/8 x 6   | 1          | 5-3/4  |
| EQ113-1800 | 113-1800     | 1-3/8 x 6   | 1-1/8      | 5-7/8  |
| EQ113-2000 | 113-2000     | 1-3/8 x 6   | 1-1/4      | 5-7/8  |
| EQ113-2200 | 113-2200     | 1-3/8 x 6   | 1-3/8      | 5-3/4  |
| EQ113-2400 | 113-2400     | 1-3/8 x 6   | 1-1/2      | 5-7/8  |



## REPAIR KITS (CROSS BEARINGS)

| Part #     | PTO Series | OAL    | Bearing Diameter | A     |
|------------|------------|--------|------------------|-------|
| EQ302-0400 | 4P         | 2-1/8  | 7/8              | 1.812 |
| EQ302-0600 | 6N         | 2-5/16 | 31/32            | 1.947 |
| EQ302-0675 | 0675       | 2-5/16 | 15/16            | 2.068 |
| EQ302-1200 | 12N        | 2-9/16 | 1-1/16           | 2.250 |
| EQ302-1400 | 14N        | 2-5/8  | 1-1/8            | 2.400 |
| EQ302-1875 | 1800       | 3-3/16 | 1                | 2.852 |
| EQ302-3500 | 35N        | 3-7/32 | 1-1/4            | 2.934 |
| EQ302-4400 | 44R        | 4      | 1-5/16           | 3.748 |
| EQ302-5500 | 55N        | 4-5/16 | 1-17/32          | 4.022 |



# KEY STOCK

## KEY STOCK

Key Stock is manufactured from 1018 steel. Tolerances for undersized key stock is +0/-.003 for sizes 3/4 and smaller and +0/-.004 for sizes larger than 3/4.



### SQUARE • UNDERSIZED • 12" LENGTH

| Part #     | Size |
|------------|------|
| EQ407-0200 | 1/8  |
| EQ407-0250 | 5/32 |
| EQ407-0300 | 3/16 |
| EQ407-0400 | 1/4  |
| EQ407-0500 | 5/16 |
| EQ407-0600 | 3/8  |
| EQ407-0700 | 7/16 |

| Part #     | Size  |
|------------|-------|
| EQ407-0800 | 1/2   |
| EQ407-0900 | 9/16  |
| EQ407-1000 | 5/8   |
| EQ407-1200 | 3/4   |
| EQ407-1400 | 7/8   |
| EQ407-1600 | 1     |
| EQ407-1800 | 1-1/8 |

### SQUARE • UNDERSIZED • CUT TO LENGTH



| Part #       | Size         |
|--------------|--------------|
| EQ407-020008 | 1/8 x 1      |
| EQ407-030006 | 3/16 x 3/4   |
| EQ407-030008 | 3/16 x 1     |
| EQ407-030010 | 3/16 x 1-1/4 |
| EQ407-030012 | 3/16 x 1-1/2 |
| EQ407-030016 | 3/16 x 2     |
| EQ407-040004 | 1/4 x 1/2    |
| EQ407-040006 | 1/4 x 3/4    |
| EQ407-040008 | 1/4 x 1      |
| EQ407-040010 | 1/4 x 1-1/4  |
| EQ407-040012 | 1/4 x 1-1/2  |
| EQ407-040014 | 1/4 x 1-3/4  |
| EQ407-040016 | 1/4 x 2      |

| Part #       | Size         |
|--------------|--------------|
| EQ407-040020 | 1/4 x 2-1/2  |
| EQ407-040024 | 1/4 x 3      |
| EQ407-050008 | 5/16 x 1     |
| EQ407-050010 | 5/16 x 1-1/4 |
| EQ407-050012 | 5/16 x 1-1/2 |
| EQ407-050014 | 5/16 x 1-3/4 |
| EQ407-050016 | 5/16 x 2     |
| EQ407-060008 | 3/8 x 1      |
| EQ407-060010 | 3/8 x 1-1/4  |
| EQ407-060012 | 3/8 x 1-1/2  |
| EQ407-060014 | 3/8 x 1-3/4  |
| EQ407-060016 | 3/8 x 2      |
| EQ407-060020 | 3/8 x 2-1/2  |

POWER TRANSMISSION SUPPLIES

RECTANGULAR ▪ UNDERSIZED ▪ 12" LENGTH

| Part #     | Size        |
|------------|-------------|
| EQ407-0204 | 1/8 x 1/4   |
| EQ407-0304 | 3/16 x 1/4  |
| EQ407-0305 | 3/16 x 5/16 |
| EQ407-0405 | 1/4 x 5/16  |
| EQ407-0406 | 1/4 x 3/8   |
| EQ407-0506 | 5/16 x 3/8  |
| EQ407-0607 | 3/8 x 7/16  |
| EQ407-0608 | 3/8 x 1/2   |
| EQ407-0810 | 1/2 x 5/8   |
| EQ407-0812 | 1/2 x 3/4   |



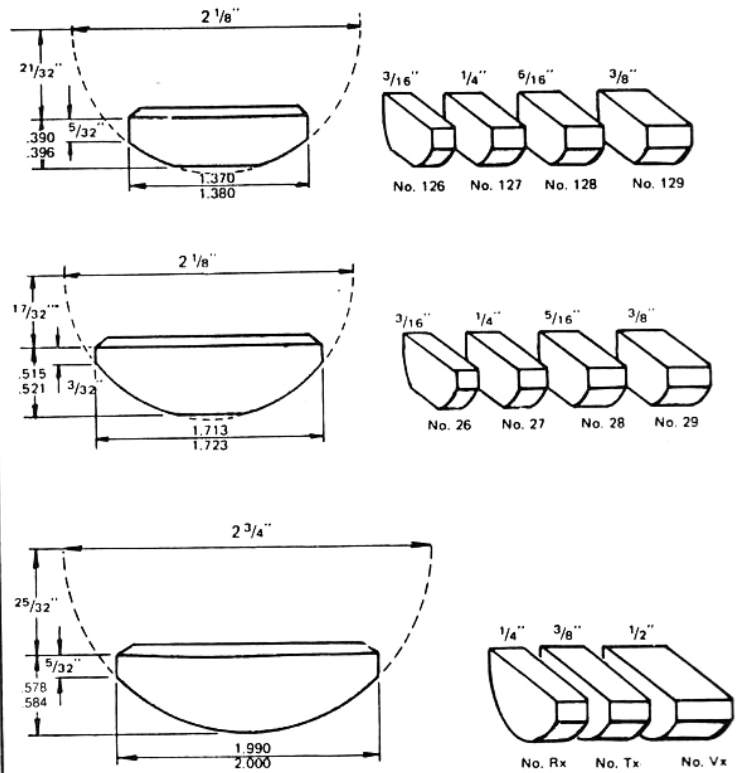
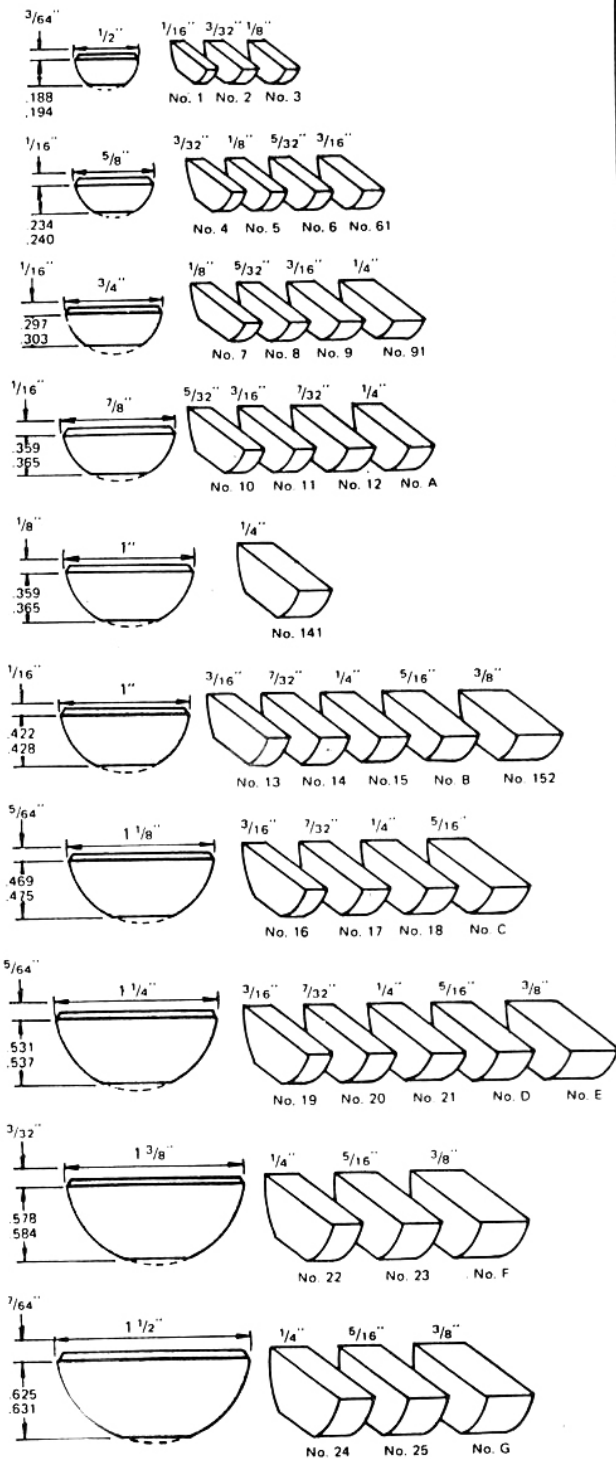
STEP ▪ 12" LENGTH

| Part #     | Size       |
|------------|------------|
| EQ407-0230 | 1/8 x 3/16 |
| EQ407-0340 | 3/16 x 1/4 |
| EQ407-0460 | 1/4 x 3/8  |
| EQ407-0540 | 5/16 x 1/4 |
| EQ407-0560 | 5/16 x 3/8 |
| EQ407-0680 | 3/8 x 1/2  |
| EQ407-1080 | 1/2 x 5/8  |



# WOODRUFF KEYS (HALF MOON KEYS)

## WOODRUFF KEYS (HALF MOON KEYS)



## WOODRUFF KEYS (HALF MOON KEYS)

Woodruff Keys are manufactured from 1035 steel.



| Part #  | Key # | Size         | Discount Quantity |
|---------|-------|--------------|-------------------|
| FWK0802 | #201  | 1/16 x 1/4   | 100               |
| FWK1003 | #207  | 3/32 x 5/16  | 100               |
| FWK1202 | #211  | 1/16 x 3/8   | 100               |
| FWK1203 | #212  | 3/32 x 3/8   | 100               |
| FWK1204 | #213  | 1/8 x 3/8    | 100               |
| FWK1602 | #1    | 1/16 x 1/2   | 100               |
| FWK1603 | #2    | 3/32 x 1/2   | 100               |
| FWK1604 | #3    | 1/8 x 1/2    | 100               |
| FWK2003 | #4    | 3/32 x 5/8   | 100               |
| FWK2004 | #5    | 1/8 x 5/8    | 100               |
| FWK2005 | #6    | 5/32 x 5/8   | 100               |
| FWK2006 | #61   | 3/16 x 5/8   | 100               |
| FWK2404 | #7    | 1/8 x 3/4    | 100               |
| FWK2405 | #8    | 5/32 x 3/4   | 100               |
| FWK2406 | #9    | 3/16 x 3/4   | 100               |
| FWK2408 | #91   | 1/4 x 3/4    | 100               |
| FWK2805 | #10   | 5/32 x 7/8   | 100               |
| FWK2806 | #11   | 3/16 x 7/8   | 100               |
| FWK2807 | #12   | 7/32 x 7/8   | 100               |
| FWK2808 | #A    | 1/4 x 7/8    | 100               |
| FWK3108 | #141  | 1/4 X 31/32  | 100               |
| FWK3206 | #13   | 3/16 x 1     | 100               |
| FWK3207 | #14   | 7/32 x 1     | 100               |
| FWK3208 | #15   | 1/4 x 1      | 100               |
| FWK3210 | #B    | 5/16 x 1     | 100               |
| FWK3212 | #152  | 3/8 x 1      | 100               |
| FWK3606 | #16   | 3/16 X 1-1/8 | 100               |

| Part #   | Key # | Size         | Discount Quantity |
|----------|-------|--------------|-------------------|
| FWK3607  | #17   | 7/32 X 1-1/8 | 100               |
| FWK3608  | #18   | 1/4 x 1-1/8  | 100               |
| FWK3610  | #C    | 5/16 x 1-1/8 | 100               |
| FWK4006  | #19   | 3/16 x 1-1/4 | 100               |
| FWK4007  | #20   | 7/32 x 1-1/4 | 100               |
| FWK4008  | #21   | 1/4 x 1-1/4  | 100               |
| FWK4010  | #D    | 5/16 x 1-1/4 | 100               |
| FWK4012  | #E    | 3/8 x 1-1/4  | 100               |
| FWK4408  | #22   | 1/4 x 1-3/8  | 100               |
| FWK4410  | #23   | 5/16 x 1-3/8 | 100               |
| FWK4412  | #F    | 3/8 x 1-3/8  | 100               |
| FWK4808  | #24   | 1/4 x 1-1/2  | 100               |
| FWK4810  | #25   | 5/16 x 1-1/2 | 100               |
| FWK4812  | #G    | 3/8 x 1-1/2  | 100               |
| FWK6806A | #126  | 3/16 X 2-1/8 | 100               |
| FWK6806B | #26   | 3/16 X 2-1/8 | 100               |
| FWK6808A | #127  | 1/4 x 2-1/8  | 100               |
| FWK6808B | #27   | 1/4 x 2-1/8  | 100               |
| FWK6810A | #128  | 5/16 X 2-1/8 | 100               |
| FWK6810B | #28   | 5/16 X 2-1/8 | 100               |
| FWK6812A | #129  | 3/8 x 2-1/8  | 100               |
| FWK6812B | #29   | 3/8 x 2-1/8  | 100               |
| FWK8808  | #RX   | 1/4 x 2-3/4  | 100               |
| FWK8810  | #Sx   | 5/16 x 2-3/4 | 100               |
| FWK8812  | #Tx   | 3/8 x 2-3/4  | 100               |
| FWK8816  | #VX   | 1/2 x 2-3/4  | 100               |



SET COLLARS

SET COLLARS

SOLID • ZINC PLATED

Solid Set Collars use a single set screw to grip the shaft. They do not work well where the shaft is harder than the set collar or where marks on the shaft are not desirable.



| Part #   | Size      | Discount Quantity | Part # | Size    | Discount Quantity |
|----------|-----------|-------------------|--------|---------|-------------------|
| EQSC04   | 1/4       | 100               | EQSC22 | 1-3/8   | 100               |
| EQSC05   | 5/16      | 100               | EQSC23 | 1-7/16  | 100               |
| EQSC06   | 3/8       | 100               | EQSC24 | 1-1/2   | 100               |
| EQSC07   | 7/16      | 100               | EQSC25 | 1-9/16  | 100               |
| EQSC08   | 1/2       | 100               | EQSC26 | 1-5/8   | 100               |
| EQSC09   | 9/16      | 100               | EQSC27 | 1-11/16 | 100               |
| EQSC10   | 5/8       | 100               | EQSC28 | 1-3/4   | 100               |
| EQSC11   | 11/16     | 100               | EQSC29 | 1-13/16 | 100               |
| EQSC12   | 3/4       | 100               | EQSC30 | 1-7/8   | 100               |
| EQSC13   | 13/16     | 100               | EQSC31 | 1-15/16 | 100               |
| EQSC14   | 7/8       | 100               | EQSC32 | 2       | 100               |
| EQSC15   | 15/16     | 100               | EQSC34 | 2-1/8   | 100               |
| EQSC16   | 1         | 100               | EQSC35 | 2-3/16  | 100               |
| EQSC1624 | 1 x 1-1/2 | 100               | EQSC36 | 2-1/4   | 100               |
| EQSC17   | 1-1/16    | 100               | EQSC39 | 2-7/16  | 100               |
| EQSC18   | 1-1/8     | 100               | EQSC40 | 2-1/2   | 100               |
| EQSC19   | 1-3/16    | 100               | EQSC44 | 2-3/4   | 100               |
| EQSC20   | 1-1/4     | 100               | EQSC47 | 2-15/16 | 100               |
| EQSC21   | 1-5/16    | 100               |        |         |                   |

SOLID • PLAIN

| Part #  | Size |
|---------|------|
| EQSCP16 | 1    |



POWER TRANSMISSION SUPPLIES

## SOLID ▪ STAINLESS STEEL

| Part #   | Size | Discount Quantity |
|----------|------|-------------------|
| EQSSSC06 | 3/8  | 100               |
| EQSSSC08 | 1/2  | 100               |
| EQSSSC16 | 1    | 100               |

## SINGLE SPLIT ▪ BLACK OXIDE

Single and Double Split Set Collars provide a lock on the shaft through friction only. They are generally considered to give a better grip on the shaft than a solid shaft collar. They can be used on hard or soft shafts as well as on tubing. The double split set collars have the additional advantage of fitting easily into hard to-get-to spots.

| Part #  | Size   |
|---------|--------|
| EQSCS17 | 1-1/16 |
| EQSCS19 | 1-3/16 |



## DOUBLE SPLIT ▪ BLACK OXIDE

| Part #  | Size  | Discount Quantity |
|---------|-------|-------------------|
| EQSCD08 | 1/2   | 100               |
| EQSCD09 | 9/16  | 100               |
| EQSCD10 | 5/8   | 100               |
| EQSCD12 | 3/4   | 100               |
| EQSCD14 | 7/8   | 100               |
| EQSCD16 | 1     | 100               |
| EQSCD18 | 1-1/8 | 100               |

| Part #  | Size   | Discount Quantity |
|---------|--------|-------------------|
| EQSCD20 | 1-1/4  | 100               |
| EQSCD22 | 1-3/8  | 100               |
| EQSCD24 | 1-1/2  | 100               |
| EQSCD26 | 1-5/8  | 100               |
| EQSCD30 | 1-7/8  | 100               |
| EQSCD32 | 2      | 100               |
| EQSCD39 | 2-7/16 | 100               |

## DOUBLE SPLIT ▪ STAINLESS STEEL

| Part #    | Size  |
|-----------|-------|
| EQSSSCD26 | 1-5/8 |



## GREASE FITTINGS

### GREASE FITTINGS

#### NATIONAL PIPE THREAD • SILVER ZINC OR YELLOW ZINC

Length, if given, is overall length.

| Part #   | Size          | Angle    | Package Qty |
|----------|---------------|----------|-------------|
| EQZ245   | 1/8-27        | 45 Deg   | 50          |
| EQZ265   | 1/8-27        | 65 Deg   | 50          |
| EQZ290   | 1/8-27        | 90 Deg   | 50          |
| EQZ2ST   | 1/8-27 x 0.62 | Straight | 100         |
| EQZ2ST20 | 1/8-27 x 1.25 | Straight | 25          |
| EQZ2ST28 | 1/8-27 x 1.75 | Straight | 25          |
| EQZ2ST42 | 1/8-27 x 2.63 | Straight | 25          |
| EQZ4PT65 | 1/4-18        | 65 Deg   | 25          |
| EQZ4PTST | 1/4-18 x 0.8  | Straight | 25          |



#### SAE TAPERED FINE THREAD • SILVER ZINC OR YELLOW ZINC

| Part #   | Size          | Angle    | Package Qty |
|----------|---------------|----------|-------------|
| EQZ445   | 1/4-28        | 45 Deg   | 50          |
| EQZ465   | 1/4-28        | 65 Deg   | 50          |
| EQZ490   | 1/4-28        | 90 Deg   | 50          |
| EQZ4STS  | 1/4-28 x 0.49 | Straight | 100         |
| EQZ4ST   | 1/4-28 x 0.54 | Straight | 100         |
| EQZ4ST11 | 1/4-28 x 0.67 | Straight | 50          |
| EQZ4ST15 | 1/4-28 x 0.93 | Straight | 50          |
| EQZ4ST18 | 1/4-28 x 1.13 | Straight | 50          |



#### SAE PARALLEL FINE THREAD • SILVER ZINC OR YELLOW ZINC

| Part #    | Size           | Angle    | Package Qty |
|-----------|----------------|----------|-------------|
| EQZ5UNF45 | 5/16-24        | 45 Deg   | 25          |
| EQZ5UNF90 | 5/16-24        | 90 Deg   | 25          |
| EQZ5UNFST | 5/16-24 x 0.58 | Straight | 25          |
| EQZ6UNFST | 3/8-24         | Straight | 25          |



## METRIC ▪ SILVER ZINC OR YELLOW ZINC

| Part #    | Size             | Angle    | Package Qty |
|-----------|------------------|----------|-------------|
| EQMZ645   | M6-1.0           | 45 Deg   | 25          |
| EQMZ690   | M6-1.0           | 90 Deg   | 25          |
| EQMZ6ST   | M6-1.0 x 13.5mm  | Straight | 25          |
| EQMZ845   | M8-1.25          | 45 Deg   | 25          |
| EQMZ890   | M8-1.25          | 90 Deg   | 25          |
| EQMZ8ST   | M8-1.25 x 14.9mm | Straight | 25          |
| EQMZF1045 | M10-1.0          | 45 Deg   | 25          |
| EQMZF1090 | M10-1.0          | 90 Deg   | 25          |
| EQMZF10ST | M10-1.0 x 15.2mm | Straight | 25          |
| EQMZF8ST  | M8-1.0 x 14.7mm  | Straight | 25          |



## FEMALE NATIONAL PIPE THREAD ▪ SILVER ZINC OR YELLOW ZINC

| Part #  | Size          | Angle    | Package Qty |
|---------|---------------|----------|-------------|
| EQZ2STF | 1/8-27 x 1.06 | Straight | 25          |



## BRITISH PIPE THREAD ▪ SILVER ZINC OR YELLOW ZINC

| Part #  | Size         | Angle    | Package Qty |
|---------|--------------|----------|-------------|
| EQZ245B | 1/8-28       | 45 Deg   | 25          |
| EQZ290B | 1/8-28       | 90 Deg   | 25          |
| EQZ2STB | 1/8-28 x 0.6 | Straight | 25          |



## NATIONAL PIPE THREAD OR SAE ▪ STAINLESS STEEL

| Part #     | Size        | Angle    | Package Qty |
|------------|-------------|----------|-------------|
| EQSSZ2ST   | 1/8-27      | Straight | 50          |
| EQSSZ2ST12 | 1/8-27X0.75 | Straight | 25          |
| EQSSZ4ST   | 1/4-28      | Straight | 50          |



DRIVE ZERKS ▪ SILVER ZINC OR YELLOW ZINC, GREASE FITTING THREAD CHECKER, POWER TRANSMISSION SUPPLIES ASSORTMENTS

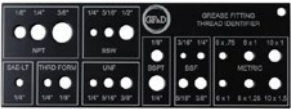
DRIVE ZERKS ▪ SILVER ZINC OR YELLOW ZINC

| Part # | Size        | Angle    | Package Qty |
|--------|-------------|----------|-------------|
| EQZD3  | 3/16 x 0.5  | Straight | 100         |
| EQZD4  | 1/4 x 0.5   | Straight | 100         |
| EQZD5  | 5/16 x 0.58 | Straight | 100         |



GREASE FITTING THREAD CHECKER

| Part # | Description                   |
|--------|-------------------------------|
| EQZTC  | Grease Fitting Thread Checker |



POWER TRANSMISSION SUPPLIES ASSORTMENTS

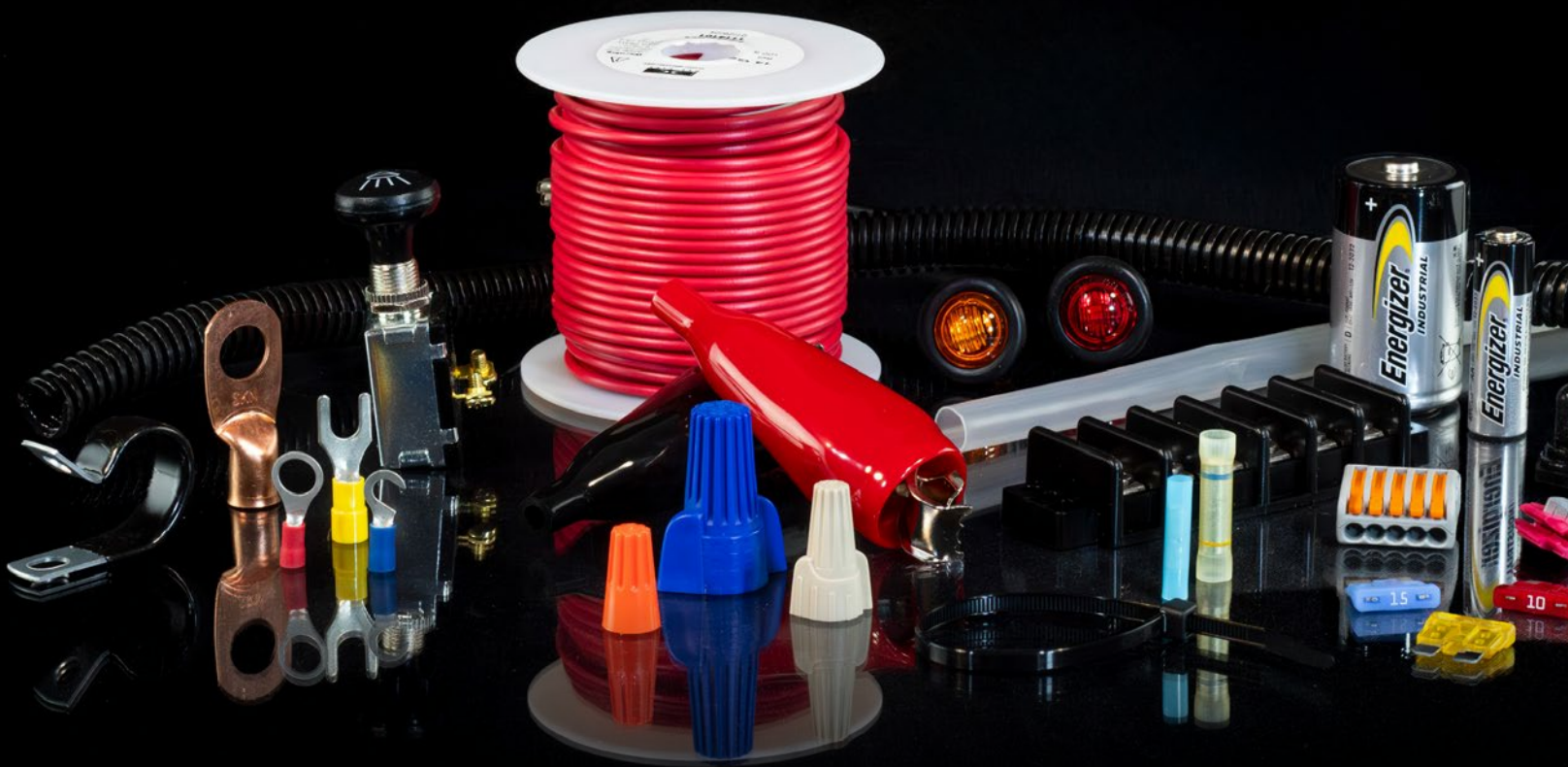
| Part #    | Description                                                        |
|-----------|--------------------------------------------------------------------|
| EQZA108   | Grease Fitting Assortment Metric and Standard 85 Pcs 6 Sizes       |
| EQZA164   | Grease Fitting Assortment Metric and Standard Gold 164 pc 30 Sizes |
| EQZA55    | Grease Fitting Assortment Standard Sizes 55 pc 6 sizes             |
| EQZA85    | Straight Grease Fitting Assortment Metric and Standard 85 pcs      |
| EQ407FWKA | Keystock & Woodruff Key Assortment 268pcs                          |
| EQ407A345 | Keystock Assortment 345 pc 23 Sizes                                |
| FWKA126   | Woodruff Key Assortment 126 pc 32 Sizes                            |



POWER TRANSMISSION SUPPLIES

# Section 6:

## Electrical Components



## BUTT CONNECTORS, CLOSED END CONNECTORS

### BUTT CONNECTORS

#### BRASS (TIN PLATED) • VINYL INSULATED

| Part # | Wire Gauge | Color  | Package Qty |
|--------|------------|--------|-------------|
| ELBCVR | 22-18      | Red    | 100         |
| ELBCVB | 16-14      | Blue   | 100         |
| ELBCVY | 12-10      | Yellow | 100         |
| ELBC8  | 8          | Red    | 100         |
| ELBC6  | 6          | Blue   | 100         |



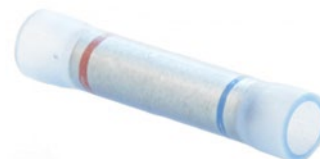
#### COPPER (TIN PLATED) • NYLON INSULATED

| Part # | Wire Gauge | Color  | Package Qty |
|--------|------------|--------|-------------|
| ELBCNR | 22-18      | Red    | 100         |
| ELBCNB | 16-14      | Blue   | 100         |
| ELBCNY | 12-10      | Yellow | 100         |



#### STEP DOWN • NYLON INSULATED

| Part #   | Wire Gauge     | Color          | Package Qty |
|----------|----------------|----------------|-------------|
| ELBCSDBR | 16-14 to 22-18 | Blue to Red    | 100         |
| ELBCSDYB | 12-10 to 16-14 | Yellow to Blue | 100         |



### CLOSED END CONNECTORS

| Part #    | Wire Gauge | Package Qty |
|-----------|------------|-------------|
| ELCEC2210 | 22-10      | 100         |
| ELCEC2214 | 22-14      | 100         |
| ELCEC1610 | 16-10      | 100         |



## RING TERMINALS

## COPPER (TIN PLATED) • VINYL INSULATED



| Part #  | Wire Gauge | Color  | Stud Size | Package Qty | Part #  | Wire Gauge | Color  | Stud Size | Package Qty |
|---------|------------|--------|-----------|-------------|---------|------------|--------|-----------|-------------|
| ELRTR06 | 22-18      | Red    | #6        | 100         | ELRTY4  | 12-10      | Yellow | 1/4       | 100         |
| ELRTR08 | 22-18      | Red    | #8        | 100         | ELRTY5  | 12-10      | Yellow | 5/16      | 100         |
| ELRTR10 | 22-18      | Red    | #10       | 100         | ELRTY6  | 12-10      | Yellow | 3/8       | 100         |
| ELRTR4  | 22-18      | Red    | 1/4       | 100         | ELRTY8  | 12-10      | Yellow | 1/2       | 100         |
| ELRTR5  | 22-18      | Red    | 5/16      | 100         | ELRT810 | 8          | Red    | #10       | 250         |
| ELRTB06 | 16-14      | Blue   | #6        | 100         | ELRT84  | 8          | Red    | 1/4       | 500         |
| ELRTB08 | 16-14      | Blue   | #8        | 100         | ELRT85  | 8          | Red    | 5/16      | 100         |
| ELRTB10 | 16-14      | Blue   | #10       | 100         | ELRT86  | 8          | Red    | 3/8       | 100         |
| ELRTB4  | 16-14      | Blue   | 1/4       | 100         | ELRT88  | 8          | Red    | 1/2       | 50          |
| ELRTB5  | 16-14      | Blue   | 5/16      | 100         | ELRT66  | 6          | Blue   | 3/8       | 50          |
| ELRTB6  | 16-14      | Blue   | 3/8       | 100         | ELRT68  | 6          | Blue   | 1/2       | 50          |
| ELRTB8  | 16-14      | Blue   | 1/2       | 100         | ELRT44  | 4          | Yellow | 1/4       | 50          |
| ELRTY06 | 12-10      | Yellow | #6        | 100         | ELRT46  | 4          | Yellow | 3/8       | 50          |
| ELRTY08 | 12-10      | Yellow | #8        | 100         | ELRT48  | 4          | Yellow | 1/2       | 50          |
| ELRTY10 | 12-10      | Yellow | #10       | 100         |         |            |        |           |             |

## COPPER (TIN PLATED) • NYLON INSULATED

| Part #   | Wire Gauge | Color  | Stud Size | Package Qty |
|----------|------------|--------|-----------|-------------|
| ELRTNY10 | 12-10      | Yellow | #10       | 100         |
| ELRTNY4  | 12-10      | Yellow | 1/4       | 100         |
| ELRTNY5  | 12-10      | Yellow | 5/16      | 100         |
| ELRTNY6  | 12-10      | Yellow | 3/8       | 100         |
| ELRTNY8  | 12-10      | Yellow | 1/2       | 100         |





# SNAP SPADES, SPADES, HOOKS

## SNAP SPADES

COPPER (TIN PLATED) ▪ VINYL INSULATED

| Part #  | Wire Gauge | Color  | Stud Size | Package Qty |
|---------|------------|--------|-----------|-------------|
| ELSSR06 | 22-18      | Red    | #6        | 100         |
| ELSSR08 | 22-18      | Red    | #8        | 100         |
| ELSSR10 | 22-18      | Red    | #10       | 100         |
| ELSSB06 | 16-14      | Blue   | #6        | 100         |
| ELSSB08 | 16-14      | Blue   | #8        | 100         |
| ELSSB10 | 16-14      | Blue   | #10       | 100         |
| ELSSB4  | 16-14      | Blue   | 1/4       | 100         |
| ELSSY08 | 12-10      | Yellow | #8        | 100         |
| ELSSY10 | 12-10      | Yellow | #10       | 100         |
| ELSSY4  | 12-10      | Yellow | 1/4       | 100         |



## SPADES

COPPER (TIN PLATED) ▪ VINYL INSULATED

| Part # | Wire Gauge | Color  | Stud Size | Package Qty |
|--------|------------|--------|-----------|-------------|
| ELSR06 | 22-18      | Red    | #6        | 100         |
| ELSR08 | 22-18      | Red    | #8        | 100         |
| ELSR10 | 22-18      | Red    | #10       | 100         |
| ELSB06 | 16-14      | Blue   | #6        | 100         |
| ELSB08 | 16-14      | Blue   | #8        | 100         |
| ELSB10 | 16-14      | Blue   | #10       | 100         |
| ELSY08 | 12-10      | Yellow | #8        | 100         |
| ELSY10 | 12-10      | Yellow | #10       | 100         |
| ELSY4  | 12-10      | Yellow | 1/4       | 100         |



## HOOKS

COPPER (TIN PLATED) ▪ VINYL INSULATED

| Part # | Wire Gauge | Color | Stud Size | Package Qty |
|--------|------------|-------|-----------|-------------|
| ELHB10 | 16-14      | Blue  | #10       | 100         |



QUICK CONNECTS

FEMALE • BRASS (TIN PLATED) • VINYL INSULATED

| Part # | Wire Gauge | Color  | Tab Width | Package Qty |
|--------|------------|--------|-----------|-------------|
| ELFQR  | 22-18      | Red    | 0.250     | 100         |
| ELFQR2 | 22-18      | Red    | 0.110     | 100         |
| ELFQB  | 16-14      | Blue   | 0.250     | 100         |
| ELFQB3 | 16-14      | Blue   | 0.187     | 100         |
| ELFQY  | 12-10      | Yellow | 0.250     | 100         |



FEMALE • BRASS (TIN PLATED) • NYLON INSULATED

| Part # | Wire Gauge | Color  | Tab Width | Package Qty |
|--------|------------|--------|-----------|-------------|
| ELFQNB | 16-14      | Blue   | 0.250     | 100         |
| ELFQNY | 12-10      | Yellow | 0.250     | 100         |



MALE • BRASS (TIN PLATED) • VINYL INSULATED

| Part # | Wire Gauge | Color  | Tab Width | Package Qty |
|--------|------------|--------|-----------|-------------|
| ELMQR  | 22-18      | Red    | 0.250     | 100         |
| ELMQR3 | 22-18      | Red    | 0.187     | 100         |
| ELMQB  | 16-14      | Blue   | 0.250     | 100         |
| ELMQB3 | 16-14      | Blue   | 0.187     | 100         |
| ELMQY  | 12-10      | Yellow | 0.250     | 100         |



MALE • BRASS (TIN PLATED) • NYLON INSULATED

| Part # | Wire Gauge | Color  | Tab Width | Package Qty |
|--------|------------|--------|-----------|-------------|
| ELMQNB | 16-14      | Blue   | 0.250     | 100         |
| ELMQNY | 12-10      | Yellow | 0.250     | 100         |



# FULLY INSULATED QUICK CONNECTS

## FULLY INSULATED QUICK CONNECTS

### FEMALE • BRASS (TIN PLATED) • NYLON INSULATED

| Part #  | Wire Gauge | Color  | Tab Width | Package Qty |
|---------|------------|--------|-----------|-------------|
| ELFFQR  | 22-18      | Red    | 0.250     | 100         |
| ELFFQR3 | 22-18      | Red    | 0.187     | 100         |
| ELFFQB  | 16-14      | Blue   | 0.250     | 100         |
| ELFFQB3 | 16-14      | Blue   | 0.187     | 100         |
| ELFFQY  | 12-10      | Yellow | 0.250     | 100         |



### FEMALE • OVAL • BRASS (TIN PLATED) • NYLON INSULATED

| Part #  | Wire Gauge | Color | Tab Width | Package Qty |
|---------|------------|-------|-----------|-------------|
| ELFFQOB | 16-14      | Blue  | 0.250     | 100         |



### MALE • BRASS (TIN PLATED) • NYLON INSULATED

| Part # | Wire Gauge | Color  | Tab Width | Package Qty |
|--------|------------|--------|-----------|-------------|
| ELMFQR | 22-18      | Red    | 0.250     | 100         |
| ELMFQB | 16-14      | Blue   | 0.250     | 100         |
| ELMFQY | 12-10      | Yellow | 0.250     | 100         |



### MALE • OVAL • BRASS (TIN PLATED) • NYLON INSULATED

| Part #  | Wire Gauge | Color | Tab Width | Package Qty |
|---------|------------|-------|-----------|-------------|
| ELMFQOB | 16-14      | Blue  | 0.250     | 100         |



## FLAGS

### FEMALE • BRASS (TIN PLATED) • NYLON INSULATED

| Part #  | Wire Gauge | Color  | Tab Width | Package Qty |
|---------|------------|--------|-----------|-------------|
| ELFLFRS | 22-18      | Red    | 0.187     | 100         |
| ELFLFR  | 22-18      | Red    | 0.250     | 100         |
| ELFLFBS | 16-14      | Blue   | 0.187     | 100         |
| ELFLFB  | 16-14      | Blue   | 0.250     | 100         |
| ELFLFY  | 12-10      | Yellow | 0.250     | 100         |



### FEMALE • BRASS (TIN PLATED) • UNINSULATED

| Part #   | Wire Gauge | Color | Tab Width | Package Qty |
|----------|------------|-------|-----------|-------------|
| ELFLFUBS | 16-14      | Blue  | 0.250     | 100         |



## BULLETS

### FEMALE • BRASS (TIN PLATED) • VINYL INSULATED

| Part # | Wire Gauge | Color | Bullet Diameter | Package Qty |
|--------|------------|-------|-----------------|-------------|
| ELBFR  | 22-18      | Red   | 0.156           | 100         |
| ELBFB  | 16-14      | Blue  | 0.156           | 100         |



### FEMALE • BRASS (TIN PLATED) • NYLON INSULATED

| Part # | Wire Gauge | Color | Bullet Diameter | Package Qty |
|--------|------------|-------|-----------------|-------------|
| ELBFBN | 16-14      | Blue  | 0.157           | 100         |



# BULLETS, PIN TERMINALS • VINYL INSULATED, QUICK SPLICES

## BULLETS

### MALE • BRASS (TIN PLATED) • VINYL INSULATED

| Part #   | Wire Gauge | Color | Bullet Diameter | Package Qty |
|----------|------------|-------|-----------------|-------------|
| ELBMR    | 22-18      | Red   | 0.157           | 100         |
| ELBMB    | 16-14      | Blue  | 0.157           | 100         |
| ELBMB180 | 16-14      | Blue  | 0.180           | 100         |



### MALE • BRASS (TIN PLATED) • NYLON INSULATED

| Part # | Wire Gauge | Color | Bullet Diameter | Package Qty |
|--------|------------|-------|-----------------|-------------|
| ELBMRN | 22-18      | Red   | 0.157           | 100         |
| ELBMBN | 16-14      | Blue  | 0.157           | 100         |

## PIN TERMINALS • VINYL INSULATED

| Part # | Wire Gauge | Color  | Package Qty |
|--------|------------|--------|-------------|
| ELPTR  | 22-18      | Red    | 100         |
| ELPTB  | 16-14      | Blue   | 100         |
| ELPTY  | 12-10      | Yellow | 100         |



## QUICK SPLICES

### BRASS (TIN PLATED) • POLYPROPYLENE INSULATED

| Part # | Wire Gauge | Color  | Package Qty |
|--------|------------|--------|-------------|
| ELSLR  | 22-18      | Red    | 100         |
| ELSLB  | 18-14      | Blue   | 100         |
| ELSLW  | 18-14      | White  | 100         |
| ELSLY  | 12-10      | Yellow | 100         |



### MOISTURE RESISTANT

This Moisture Resistant Quick Splice contains a dielectric grease which provides a moisture resistant barrier in corrosive environments. This connector is rated for 600V, 194° F, 18 gauge: 7 amps, 16 gauge: 10 amps, 14 gauge: 15 amps.

| Part #  | Wire Gauge | Color | Package Qty |
|---------|------------|-------|-------------|
| ELTCBMR | 18-14      | Blue  | 100         |



## PIGTAIL CONNECTOR

This Pigtail Connector is self-stripping and capable of connecting 2 or 3 wires in the range of 22-14 gauge. It contains an EG-3 grease sealant which provides a moisture resistant seal. They are rated for 600V, and 221° F.

| Part # | Wire Gauge | Color | Package Qty |
|--------|------------|-------|-------------|
| ELPCW  | 22-14      | Blue  | 100         |



## INSTANT TAP CONNECTORS

### BRASS (TIN PLATED) - NYLON INSULATED

Instant Tap Connectors provide an easy way to make a quick connect tap into a wire. Simply close over the wire and connect a quick connect male to the opposite end.

| Part # | Wire Gauge | Color | Package Qty |
|--------|------------|-------|-------------|
| ELITCR | 22-18      | Red   | 100         |
| ELITCB | 16-14      | Blue  | 100         |



## WIRE NUTS

### SPRING LOADED

Features: -UL listed, CSA approved components -Flame Retardant thermoplastic insulation shell -Fixed internal wire spring secures connection with optimum conductivity -Anti-slip gripping ribs for improved twisting efficiency and comfort -Deep skirt, offering superior protection against shorts and flashovers -Threaded funnel entry smoothly guides wires into the connector

| Part # | Wire Gauge | Color  | Package Qty |
|--------|------------|--------|-------------|
| ELWNG  | 22-14      | Gray   | 100         |
| ELWNB  | 22-14      | Blue   | 100         |
| ELWNO  | 22-14      | Orange | 100         |
| ELWNY  | 22-10      | Yellow | 100         |
| ELWNR  | 22-8       | Red    | 100         |



### WINGED

Features: -UL listed, CSA approved components -Flame Retardant thermoplastic insulation shell -Fixed internal wire spring secures connection with optimum conductivity -Anti-slip gripping ribs for improved twisting efficiency and comfort -Deep skirt, offering superior protection against shorts and flashovers -Threaded funnel entry smoothly guides wires into the connector

| Part # | Wire Gauge | Color  | Package Qty |
|--------|------------|--------|-------------|
| ELWNWY | 18-10      | Yellow | 100         |
| ELWNWT | 22-8       | Tan    | 100         |
| ELWNWR | 18-8       | Red    | 100         |
| ELWNWG | 18-8       | Gray   | 100         |
| ELWNWB | 14-6       | Blue   | 100         |



# ALTERNATOR TERMINALS, PIGGY BACK TERMINALS, UNINSULATED BUTT CONNECTORS, MOLDED CONNECTORS

## ALTERNATOR TERMINALS

### BRASS

| Part #  | Wire Gauge | Type   | Package Qty |
|---------|------------|--------|-------------|
| AV08776 | 16-14      | Female | 50          |
| AV08774 | 16-14      | Male   | 50          |



## PIGGY BACK TERMINALS

| Part # | Wire Gauge | Type | Package Qty |
|--------|------------|------|-------------|
| ELPBTB | 16-14      | Blue | 100         |



## UNINSULATED BUTT CONNECTORS

| Part #  | Wire Gauge | Package Qty |
|---------|------------|-------------|
| ELBCUIR | 22-18      | 100         |
| ELBCUB  | 16-14      | 100         |
| ELBCUY  | 12-10      | 100         |
| ELBCU6  | 6          | 25          |
| ELBCU4  | 4          | 25          |
| ELBCU2  | 2          | 10          |



## MOLDED CONNECTORS

### WITH LOOP

| Part #     | Description                             |
|------------|-----------------------------------------|
| ELWMFCF148 | 1-Way Bullet Looped Connector 48" 74165 |



### WITHOUT A LOOP

| Part #   | Description                       |
|----------|-----------------------------------|
| ELWMFCF2 | 2-Way Female Flat Connector 74285 |
| ELWMFCM2 | 2-Way Male Flat Connector 74255   |



# WEATHERPACK CONNECTORS, WEATHERPACK CAVITY SEAL, WEATHERPACK TERMINALS

## WEATHERPACK CONNECTORS



| Part #  | Description                                | Part #   | Description                                       |
|---------|--------------------------------------------|----------|---------------------------------------------------|
| ELWPC1F | 1 Way Sealed Weatherpack Connectors Female | ELWPC4F  | 4 Way Sealed Weatherpack Connectors Female Flat   |
| ELWPC1M | 1 Way Sealed Weatherpack Connectors Male   | ELWPC4M  | 4 Way Sealed Weatherpack Connectors Male Flat     |
| ELWPC2F | 2 Way Sealed Weatherpack Connectors Female | ELWPC4SF | 4 Way Sealed Weatherpack Connectors Female Square |
| ELWPC2M | 2 Way Sealed Weatherpack Connectors Male   | ELWPC4SM | 4 Way Sealed Weatherpack Connectors Male Square   |
| ELWPC3F | 3 Way Sealed Weatherpack Connectors Female | ELWPC6F  | 6 Way Sealed Weatherpack Connectors Female        |
| ELWPC3M | 3 Way Sealed Weatherpack Connectors Male   | ELWPC6M  | 6 Way Sealed Weatherpack Connectors Male          |

## WEATHERPACK CAVITY SEAL

| Part # | Description                   | Wire Gauge | Package Qty |
|--------|-------------------------------|------------|-------------|
| ELWPS8 | Green Weatherpack Cavity Seal | 20-18      | 25          |
| ELWPS6 | Grey Weatherpack Cavity Seal  | 16-14      | 25          |
| ELWPS2 | Blue Weatherpack Cavity Seal  | 12         | 25          |



## WEATHERPACK TERMINALS

### MALE

| Part #  | Wire Gauge | Package Qty |
|---------|------------|-------------|
| ELWPTM8 | 20-18      | 25          |
| ELWPTM6 | 16-14      | 25          |
| ELWPTM2 | 12         | 25          |



### FEMALE

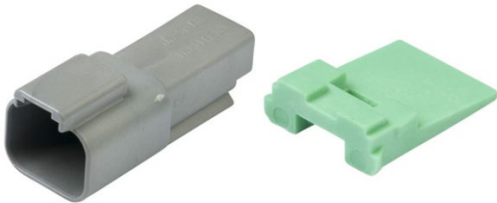
| Part #  | Wire Gauge | Package Qty |
|---------|------------|-------------|
| ELWPTF8 | 20-18      | 25          |
| ELWPTF6 | 16-14      | 25          |
| ELWPTF2 | 12         | 25          |





DEUTCH CONNECTORS DT SERIES

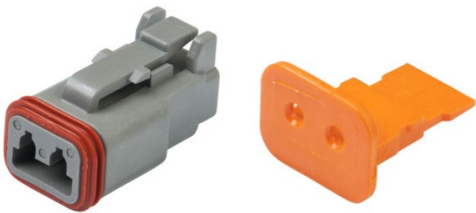
RECEPTACLES & WEDGES



| Part #   | Description               |
|----------|---------------------------|
| ELDDTR2  | Receptacle - 2 Way        |
| ELDDTRW2 | Receptacle Wedges - 2 Way |
| ELDDTR3  | Receptacle - 3 Way        |
| ELDDTRW3 | Receptacle Wedges - 3 Way |
| ELDDTR4  | Receptacle - 4 Way        |
| ELDDTRW4 | Receptacle Wedges - 4 Way |

| Part #    | Description                |
|-----------|----------------------------|
| ELDDTR6   | Receptacle - 6 Way         |
| ELDDTRW6  | Receptacle Wedges - 6 Way  |
| ELDDTR8   | Receptacle - 8 Way         |
| ELDDTRW8  | Receptacle Wedges - 8 Way  |
| ELDDTR12  | Receptacle - 12 Way        |
| ELDDTRW12 | Receptacle Wedges - 12 Way |

PLUGS & WEDGES



| Part #   | Description         |
|----------|---------------------|
| ELDDTP2  | Plug - 2 Way        |
| ELDDTPW2 | Plug Wedges - 2 Way |
| ELDDTP3  | Plug - 3 Way        |
| ELDDTPW3 | Plug Wedges - 3 Way |
| ELDDTP4  | Plug - 4 Way        |
| ELDDTPW4 | Plug Wedges - 4 Way |

| Part #    | Description          |
|-----------|----------------------|
| ELDDTP6   | Plug - 6 Way         |
| ELDDTPW6  | Plug Wedges - 6 Way  |
| ELDDTP8   | Plug - 8 Way         |
| ELDDTPW8  | Plug Wedges - 8 Way  |
| ELDDTP12  | Plug - 12 Way        |
| ELDDTPW12 | Plug Wedges - 12 Way |

DUST PLUGS

| Part #    | Description        |
|-----------|--------------------|
| ELDDTDP2  | Dust Plug - 2 Way  |
| ELDDTDP3  | Dust Plug - 3 Way  |
| ELDDTDP4  | Dust Plug - 4 Way  |
| ELDDTDP6  | Dust Plug - 6 Way  |
| ELDDTDP8  | Dust Plug - 8 Way  |
| ELDDTDP12 | Dust Plug - 12 Way |



# DEUTCH CONNECTORS DT SERIES, WAGO LEVER-NUT CONNECTORS, HEAT SHRINK QUICK CONNECTS

## SOLID PINS & SOCKETS

| Part #   | Description         | Gauge |
|----------|---------------------|-------|
| ELDDTP14 | Solid Male Pin      | 14    |
| ELDDTS14 | Solid Female Socket | 14    |
| ELDDTP20 | Solid Male Pin      | 20    |
| ELDDTS20 | Solid Female Socket | 20    |

Pins and sockets are nickle-plated.



## STAMPED PINS & SOCKETS

| Part #      | Description                | Gauge |
|-------------|----------------------------|-------|
| ELDDTSPC14F | Stamped Female Pin Contact | 16-14 |
| ELDDTSPC14M | Stamped Male Pin Contact   | 16-14 |
| ELDDTSPC16F | Stamped Female Pin Contact | 18-16 |
| ELDDTSPC16M | Stamped Male Pin Contact   | 18-16 |

Pins and sockets are nickle-plated.



## WAGO LEVER-NUT CONNECTORS

### 221 SERIES

| Part #     | Size | Wire Gauge | # of Conductors | Package Qty |
|------------|------|------------|-----------------|-------------|
| ELWLN22142 | 4mm  | 24-12      | 2               | 20          |
| ELWLN22143 | 4mm  | 24-12      | 3               | 20          |
| ELWLN22145 | 4mm  | 24-12      | 5               | 20          |
| ELWLN22162 | 6mm  | 24-10      | 2               | 20          |
| ELWLN22165 | 6mm  | 24-10      | 5               | 20          |
| ELWLN22163 | 6mm  | 16-14      | 2               | 20          |



ELECTRICAL COMPONENTS

## HEAT SHRINK QUICK CONNECTS

| Part #  | Wire Gauge | Style  | Color | Tab Width | Package Qty |
|---------|------------|--------|-------|-----------|-------------|
| ELHSFQR | 22-18      | Female | Red   | 0.250     | 100         |
| ELHSMQR | 22-18      | Male   | Red   | 0.250     | 100         |
| ELHSFQB | 16-14      | Female | Blue  | 0.250     | 100         |
| ELHSMQB | 16-14      | Male   | Blue  | 0.250     | 100         |



# HEAT SHRINK BUTT CONNECTORS, HEAT SHRINK RING TERMINALS

## HEAT SHRINK BUTT CONNECTORS

Heat Shrink Terminals provide an electrical connection which is sealed against moisture and other corrosive elements. After crimping heat is applied shrinking the insulation to around the connection and enabling the adhesive which lines the inside to melt and flow evenly for a sealed connection.

### SOLDER & CRIMP

| Part #     | Wire Gauge | Color  | Package Qty |
|------------|------------|--------|-------------|
| ELHSBCSSCR | 22-18      | Red    | 100         |
| ELHSBCSSCB | 16-14      | Blue   | 100         |
| ELHSBCSSCY | 12-10      | Yellow | 100         |



### CRIMP ONLY

| Part #  | Wire Gauge | Color  | Package Qty |
|---------|------------|--------|-------------|
| ELHSBCR | 22-18      | Red    | 100         |
| ELHSBCB | 16-14      | Blue   | 100         |
| ELHSBCY | 12-10      | Yellow | 100         |



## HEAT SHRINK RING TERMINALS



| Part #    | Wire Gauge | Color | Stud Size | Package Qty |
|-----------|------------|-------|-----------|-------------|
| ELHSRTR06 | 22-18      | Red   | #6        | 100         |
| ELHSRTR08 | 22-18      | Red   | #8        | 100         |
| ELHSRTR10 | 22-18      | Red   | #10       | 100         |
| ELHSRTR4  | 22-18      | Red   | 1/4       | 100         |
| ELHSRTR5  | 22-18      | Red   | 5/16      | 100         |
| ELHSRTR6  | 22-18      | Red   | 3/8       | 100         |
| ELHSRTB06 | 16-14      | Blue  | #6        | 100         |
| ELHSRTB08 | 16-14      | Blue  | #8        | 100         |
| ELHSRTB10 | 16-14      | Blue  | #10       | 100         |

| Part #    | Wire Gauge | Color  | Stud Size | Package Qty |
|-----------|------------|--------|-----------|-------------|
| ELHSRTB4  | 16-14      | Blue   | 1/4       | 100         |
| ELHSRTB5  | 16-14      | Blue   | 5/16      | 100         |
| ELHSRTB6  | 16-14      | Blue   | 3/8       | 100         |
| ELHSRTY10 | 12-10      | Yellow | #10       | 100         |
| ELHSRTY4  | 12-10      | Yellow | 1/4       | 100         |
| ELHSRTY5  | 12-10      | Yellow | 5/16      | 100         |
| ELHSRTY6  | 12-10      | Yellow | 3/8       | 100         |
| ELHSRTY8  | 12-10      | Yellow | 1/2       | 100         |

# HEAT SHRINK SNAP SPADES, HEAT SHRINK SPADES, HEAT SHRINK FULLY INSULATED QUICK CONNECTS, HEAT SHRINK BULLETS

## HEAT SHRINK SNAP SPADES

| Part #    | Wire Gauge | Color | Stud Size | Package Qty |
|-----------|------------|-------|-----------|-------------|
| ELHSSSB06 | 16-14      | Blue  | #6        | 100         |
| ELHSSSB08 | 16-14      | Blue  | #8        | 100         |
| ELHSSSB10 | 16-14      | Blue  | #10       | 100         |



## HEAT SHRINK SPADES

| Part #   | Wire Gauge | Color  | Stud Size | Package Qty |
|----------|------------|--------|-----------|-------------|
| ELHSSR08 | 22-18      | Red    | #8        | 100         |
| ELHSSR10 | 22-18      | Red    | #10       | 100         |
| ELHSSB08 | 16-14      | Blue   | #8        | 100         |
| ELHSSB10 | 16-14      | Blue   | #10       | 100         |
| ELHSSY10 | 12-10      | Yellow | #10       | 100         |
| ELHSSY4  | 12-10      | Yellow | 1/4       | 100         |



## HEAT SHRINK FULLY INSULATED QUICK CONNECTS

| Part #   | Wire Gauge | Color  | Stud Size | Package Qty |
|----------|------------|--------|-----------|-------------|
| ELHSFFQR | 22-18      | Red    | Female    | 100         |
| ELHSFFQB | 16-14      | Blue   | Female    | 100         |
| ELHSFFQY | 12-10      | Yellow | Female    | 100         |
| ELHSMFQR | 22-18      | Red    | Male      | 100         |
| ELHSMFQB | 16-14      | Blue   | Male      | 100         |
| ELHSMFQY | 12-10      | Yellow | Male      | 100         |



## HEAT SHRINK BULLETS

| Part #  | Wire Gauge | Color | Stud Size | Package Qty |
|---------|------------|-------|-----------|-------------|
| ELHSBFB | 16-14      | Blue  | Female    | 100         |
| ELHSBMB | 16-14      | Blue  | Male      | 100         |

Don't see the heat shrink terminal you need? Call us for availability!



# PERMASEAL HEAT SHRINK ELECTRICAL TERMINALS

## PERMASEAL HEAT SHRINK ELECTRICAL TERMINALS

Permaseal Heat Shrink Terminals shrink at a lower temperature (90°C) and up to 40% faster than polyolefin or nylon, saving installation costs and reducing the potential for wire insulation damage. Permaseal is also see through for easy visual inspection.

### HEAT SHRINK BUTT CONNECTORS PERMASEAL

| Part #    | Wire Gauge | Color  | Package Qty |
|-----------|------------|--------|-------------|
| ELPHSBCR  | 22-18      | Red    | 100         |
| ELPHSBCB  | 16-14      | Blue   | 100         |
| ELPHSBCY  | 12-10      | Yellow | 100         |
| ELPHSBCR8 | 8          | Red    | 25          |



### HEAT SHRINK STEP DOWN BUTT CONNECTORS PERMASEAL

| Part #      | Wire Gauge     | Color  | Package Qty |
|-------------|----------------|--------|-------------|
| ELPHSBCSDBR | 16-14 to 22-18 | Blue   | 25          |
| ELPHSBCSDYB | 12-10 to 16-14 | Yellow | 25          |



### HEAT SHRINK RING TERMINALS PERMASEAL



| Part #     | Wire Gauge | Color | Stud Size | Package Qty |
|------------|------------|-------|-----------|-------------|
| ELPHSRTB06 | 16-14      | Blue  | #6        | 50          |
| ELPHSRTB08 | 16-14      | Blue  | #8        | 50          |
| ELPHSRTB10 | 16-14      | Blue  | #10       | 50          |
| ELPHSRTB4  | 16-14      | Blue  | 1/4       | 50          |
| ELPHSRTB5  | 16-14      | Blue  | 5/16      | 50          |
| ELPHSRTB6  | 16-14      | Blue  | 3/8       | 50          |
| ELPHSRTR08 | 16-14      | Blue  | #8        | 50          |

| Part #     | Wire Gauge | Color  | Stud Size | Package Qty |
|------------|------------|--------|-----------|-------------|
| ELPHSRTR10 | 16-14      | Blue   | #10       | 50          |
| ELPHSRTR4  | 16-14      | Blue   | 1/4       | 50          |
| ELPHSRTY10 | 12-10      | Yellow | #10       | 25          |
| ELPHSRTY4  | 12-10      | Yellow | 1/4       | 25          |
| ELPHSRTY5  | 12-10      | Yellow | 1/4       | 25          |
| ELPHSRTY6  | 12-10      | Yellow | 3/8       | 25          |
| ELPHSRTY8  | 12-10      | Yellow | 1/2       | 25          |

### HEAT SHRINK SPADES PERMASEAL

| Part #    | Wire Gauge | Color | Stud Size | Package Qty |
|-----------|------------|-------|-----------|-------------|
| ELPHSSB06 | 16-14      | Blue  | #6        | 25          |
| ELPHSSB08 | 16-14      | Blue  | #8        | 25          |
| ELPHSSB10 | 16-14      | Blue  | #10       | 25          |



# PERMASEAL HEAT SHRINK ELECTRICAL TERMINALS, RUBBER GROMMETS, NYLON GROMMETS

## HEAT SHRINK FULLY INSULATED QUICK CONNECTS PERMASEAL

| Part #    | Wire Gauge | Color  | Tab Width | Type   | Package Qty |
|-----------|------------|--------|-----------|--------|-------------|
| ELPHSFFQB | 16-14      | Blue   | 0.250     | Female | 50          |
| ELPHSFFQY | 12-10      | Yellow | 0.250     | Female | 50          |
| ELPHSMFQB | 16-14      | Blue   | 0.250     | Male   | 50          |
| ELPHSMFQY | 12-10      | Yellow | 0.250     | Male   | 25          |



## HEAT SHRINK QUICK CONNECTS PERMASEAL

| Part #   | Wire Gauge | Color | Tab Width | Type   | Package Qty |
|----------|------------|-------|-----------|--------|-------------|
| ELPHSFQB | 16-14      | Blue  | 0.250     | Female | 50          |
| ELPHSMQB | 16-14      | Blue  | 0.250     | Male   | 50          |



## RUBBER GROMMETS

SBR MATERIAL • DUROMETER HARDNESS 60 • MADE IN USA OR IMPORTED

| Part #   | Bore | Groove Width | Groove OD | OD    | Thickness | Package Qty |
|----------|------|--------------|-----------|-------|-----------|-------------|
| AV16454  | 1/4  | 1/16         | 3/8       | 1/2   | 3/16      | 25          |
| AV16456  | 3/8  | 1/16         | 5/8       | 7/8   | 11/32     | 25          |
| AV16458  | 1/2  | 1/8          | 3/4       | 1     | 1/2       | 25          |
| ELGR5164 | 3/4  | 1/8          | -         | 1-3/8 | -         | 10          |



## NYLON GROMMETS

### SNAP BUSHINGS

| Part #  | Mounting Hole Diameter | Shop Pack Quantity |
|---------|------------------------|--------------------|
| ELNSB06 | 3/8                    | 100                |
| ELNSB08 | 1/2                    | 100                |
| ELNSB10 | 5/8                    | 100                |
| ELNSB12 | 3/4                    | 100                |
| ELNSB14 | 7/8                    | 100                |



CABLE TIES (WIRE TIES, ZIP TIES)

CABLE TIES (WIRE TIES, ZIP TIES)

Cable Ties are manufactured from 100% virgin grade nylon 6/6. Temperature range is -40° F to 185° F.

UV RESISTANT BLACK



| Part #    | Length | Tensile Strength | Color             | Width | Thickness | Bundle Dia. | Package Qty |
|-----------|--------|------------------|-------------------|-------|-----------|-------------|-------------|
| ELCTB04   | 4.1    | 18 lbs           | Black             | 0.1   | 0.04      | 1           | 100         |
| ELCTB06L  | 6.1    | 18 lbs           | Black             | 0.1   | 0.05      | 1.2         | 100         |
| ELCTB06   | 6.3    | 50 lbs           | Black             | 0.19  | 0.06      | 1.5         | 100         |
| ELCTB08   | 7.6    | 50 lbs           | Black             | 0.19  | 0.06      | 2           | 100         |
| ELCTBLU07 | 7.6    | 50 lbs           | Fluorescent Blue  | 7.6   | 0.18      | -           | 100         |
| ELCTNG07  | 7.6    | 50 lbs           | Fluorescent Green | 7.6   | 0.18      | -           | 100         |
| ELCTR07   | 7.6    | 50 lbs           | Red               | 7.6   | 0.18      | -           | 100         |
| ELCTW08   | 7.6    | 50 lbs           | White             | 0.19  | 0.06      | 2           | 100         |
| ELCTB08L  | 8      | 18 lbs           | Black             | 0.1   | 0.05      | 2.2         | 100         |
| ELCTB09H  | 9      | 120 lbs          | Black             | 0.3   | 0.07      | 2           | 100         |
| ELCTB11   | 11.1   | 50 lbs           | Black             | 0.19  | 0.06      | 3           | 100         |
| ELCTB11L  | 11.5   | 40 lbs           | Black             | 0.14  | 0.06      | -           | 100         |
| ELCTB14   | 14.5   | 50 lbs           | Black             | 0.19  | 0.06      | 4           | 100         |
| ELCTB14H  | 15     | 120 lbs          | Black             | 0.3   | 0.07      | 4           | 100         |
| ELCTB18H  | 17.7   | 120 lbs          | Black             | 0.3   | 0.07      | 5           | 100         |
| ELCTB21H  | 21.7   | 175 lbs          | Black             | 0.35  | 0.08      | 6.3         | 100         |
| ELCTB28H  | 28     | 120 lbs          | Black             | 0.35  | 0.08      | 8.2         | 100         |
| ELCTB36H  | 36.7   | 175 lbs          | Black             | 0.35  | 0.08      | 11          | 100         |
| ELCTB48H  | 48     | 175 lbs          | Black             | 0.35  | 0.08      | 15          | 100         |

UV RESISTANT BLACK - SCREW MOUNT

| Part #   | Length | Tensile Strength | Width | Bundle Dia. | Screw Size | Shop Pack Quantity |
|----------|--------|------------------|-------|-------------|------------|--------------------|
| ELCTMB06 | 6-1/8  | 40 lbs           | 0.14  | 1 3/8       | #8         | 100                |
| ELCTMB08 | 8-1/2  | 50 lbs           | 0.19  | 2           | #10        | 100                |



## SLIT LOOM

Slit Loom is manufactured from polyethylene. It is excellent for holding wires in position and protecting them. Temperature range is -40° F to 200° F.

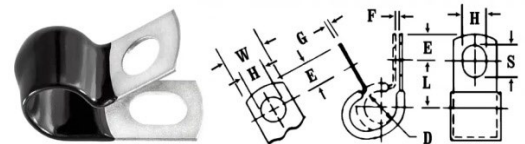
| Part # | ID  | Box Length | Bulk Length |
|--------|-----|------------|-------------|
| ELSL02 | 1/8 | 300        | -           |
| ELSL04 | 1/4 | 100        | 3200        |
| ELSL06 | 3/8 | 100        | 1900        |
| ELSL08 | 1/2 | 100        | 1100        |
| ELSL10 | 5/8 | 100        | 800         |
| ELSL12 | 3/4 | 100        | 550         |
| ELSL16 | 1   | 50         | 300         |



## LOOM CLAMPS (P CLAMPS)

### BLACK VINYL COATED

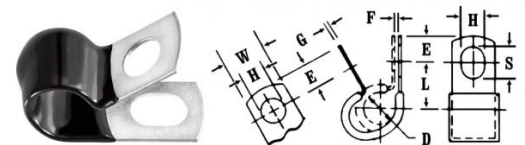
Material Thickness (G) is 0.032 for sizes up to 3/8" and 0.048 for larger sizes. Hole diameter (H) is 9/32 and slot length (S) is 3/8. Clamp width (W) is 1/2.



| Part #  | ID (D) | L     | E    | F    | Package Qty | Part #                                                                     | ID (D) | L      | E    | F    | Package Qty |
|---------|--------|-------|------|------|-------------|----------------------------------------------------------------------------|--------|--------|------|------|-------------|
| AV09381 | 1/4    | 17/32 | 5/16 | 1/32 | 25          | AV09387                                                                    | 7/8    | 27/32  | 5/16 | 1/16 | 25          |
| AV09382 | 5/16   | 17/32 | 5/16 | 1/32 | 25          | AV09388                                                                    | 1      | 29/32  | 5/16 | 1/16 | 25          |
| AV09383 | 3/8    | 19/32 | 5/16 | 1/16 | 25          | AV10604                                                                    | 7/8*   | 31/32  | 7/16 | 1/16 | 25          |
| AV09384 | 1/2    | 21/32 | 5/16 | 1/16 | 25          | AV10606                                                                    | 1-1/4  | 1-5/32 | 7/16 | 1/16 | 25          |
| AV09385 | 5/8    | 23/32 | 5/16 | 1/16 | 25          | AV10607                                                                    | 1-1/2  | 1-9/32 | 7/16 | 1/16 | 25          |
| AV09386 | 3/4    | 25/32 | 5/16 | 1/16 | 25          | *Part number AV10604 is a wider clamp. H is 13/32, S is 1/2, and W is 3/4. |        |        |      |      |             |

### BLACK VINYL COATED (Bulk Quantity)

| Part #   | ID (D) | L     | E    | F    | Package Qty | Bulk Quantity |
|----------|--------|-------|------|------|-------------|---------------|
| AV09381B | 1/4    | 17/32 | 5/16 | 1/32 | 500         | 2500          |
| AV09383B | 3/8    | 19/32 | 5/16 | 1/16 | 500         | 2500          |
| AV09386B | 3/4    | 25/32 | 5/16 | 1/16 | 500         | 2500          |





# LOOM CLAMPS (P CLAMPS), HEAT SHRINK TUBING

## REMOVABLE EPDM RUBBER JACKET

| Part #      | Closed ID | Hole Diameter | Package Qty |
|-------------|-----------|---------------|-------------|
| ELLCSRJ04   | 1/4       | 9/32          | 100         |
| ELLCSRJ06   | 3/8       | 9/32          | 100         |
| ELLCSRJ08   | 1/2       | 9/32          | 100         |
| ELLCSRJ12   | 3/4       | 9/32          | 100         |
| ELLCSRJ16   | 1         | 9/32          | 100         |
| ELLCSRJ24   | 1-1/2     | 9/32          | 100         |
| ELLCSRJ32   | 2         | 9/32          | 100         |
| ELLCSRJ5610 | 3-1/2     | 9/32          | 100         |



## BLACK NYLON

| Part #   | Diameter | Width | Package Qty |
|----------|----------|-------|-------------|
| ELLCNB04 | 1/4      | 0.375 | 100         |
| ELLCNB05 | 5/16     | 0.39  | 100         |
| ELLCNB06 | 3/8      | 0.375 | 100         |
| ELLCNB08 | 1/2      | 0.375 | 100         |



## HEAT SHRINK TUBING

All heat shrink tubing is adhesive lined.

### DUAL WALL

Dual Wall Heat Shrink Tubing shrinks to approximately 1/3 its initial size. Shrink temperature is 212° F. It has a medium thickness wall and is semi rigid. Size is given as the minimum inside diameter before shrinking.



| Part #     | Size | Color | Length | Part #     | Size | Color | Length |
|------------|------|-------|--------|------------|------|-------|--------|
| ELHSTDB02  | 1/8  | Black | 4'     | ELHSTDB086 | 1/2  | Black | 6"     |
| ELHSTDB026 | 1/8  | Black | 6"     | ELHSTDR08  | 1/2  | Red   | 4'     |
| ELHSTDB03  | 3/16 | Black | 4'     | ELHSTDR086 | 1/2  | Red   | 6"     |
| ELHSTDB036 | 3/16 | Black | 6"     | ELHSTDB12  | 3/4  | Black | 4'     |
| ELHSTDB04  | 1/4  | Black | 4'     | ELHSTDB126 | 3/4  | Black | 6"     |
| ELHSTDB046 | 1/4  | Black | 6"     | ELHSTDR12  | 3/4  | Red   | 4'     |
| ELHSTDR04  | 1/4  | Red   | 4'     | ELHSTDR126 | 3/4  | Red   | 6"     |
| ELHSTDB06  | 3/8  | Black | 4'     | ELHSTDB16  | 1    | Black | 4'     |
| ELHSTDB066 | 3/8  | Black | 6"     | ELHSTDB166 | 1    | Black | 6"     |
| ELHSTDB08  | 1/2  | Black | 4'     |            |      |       |        |

## TRIPLE WALL

Triple Wall Heat Shrink Tubing shrinks to approximately 1/3 its initial size. Shrink temperature is 248° F. It has an extra thick wall and is rigid. Size is given as the minimum inside diameter before shrinking.

| Part #     | Size | Color | Length |
|------------|------|-------|--------|
| ELHSTTB12  | 3/4  | Black | 4'     |
| ELHSTTB126 | 3/4  | Black | 6"     |
| ELHSTTR12  | 3/4  | Red   | 4'     |
| ELHSTTR126 | 3/4  | Red   | 6"     |
| ELHSTTB16  | 1.1  | Black | 4'     |
| ELHSTTB166 | 1.1  | Black | 6"     |
| ELHSTTR16  | 1.1  | Red   | 4'     |
| ELHSTTR166 | 1.1  | Red   | 6"     |



## CLEAR

Clear Heat Shrink Tubing shrinks to approximately 1/3 its initial size. Shrink temperature is 230° F. It has a medium thickness wall and is semi rigid. Size is given as the minimum inside diameter before shrinking.

| Part #   | Size | Color | Length |
|----------|------|-------|--------|
| ELHSTC03 | 3/16 | Clear | 4'     |
| ELHSTC04 | 1/4  | Clear | 4'     |
| ELHSTC06 | 3/8  | Clear | 4'     |
| ELHSTC08 | 1/2  | Clear | 4'     |



Don't see the size you need? Call us for availability!

## ENERGIZER BATTERIES

| Part #      | Description | Box Quantity | Case Quantity |
|-------------|-------------|--------------|---------------|
| ELBATAAA    | AAA         | 24           | 144           |
| ELBATAA     | AA          | 24           | 144           |
| ELBATC      | C           | 12           | 72            |
| ELBATD      | D           | 12           | 72            |
| ELBAT9V     | 9V          | 12           | 72            |
| ELBATCC357  | #357        | 10           | -             |
| ELBATCR2032 | CR2032      | 1            | -             |



## PRIMARY WIRE

### PRIMARY WIRE

#### SINGLE CONDUCTOR ▪ STRANDED ▪ COPPER

Primary Wire is standard for all kinds of original equipment such as automotive, trucks, trailers, construction equipment, and tractors.



| Part #      | Wire Gauge | Color  | Spool Size | Part #    | Wire Gauge | Color  | Spool Size |
|-------------|------------|--------|------------|-----------|------------|--------|------------|
| ELWBL8      | 18         | Black  | 100'       | ELWY6     | 16         | Yellow | 100'       |
| ELWBL83000  | 18         | Black  | 3000'      | ELWBL4    | 14         | Black  | 100'       |
| ELWBLU8     | 18         | Blue   | 100'       | ELWBL4500 | 14         | Black  | 500'       |
| ELWBLU81000 | 18         | Blue   | 1000'      | ELWBLU4   | 14         | Blue   | 100'       |
| ELWBR8      | 18         | Brown  | 100'       | ELWBR4    | 14         | Brown  | 100'       |
| ELWBR81000  | 18         | Brown  | 1000'      | ELWG4     | 14         | Green  | 100'       |
| ELWO8       | 18         | Orange | 100'       | ELWGR4    | 14         | Gray   | 100'       |
| ELWO81000   | 18         | Orange | 1000'      | ELWO4     | 14         | Orange | 100'       |
| ELWP8       | 18         | Purple | 100'       | ELWP4     | 14         | Purple | 100'       |
| ELWP81000   | 18         | Purple | 1000'      | ELWR4     | 14         | Red    | 100'       |
| ELWPI8      | 18         | Pink   | 100'       | ELWR4500  | 14         | Red    | 500'       |
| ELWPI81000  | 18         | Pink   | 1000'      | ELWW4     | 14         | White  | 100'       |
| ELWR8       | 18         | Red    | 100'       | ELWY4     | 14         | Yellow | 100'       |
| ELWR83000   | 18         | Red    | 3000'      | ELWBL2    | 12         | Black  | 100'       |
| ELWW8       | 18         | White  | 100'       | ELWBLU2   | 12         | Blue   | 100'       |
| ELWW81000   | 18         | White  | 1000'      | ELWBR2    | 12         | Brown  | 100'       |
| ELWY8       | 18         | Yellow | 100'       | ELWG2     | 12         | Green  | 100'       |
| ELWBL6      | 16         | Black  | 100'       | ELWO2     | 12         | Orange | 100'       |
| ELWBL6500   | 16         | Black  | 500'       | ELWR2     | 12         | Red    | 100'       |
| ELWBLU6     | 16         | Blue   | 100'       | ELWW2     | 12         | White  | 100'       |
| ELWBR6      | 16         | Brown  | 100'       | ELWY2     | 12         | Yellow | 100'       |
| ELWG6       | 16         | Green  | 100'       | ELWBLO    | 10         | Black  | 100'       |
| ELWO6       | 16         | Orange | 100'       | ELWBLU0   | 10         | Blue   | 100'       |
| ELWP6       | 16         | Purple | 100'       | ELWBRO    | 10         | Brown  | 100'       |
| ELWR6       | 16         | Red    | 100'       | ELWRO     | 10         | Red    | 100'       |
| ELWW6       | 16         | White  | 100'       | ELWWO     | 10         | White  | 100'       |

## DUPLEX BRAKE CABLE

Duplex Brake Cable consists of one black primary wire and one white primary wire covered with a gray PVC jacket.

| Part #   | Wire Gauge | Spool Size |
|----------|------------|------------|
| ELW62100 | 16         | 100'       |
| ELW62    | 16         | 500'       |
| ELW42100 | 14         | 100'       |
| ELW42    | 14         | 500'       |
| ELW22100 | 12         | 100'       |
| ELW02100 | 10         | 100'       |



## TRAILER CABLE

Trailer cable is 4, 6, or 7 primary wires covered with a flexible, black PVC jacket.

| Part #     | Wire Gauge  | Spool Size |
|------------|-------------|------------|
| ELTC144100 | 14          | 100'       |
| ELTC144    | 14          | 500'       |
| ELTC147    | 4-14 & 3-12 | 100'       |
| ELTC147500 | 4-14 & 3-12 | 500'       |

Don't see the wire you need? Call us for availability!



## PARALLEL WIRE

| Part #    | Wire Gauge | No. of Wires | Spool Size |
|-----------|------------|--------------|------------|
| ELWP82500 | 18         | 2            | 500'       |
| ELWP42250 | 14         | 2            | 250'       |



# BATTERY TERMINALS, COPPER LUGS

## BATTERY TERMINALS

| Part #   | Wire Gauge | Polarity |
|----------|------------|----------|
| ELBT2/ON | 2/0        | Negative |
| ELBT2/OP | 2/0        | Positive |
| ELBT4/ON | 4/0        | Negative |
| ELBT4/OP | 4/0        | Positive |



## POST TERMINALS

| Part # | Type     | Card Quantity |
|--------|----------|---------------|
| ELBPT  | Top Post | 10            |



## COPPER LUGS

Copper Lugs are perfect for large gauge applications. They can be crimped or soldered to wire.



| Part #  | Wire Gauge | Stud Size | Package Qty | Part #    | Wire Gauge | Stud Size | Package Qty |
|---------|------------|-----------|-------------|-----------|------------|-----------|-------------|
| ELCL804 | 8          | 1/4       | 50          | ELCL105   | 1          | 5/16      | 10          |
| ELCL805 | 8          | 5/16      | 50          | ELCL106   | 1          | 3/8       | 10          |
| ELCL806 | 8          | 3/8       | 50          | ELCL108   | 1          | 1/2       | 10          |
| ELCL604 | 6          | 1/4       | 50          | ELCL1/004 | 1/0        | 1/4       | 10          |
| ELCL605 | 6          | 5/16      | 25          | ELCL1/005 | 1/0        | 5/16      | 10          |
| ELCL606 | 6          | 3/8       | 25          | ELCL1/006 | 1/0        | 3/8       | 10          |
| ELCL404 | 4          | 1/4       | 25          | ELCL1/008 | 1/0        | 1/2       | 10          |
| ELCL405 | 4          | 5/16      | 25          | ELCL2/005 | 2/0        | 5/16      | 10          |
| ELCL406 | 4          | 3/8       | 25          | ELCL2/006 | 2/0        | 3/8       | 10          |
| ELCL408 | 4          | 1/2       | 25          | ELCL2/008 | 2/0        | 1/2       | 10          |
| ELCL204 | 2          | 1/4       | 25          | ELCL3/004 | 3/0        | 1/4       | 10          |
| ELCL205 | 2          | 5/16      | 25          | ELCL3/006 | 3/0        | 3/8       | 10          |
| ELCL206 | 2          | 3/8       | 25          | ELCL3/008 | 3/0        | 1/2       | 10          |
| ELCL208 | 2          | 1/2       | 25          | ELCL4/006 | 4/0        | 3/8       | 10          |
| ELCL104 | 1          | 1/4       | 10          | ELCL4/008 | 4/0        | 1/2       | 10          |

# COPPER LUGS, TRAILER CONNECTORS, ELECTRICAL JUNCTION BOXES

## HEAVY-DUTY • TIN PLATED

| Part #     | Wire Gauge | Stud Size | Package Qty |
|------------|------------|-----------|-------------|
| ELCLH405   | 4          | 5/16      | 25          |
| ELCLH406   | 4          | 3/8       | 25          |
| ELCLH205   | 2          | 5/16      | 25          |
| ELCLH206   | 2          | 3/8       | 25          |
| ELCLH2/006 | 2/0        | 3/8       | 10          |
| ELCLH2/008 | 2/0        | 1/2       | 10          |
| ELCLH3/006 | 3/0        | 3/8       | 10          |
| ELCLH3/008 | 3/0        | 1/2       | 10          |



## TRAILER CONNECTORS



| Part #      | Description                                                                        |
|-------------|------------------------------------------------------------------------------------|
| EQBPTC1007P | 7-Pin Truck End Trailer Conn, Plastic (flat Pin)                                   |
| EQBPTC1007  | Vehicle End Trailer Connector Female 7 ROUND PINS (metal)                          |
| EQBPTC1067P | 6-Pin Round to 7-Pin Flat RV Adapter                                               |
| EQBPTC107   | 7-Pin (Flat) Trailer Connector Bracket Zinc                                        |
| EQBPTC1077P | 7 Way Round to 7 Way Flat Plastic Prewired 3' Connection Built-in connection latch |

| Part #      | Description                                                            |
|-------------|------------------------------------------------------------------------|
| EQBPTC2007P | 7-Pin Trailer End Trailer Conn, Plastic (flat)                         |
| EQBPTC2064P | 6 Way Round to 4 Way Round Adapter Plastic                             |
| EQBPTC2074P | 7 Way Flat to 4 Way Flat Adapter Plastic                               |
| EQBPTC2075P | 7 Way Flat to 5 Way Round Adapter Plastic                              |
| EQBPTC2076P | 7 Way Flat to 6 Way Round Adapter Plastic (center pin auxiliary power) |
| EQBPTC2967P | 7-Pin Flat RV Trailer End w/96 In. Prewired Cable                      |

## ELECTRICAL JUNCTION BOXES

### 7 TERMINAL

7 Terminal Electrical Junction Boxes are made specifically to provide convenient, sealed access for truck/trailer electrical connections. They feature: -Seven 10-32 Studs w/Nuts & Lock Washers -Coded Terminal Connections for Easy Identification -High Impact Black Poly Box

| Part #      | Description                           |
|-------------|---------------------------------------|
| EQBP5601100 | ELECTRICAL JUNCTION BOX W/7 TERMINALS |



LED LIGHTING

LED LIGHTING

LICENSE PLATE LIGHT

| Part #      | Description                           |
|-------------|---------------------------------------|
| EQBP5622032 | 2 LED, CLEAR, 12V LICENSE PLATE LIGHT |



STOP/TURN/TAIL LIGHT

| Part #      | Description                                    |
|-------------|------------------------------------------------|
| EQBP5626510 | 10 LED, RED, 12V, 6" OVAL STOP/TURN/TAIL LIGHT |



ROUND MARKER LIGHTS

| Part #      | Description                                          |
|-------------|------------------------------------------------------|
| EQBP5627513 | 3/4" 3 LED RED ROUND MARKER LIGHT W/GROMMET & PLUG   |
| EQBP5627523 | 3/4" 3 LED AMBER ROUND MARKER LIGHT W/GROMMET & PLUG |



ROUND TRUCK & TRAILER LIGHTS

| Part #      | Description                                      |
|-------------|--------------------------------------------------|
| EQBP5624110 | 4" 10 LED, RED, ROUND STT LIGHT W/GROMMET & PLUG |



## FUSES

## GLASS

| Part #    | Amp | Box Quantity |
|-----------|-----|--------------|
| ELFAGC01  | 1   | 10           |
| ELFAGC02  | 2   | 10           |
| ELFAGC03  | 3   | 10           |
| ELFAGC05  | 5   | 10           |
| ELFAGC075 | 7.5 | 10           |
| ELFAGC10  | 10  | 10           |
| ELFAGC15  | 15  | 10           |
| ELFAGC20  | 20  | 10           |
| ELFAGC25  | 25  | 10           |



## BLADE - ATO

| Part #    | Amp   | Box Quantity | Part #   | Amp | Box Quantity |
|-----------|-------|--------------|----------|-----|--------------|
| ELFATO02  | 2     | 10           | ELFATO15 | 15  | 10           |
| ELFATO03  | 3     | 10           | ELFATO20 | 20  | 10           |
| ELFATO04  | 4     | 10           | ELFATO25 | 25  | 10           |
| ELFATO05  | 5     | 10           | ELFATO30 | 30  | 10           |
| ELFATO075 | 7 1/2 | 10           | ELFATO40 | 40  | 10           |
| ELFATO10  | 10    | 10           |          |     |              |



## BLADE - MAX

| Part #   | Amp | Box Quantity |
|----------|-----|--------------|
| ELFMAX30 | 30  | 10           |
| ELFMAX40 | 40  | 10           |
| ELFMAX50 | 50  | 10           |
| ELFMAX60 | 60  | 10           |
| ELFMAX70 | 70  | 5            |





FUSES

BLADE - MIN

| Part #    | Amp   | Box Quantity |
|-----------|-------|--------------|
| ELFMIN02  | 2     | 10           |
| ELFMIN03  | 3     | 10           |
| ELFMIN04  | 4     | 10           |
| ELFMIN05  | 5     | 10           |
| ELFMIN075 | 7 1/2 | 10           |
| ELFMIN10  | 10    | 10           |
| ELFMIN15  | 15    | 10           |
| ELFMIN20  | 20    | 10           |
| ELFMIN25  | 25    | 10           |
| ELFMIN30  | 30    | 10           |



BLADE - MICRO2

| Part #     | Amp | Box Quantity |
|------------|-----|--------------|
| ELFMIC205  | 5   | 10           |
| ELFMIC2075 | 7.5 | 10           |
| ELFMIC210  | 10  | 10           |
| ELFMIC215  | 15  | 10           |
| ELFMIC220  | 20  | 10           |
| ELFMIC225  | 25  | 10           |
| ELFMIC230  | 30  | 10           |



LOW PROFILE J CASE

| Part #     | Amp | Shop Pack Quantity |
|------------|-----|--------------------|
| ELFLJCA20X | 20  | 10                 |
| ELFLJCA30X | 30  | 10                 |
| ELFLJCA40X | 40  | 10                 |



## ALLIGATOR CLIPS

30 Amp Alligator Clips come in insulated and uninsulated. Insulated will be supplied as 1/2 with a red jacket and 1/2 with a black jacket.

| Part #   | Amps | Type            |
|----------|------|-----------------|
| ELAC30IR | 30   | Red Insulated   |
| ELAC30IB | 30   | Black Insulated |
| ELAC30N  | 30   | Uninsulated     |

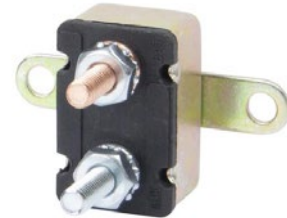


## CIRCUIT BREAKERS

### 12V • DC • AUTO RESET • METAL

These circuit breakers are single pole, thermal type breakers. The stud terminals have a 10-32 thread. The studs are .66" and .5" long. Mounting holes have a diameter of .196. Nuts and lock washers are included.

| Part #    | Amp | Bracket Type |
|-----------|-----|--------------|
| ELCB15AH  | 15  | Horizontal   |
| ELCB15ANB | 15  | None         |
| ELCB20AH  | 20  | Horizontal   |
| ELCB20ANB | 20  | None         |
| ELCB25AH  | 25  | Horizontal   |
| ELCB25ANB | 25  | None         |
| ELCB30AH  | 30  | Horizontal   |
| ELCB30ANB | 30  | None         |



## TERMINAL BLOCKS

### SCREW TYPE

These individual gang/non bussed terminal blocks provide a common area to neatly connect multiple wire connections. Each barrier is spaced .41" and each mounting area is spaced .563" center to center. They accept 10 to 22 AWG. Temperature rating is -40° F to 260° F and electrical rating is 30A at 600V.

| Part #  | Gang | Box Quantity |
|---------|------|--------------|
| ELTBS04 | 4    | 10           |
| ELTBS06 | 6    | 10           |



| Part #   | AWG   | Amp | Voltage | Screw Size | Box Quantity |
|----------|-------|-----|---------|------------|--------------|
| ELBS1212 | 22-10 | 35A | 300V    | M3.5 x 7   | 10           |



# ELECTRICAL ASSORTMENTS

## ELECTRICAL ASSORTMENTS

### ELECTRICAL TERMINALS

| Part #   | Description                                     |
|----------|-------------------------------------------------|
| ELA600   | ELECTRICAL TERMINALS 600 PC (12 SIZES)          |
| ELA1650  | ELECTRICAL TERMINALS 1650 PC (32 SIZES)         |
| ELCCA10  | CLOSED (P) CLAMP 1/4 - 1-1/2, 250 PC (10 SIZES) |
| ELCLA160 | COPPER LUGS 160 PC (16 SIZES)                   |



### HEATSHRINK ELECTRICAL TERMINALS

| Part #   | Description                                       |
|----------|---------------------------------------------------|
| ELHSA300 | HEATSHRINK ELECTRICAL TERMINALS 300 PC (12 SIZES) |
| ELHSA700 | HEATSHRINK ELECTRICAL TERMINALS 700 PC (24 SIZES) |
| ELHSTA23 | HEATSHRINK TUBING 23 PC (7 SIZES)                 |



### PERMASEAL HEATSHRINK ELECTRICAL TERMINALS

| Part #    | Description                                                 |
|-----------|-------------------------------------------------------------|
| ELPHSA421 | PERMASEAL HEATSHRINK ELECTRICAL TERMINALS 421 PC (20 SIZES) |



### RUBBER GROMMETS

| Part #  | No. of Sizes | No. of Pieces |
|---------|--------------|---------------|
| AV06933 | 24           | 252           |



### FUSES

| Part #     | Description                           |
|------------|---------------------------------------|
| ELFAATO    | FUSE ASSORTMENT ATO 120 PC (6 SIZES)  |
| ELFAATOMIN | FUSE ASSORTMENT MINI 120 PC (6 SIZES) |
| ELFAMAX    | FUSE ASSORTMENT MAX 16 PC (6 SIZES)   |



### CABLE TIES

| Part #   | Description                           |
|----------|---------------------------------------|
| ELCTA600 | CABLE TIE ASSORTMENT 600 PC (6 SIZES) |

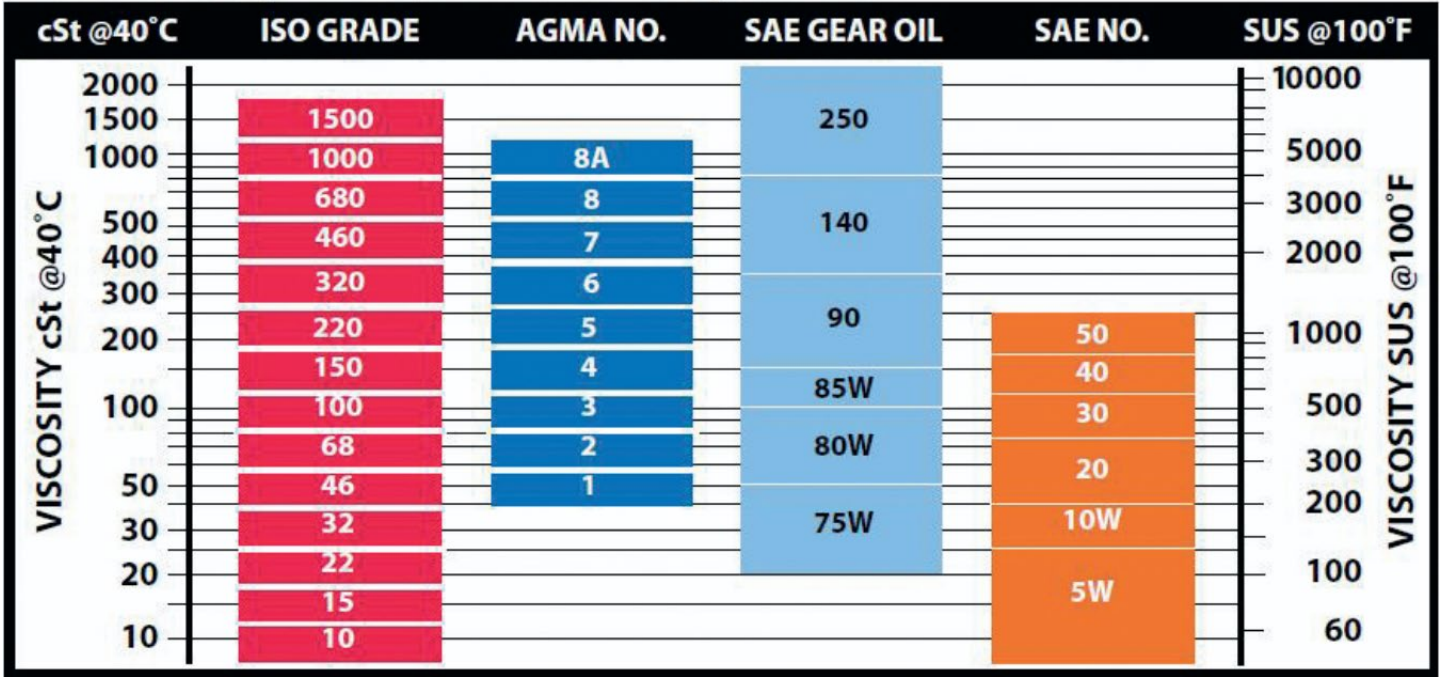


# Section 7:

## Lubricants, Chemicals & Sealants



Oil Viscosity Classification Comparisons



NLGI GREASE CLASSIFICATIONS

| NLGI NO. | DESCRIPTION | WORKED PENETRATION ASTM @ 77°F / 25°C |
|----------|-------------|---------------------------------------|
| 000      | SEMI-FLUID  | 445 - 475                             |
| 00       | SEMI-FLUID  | 400 - 430                             |
| 0        | VERY-SOFT   | 355 - 385                             |
| 1        | SOFT        | 310 - 340                             |
| 2        | MEDIUM SOFT | 265 - 295                             |
| 3        | MEDIUM      | 220 - 250                             |
| 4        | HARD        | 175 - 205                             |
| 5-6      | VERY HARD   | 85 - 160                              |

HYDRAULIC FLUIDS

Xtreme® True-Flo Anti Wear Hydraulic Oils are economical, general purpose fluids blended with anti-wear additives plus rust, oxidation, and foam inhibitors for use in industrial hydraulic systems and for hydraulic only systems in farm, logging, and construction equipment where hydraulic systems are separate from transmissions, wet clutches, and brakes. An OEM approved additive system is employed to impart maximum performance in hydraulic system applications.

| Part #    | Package Size  | Description | SAE No. |
|-----------|---------------|-------------|---------|
| CHFAW32   | 1 GAL. JUG    | AW 32       | 10W     |
| CHFAW325  | 4.8 GAL. Pail | AW 32       | 10W     |
| CHFAW465  | 4.8 GAL. Pail | AW 46       | 20W     |
| CHFAW3255 | 55 GAL. DRUM  | AW 32       | 10W     |
| CHFAW4655 | 55 GAL. DRUM  | AW 46       | 20W     |





# HYDRAULIC FLUIDS, TRACTOR HYDRAULIC FLUIDS, GEAR OILS

Gard™ Premium Anti-Wear ISO Hydraulic Fluid are blended from premium Group II base oils selected for their outstanding resistance to high temperature oxidation, thermal stability, color, and ability to stay in grade over long periods of time. The fluids are blended using an OEM approved additive system for maximum resistance to oxidation and foaming and contain a high level of zinc based anti-wear additives.

| Part #    | Package Size  | Description |
|-----------|---------------|-------------|
| CGHFAW325 | 4.8 GAL. Pail | AW 32       |



## TRACTOR HYDRAULIC FLUIDS

Xtreme® Pure-Flo and Premium Heavy Duty Tractor Hydraulic Fluids are universal hydraulic and transmission fluids for tractors, construction, and logging equipment where a single fluid services the transmission, wet clutch, wet brake, power steering, and final drives for two wheel and four wheel drive equipment. The Pure-Flo Tractor Hydraulic Fluid is a straight SAE 20W product which is more suited to warmer climates. The Xtreme Premium Heavy Duty Tractor Hydraulic Fluid is a SAE 10W-30 product which suits it for cold weather while maintaining full viscosity at operating temperatures.

| Part # | Package Size  | Description      |
|--------|---------------|------------------|
| CTHFE5 | 4.8 GAL. Pail | Xtreme Fluid 334 |



| Part # | Package Size  | Description        | Packaging Qty |
|--------|---------------|--------------------|---------------|
| CTHF   | 1 GAL. JUG    | Prem HD J20C, J21A | 4             |
| CTHF2  | 2 GAL. JUG    | Prem HD J20C, J21A | 3             |
| CTHF5  | 4.8 GAL. Pail | Prem HD J20C, J21A | -             |



## GEAR OILS

Xtreme® GL-4 Gear Lubricants are blends of highly refined base stocks, extreme pressure (EP) additives, and rust, foam, and oxidation inhibitors. They are suitable for use in most automotive and industrial gearboxes and manual transmissions where GL-4 EP gear oils are recommended. They are excellent heat transfer fluids, are non-foaming and compatible with all brass and bronze bushings. They are not recommended for use in automotive and heavy duty differentials using offset spiral bevel gear sets.

| Part #    | Package Size  | Description |
|-----------|---------------|-------------|
| CGLEP1405 | 4.8 GAL. Pail | EP 140      |
| CGLEP905  | 4.8 GAL. Pail | EP 90       |



## GEAR OILS, SYNTHETIC GEAR OILS

Xtreme® Hypoid GL-5 Limited Slip Gear Lubricants are premium quality gear oils for transmissions and final drives. They meet the toughest industry specifications for automotive extreme pressure (EP) gear lubricants in both the automotive and heavy duty differentials and manual transmissions. They are designed for EP offset spiral bevel and hypoid gear sets (ring and pinion gears). They are fully treated for use in high performance and heavy duty limited slip differentials.

| Part #    | Package Size  | Description | Packaging Qty |
|-----------|---------------|-------------|---------------|
| CGL80W90Q | 1 QT. BOTTLE  | 80W-90      | 6             |
| CGL80W90G | 1 GAL. JUG    | 80W-90      | 4             |
| CGL80W905 | 4.8 GAL. Pail | 80W-90      | -             |

| Part #     | Package Size | Description | Packaging Qty |
|------------|--------------|-------------|---------------|
| CGL85W140Q | 1 QT. BOTTLE | 85W-140     | 12            |
| CGL85W140G | 1 GAL. JUG   | 85W-140     | 4             |



## SYNTHETIC GEAR OILS

Syngard™ Synthetic Gear Lubricants MT-1 are premium quality gear oils for transmissions and final drives. They meet or exceed the highest industry specifications for automotive and heavy duty gear oils. They are designed for extreme pressure use in heavy duty trucks, rear wheel drive trucks and automobiles, shaft drive motorcycles, and all types of farm, logging, and construction equipment where GL-5 heavy duty gear oils are recommended. They are fully treated for use in automotive, heavy duty syncro-mesh, and limited slip axles. They are suitable for extended drain intervals according to the manufacturers recommendation.

| Part #      | Package Size  | Description | Packaging Qty |
|-------------|---------------|-------------|---------------|
| CSGL75W90Q  | 1 QT. BOTTLE  | 75W-90      | 6             |
| CSGL75W905  | 4.8 GAL. Pail | 75W-90      | -             |
| CSGL75W140Q | 1 QT. BOTTLE  | 75W-140     | 6             |
| CSGL75W1405 | 4.8 GAL. Pail | 75W-140     | -             |



## LUCAS BRAND

Lucas Synthetic Gear Oils are non-foaming, super slick, and long lasting. They are especially designed for heavy duty, high performance, and high temperature applications.

| Part #      | Package Size | Description | Packaging Qty |
|-------------|--------------|-------------|---------------|
| CGL75W140SL | 1 QT. BOTTLE | 75W-140     | 12            |
| CGL75W90SLG | 1 GAL. JUG   | 75W-90      | 4             |



Syngard™ Full Synthetic Heavy Duty SAE 50 Transmission Fluid is designed for use in manual and automatic transmissions where non-EP oils are specified. Suitable for extended drain intervals and for oil lubricated wheel bearings on heavy duty trucks and trailers.

| Part #    | Package Size  | Description |
|-----------|---------------|-------------|
| CSTFHD505 | 4.8 GAL. Pail | SAE 50      |



## ENGINE OILS

Xtreme® Non-Detergent Motor Oils are manufactured from virgin base oils and fortified with anti foam additives. They are for use in older vehicles where an economical lubricant is more important than long term protection.

| Part #   | Package Size | Description | Packaging Qty |
|----------|--------------|-------------|---------------|
| CMOND10W | 1 QT. BOTTLE | ND 10       | 6             |
| CMOND20W | 1 QT. BOTTLE | ND 20       | 12            |
| CMOND30W | 1 QT. BOTTLE | ND 30       | 6             |



Xtreme® Synthetic Blend Gasoline Engine Oils are designed to give the ultimate in engine protection for cars, SUV's, and light trucks. They are certified for extended drain intervals according to the manufacturers recommendations. They are API approved and licensed.

| Part #  | Package Size | Description | API Service | Packaging Qty |
|---------|--------------|-------------|-------------|---------------|
| CMO5W20 | 1 QT. BOTTLE | 5W-20       | SN          | 6             |
| CMO5W30 | 1 QT. BOTTLE | 5W-30       | SN          | 6             |



Xtreme® High Performance Engine Oils are a versatile, premium quality crank case oil. They use state of the art base oils and additives.

| Part #   | Package Size | Description | API Service | Packaging Qty |
|----------|--------------|-------------|-------------|---------------|
| CMOHD30W | 1 QT. BOTTLE | HD 30       | SN          | 6             |
| CMO10W30 | 1 QT. BOTTLE | 10W-30      | SN          | 6             |



Xtreme® Fleet Heavy Duty Engine Oils are a versatile, premium quality crank case oil for gasoline and diesel engines. They use state of the art additives and Group II base oils to meet current OEM and API requirements.

| Part #     | Package Size  | Description | API Service | Packaging Qty |
|------------|---------------|-------------|-------------|---------------|
| CMO10W305  | 4.8 GAL. Pail | 10W-30      | CI-4 PLUS   | -             |
| CMO15W40   | 1 QT. BOTTLE  | 15W-40      | CI-4 PLUS   | 6             |
| CMO15W40G  | 1 GAL. JUG    | 15W-40      | CI-4 PLUS   | 4             |
| CMO15W405  | 4.8 GAL. Pail | 15W-40      | CI-4 PLUS   | -             |
| CMO15W4055 | 55 GAL. DRUM  | 15W-40      | CI-4 PLUS   | -             |





## ENGINE OILS, FULL SYNTHETIC ENGINE OILS, ANTIFREEZE

| Part #     | Package Size | Description                | API Service | Packaging Qty |
|------------|--------------|----------------------------|-------------|---------------|
| CMO10W30NS | 1 QT. BOTTLE | 10W-30 Non Synthetic/Blend | SN          | 6             |



Syngard™ Synthetic Blend Fleet Engine Oils are formulated using state of the art additives with premium synthetic and conventional base oils. They are approved for use with ultra low sulfur diesel fuels, engines equipped with exhaust gas recirculation and diesel particulate filters. They are also approved for use in Caterpillar® engines using ACERT® technology. They offer a significant improvement over former CI-4 Plus oils.

| Part #     | Package Size  | Description | API Service | Packaging Qty |
|------------|---------------|-------------|-------------|---------------|
| CSMO15W40  | 1 QT. BOTTLE  | 15W-40      | CK-4/SN     | 12            |
| CSMO15W405 | 4.8 GAL. Pail | 15W-40      | CK-4/SN     | -             |
| CMOD10W30  | 1 QT. BOTTLE  | 10W-30      | CK-4        | 6             |
| CMOD10W305 | 4.8 GAL. Pail | 10W-30      | CK-4        | -             |



## FULL SYNTHETIC ENGINE OILS

Syngard™ Full Synthetic Engine Oils are formulated using state of the art additives with fully synthetic base oils. They are fully certified for extended drain intervals according to the engine manufacturers recommendations.

| Part #   | Package Size | Description | API Service | Packaging Qty |
|----------|--------------|-------------|-------------|---------------|
| CSMO5W40 | 1 GAL. JUG   | 5W-40       | CK-4/SN     | 4             |



## ANTIFREEZE

### CONVENTIONAL FULL STRENGTH

Conventional Antifreeze is made with ethylene glycol. It offers protection against freeze-ups, boil-overs, and corrosion.

| Part # | Package Size | Color | Case Quantity |
|--------|--------------|-------|---------------|
| CA     | 1 GAL. Jug   | Green | 6             |
| CA55   | 55 GAL. Drum | Green | -             |



## CONVENTIONAL 50/50

| Part # | Package Size | Color | Case Quantity |
|--------|--------------|-------|---------------|
| CA50   | 1 GAL. Jug   | Green | 6             |



## HEAVY DUTY 50/50

| Part #  | Package Size | Color | Case Quantity |
|---------|--------------|-------|---------------|
| CA50HDR | 1 GAL. Jug   | Red   | 6             |



## LONG LIFE FULL STRENGTH

Long Life Antifreeze is made with ethylene glycol. It offers protection for 150,000 miles or 5 years and is compatible with all antifreeze including Dex-Cool®.

| Part # | Package Size | Color  | Case Quantity |
|--------|--------------|--------|---------------|
| CALL   | 1 GAL. Jug   | Orange | 6             |



## GLOBAL AUTOMOTIVE FULL STRENGTH

Global Antifreeze is made with ethylene glycol. It mixes with any color antifreeze and works with all makes and models of automobiles and light duty trucks. It also offers extended protection for 150,000 miles or 5 years.

| Part # | Package Size | Color           | Case Quantity |
|--------|--------------|-----------------|---------------|
| CAG    | 1 GAL. Jug   | Gold/Pale Green | 6             |



## AIRBRAKE ANTIFREEZE &amp; CONDITIONER

Specially formulated additive for air-brake systems. Provides complete protection by preventing damaging moisture accumulation and ice buildup.

| Part # | Package Size | Description                       | Case Quantity |
|--------|--------------|-----------------------------------|---------------|
| CABA   | 1 QT. Bottle | AIRBRAKE ANTIFREEZE & CONDITIONER | 12            |



# AUTOMATIC TRANSMISSION FLUID, BRAKE FLUID

## AUTOMATIC TRANSMISSION FLUID

Xtreme Multi-purpose ATF Dexron III/Mercon is a premium, multi-functional automatic transmission fluid designed to service most General Motors, Ford Motor Company and many Chrysler Corporation vehicles. This product may be used wherever General Motors Dexron®, Dexron® II, Dexron® IIE, Dexron® III and Ford Mercon is recommended.

| Part #  | Package Size    | Color             | Case Quantity |
|---------|-----------------|-------------------|---------------|
| CATFD3  | 1 QT. Bottle    | DEXRON III/MERCON | 6             |
| CATFD35 | 4.8 GAL. Pail   | DEXRON III/MERCON | -             |
| CATFD65 | 5 GAL. Jug Pail | DEXRON VI/MERCON  | -             |



MAG 1 Type F Automatic Transmission Fluid is formulated with high-quality lubricating oils and an advanced additive system, providing excellent temperature protection, stable friction properties for smooth shifting, and excellent shear stability.

| Part # | Package Size | Color        | Case Quantity |
|--------|--------------|--------------|---------------|
| CATF   | 1 QT. Bottle | MAG 1 TYPE F | 12            |



Syngard Full Synthetic Heavy Duty Automatic Transmission Fluid is a full PAO synthetic transmission fluid for use where Allison TES 295, TES 389, C-4, or C-3 fluids are required. It services many heavy duty and dual rear wheel drive pickup trucks, commercial delivery vehicles, emergency vehicles, and other vehicles equipped with Allison heavy duty automatic transmissions.

| Part #   | Package Size  | Description                |
|----------|---------------|----------------------------|
| CSATFHD5 | 4.8 GAL. Pail | FULLY SYNTHETIC HEAVY DUTY |



## BRAKE FLUID

Brake Fluid comes in DOT 3/4 which is glycol based and DOT 5 which is silicone based. Each has its advantages and disadvantages so recommendations are based on application. DOT 3/4 is the much more widely used brake fluid.

| Part # | Package Size | Color | Case Quantity |
|--------|--------------|-------|---------------|
| CBF12  | 12 OZ. Can   | DOT 3 | 12            |
| CBFQ   | 1 QT. Bottle | DOT 3 | 12            |
| CBFG   | 1 GAL. Jug   | DOT 3 | 3             |
| CBF512 | 12 OZ. Can   | DOT 5 | 12            |



## BRAKE PARTS LUBRICANT

| Part #  | Package Size | Description                                          | Case Quantity |
|---------|--------------|------------------------------------------------------|---------------|
| CP24125 | 8 oz         | 24125 Permatex Ceramic EXTREME Brake Parts Lubricant | 6             |



| Part # | Package Size | Description            | Case Quantity |
|--------|--------------|------------------------|---------------|
| CSGL4  | 4 oz         | SG4 AGS Sil-Glyde Lube | 12            |



## POWER STEERING FLUID

| Part # | Package Size | Case Quantity |
|--------|--------------|---------------|
| CPSF12 | 12 oz Bottle | 12            |
| CPSFQ  | 1 QT. Bottle | 6             |



## MULTI-PURPOSE GREASE

Lubriplate 1200-2 Grease is a white colored NLGI #2 grease. It is a premium quality, lithium type grease for general purpose use.

| Part #     | Package Size     | Description | Case Quantity |
|------------|------------------|-------------|---------------|
| CL0102-035 | 5 GAL. Pail      | 1200-2      | -             |
| CL0102-098 | 14 OZ. Cartridge | 1200-2      | 10            |



# MULTI-PURPOSE GREASE

Lubriplate 930-2 Grease is a white colored NLGI #2 bentone type grease. It is formulated for higher temperatures working well up to 375° F and for short intervals up to 400° F.

| Part #     | Package Size     | Description | Case Quantity |
|------------|------------------|-------------|---------------|
| CL0100-098 | 14 OZ. Cartridge | 930-2       | 10            |



Lubriplate 1242 Grease is a white colored NLGI #2 grease. It is a premium quality, lithium type grease for general purpose use. It is very similar to the 1200-2 but is just slightly more tacky.

| Part #     | Package Size     | Description | Case Quantity |
|------------|------------------|-------------|---------------|
| CL0106-098 | 14 OZ. Cartridge | 1242        | 10            |



Lubriplate 1551 Grease is a lithium complex grease that can be used for a variety of industrial, automotive and heavy-duty construction applications. This rugged, extreme pressure lubricant can withstand higher operating temperatures than traditional lithium multi-purpose greases as well as most lithium complex greases. It is tacky, adhesive and very water resistant. The film strength and shear stability of these products are exceptional resulting in wear reduction and long lubricant life.

| Part #     | Package Size     | Description | Case Quantity |
|------------|------------------|-------------|---------------|
| CL0165-098 | 14 OZ. Cartridge | 1551        | 10            |



Lubriplate 1552 Grease is a white colored NLGI #2 grease. It is a premium quality, lithium complex grease for use as a wheel bearing grease or a premium multi purpose grease.

| Part #     | Package Size     | Description | Case Quantity |
|------------|------------------|-------------|---------------|
| CL0166-035 | 5 GAL. Pail      | 1552        | -             |
| CL0166-039 | 1/4 Drum         | 1552        | -             |
| CL0166-098 | 14 OZ. Cartridge | 1552        | 10            |



Lubriplate LTR-2 Grease is a RED lithium complex grease that can be used for a variety of industrial, automotive and heavy-duty construction applications. This rugged, extreme pressure lubricant can withstand higher operating temperatures than traditional lithium multi-purpose greases as well as most lithium complex greases. LUBRIPLATE LTR-2 is tacky, adhesive and very water resistant. The film strength and shear stability of this product is exceptional resulting in wear reduction and long lubricant life.

| Part #     | Package Size     | Description | Case Quantity |
|------------|------------------|-------------|---------------|
| CL0167-098 | 14 OZ. Cartridge | LTR-2       | 10            |



Lubriplate Poly HP-2 Grease is a polyurea-thickened lubricating grease formulated with the highest quality paraffinic base oils available. Fortified with corrosion and oxidation inhibitors, LUBRIPLATE Poly HP-2 is an excellent choice for the lubrication and protection of high-speed electric motor bearings as well as other industrial applications.

| Part #     | Package Size     | Description | Case Quantity |
|------------|------------------|-------------|---------------|
| CLO191-098 | 14 OZ. Cartridge | Poly HP-2   | 10            |



Lubriplate Wheel Bearing Grease is a white colored NLGI #2 grease. It is a premium quality, lithium complex wheel bearing grease.

| Part #     | Package Size | Description   | Case Quantity |
|------------|--------------|---------------|---------------|
| CLO220-004 | 1 Lb. Can    | WHEEL BEARING | 12            |
| CLO220-005 | 6 Lb. Can    | WHEEL BEARING | 4             |



Economical EP No. 2 grease with lithium/calcium base offers extreme pressure protection, water resistance, and reliability in contaminated environments—ideal for all vehicles, including EVs.

| Part # | Package Size     | Description     | Case Quantity |
|--------|------------------|-----------------|---------------|
| CPGPG  | 14 OZ. Cartridge | General Purpose | 10            |



High Temp Multi-Purpose Grease is a red colored NLGI #2 grease. It is an economical, lithium complex wheel bearing grease or for general purpose use. It can be used in temperatures ranging from -40° F to 350° F.

| Part # | Package Size     | Description             | Case Quantity |
|--------|------------------|-------------------------|---------------|
| CLCG   | 14 OZ. Cartridge | HIGH TEMP MULTI-PURPOSE | 10            |
| CLCG5  | 35 Lb. Pail      | HIGH TEMP MULTI-PURPOSE | -             |
| CLCG16 | 1/4 Drum         | HIGH TEMP MULTI-PURPOSE | -             |



Lubriplate 3000 Grease is a black colored NLGI #2 tacky, moly lithium type grease. It provides a durable, tenacious film to protect against water and corrosion. It is used in heavy duty construction and mining equipment.

| Part #     | Package Size     | Description | Case Quantity |
|------------|------------------|-------------|---------------|
| CLO108-035 | 5 GAL. Pail      | 3000        | -             |
| CLO108-098 | 14 OZ. Cartridge | 3000        | 10            |



## MULTI-PURPOSE GREASE, GREASES FOR SPECIAL APPLICATIONS

Lucas Red n Tacky Grease is a red colored NLGI #2 grease. It is very tacky and especially good for use in pins and bushings and places where a lot of staying power is needed.

| Part # | Package Size       | Description | Case Quantity |
|--------|--------------------|-------------|---------------|
| CRNTG  | 14.5 OZ. CARTRIDGE | RED N TACKY | 10            |
| CRNTGP | 2.5 OZ. Pack       | RED N TACKY | 10            |
| CRNTSG | 11 OZ. Spray Can   | RED N TACKY | 12            |



Lucas X-Tra Heavy Duty Grease is a green colored NLGI #2 grease. It is virtually wash out proof, withstands high temperatures, and stays soft in very low temperatures.

| Part # | Package Size       | Description     | Case Quantity |
|--------|--------------------|-----------------|---------------|
| CHDG   | 14.5 OZ. CARTRIDGE | XTRA HEAVY DUTY | 10            |



Lubriplate 630 Series Grease is a white colored lithium based grease. 630-AAA is an NLGI #0 and 630-AA is an NLGI #1. They are excellent multi-purpose greases used in Maytag wash machine repair and other applications.

| Part #     | Package Size        | Description | Case Quantity |
|------------|---------------------|-------------|---------------|
| CL0067-035 | 5 GAL. Pail         | 630-AA      | -             |
| CL0067-092 | 10 OZ. Squeeze Tube | 630-AA      | 12            |
| CL0068-035 | 5 GAL. Pail         | 630-AAA     | -             |



## GREASES FOR SPECIAL APPLICATIONS

Lubriplate MAG-00 Grease is an NLGI #00 lithium polymer type grease. It is a pourable grease and can be used in leaking gear boxes.

| Part #     | Package Size | Description |
|------------|--------------|-------------|
| CL0186-035 | 5 GAL. Pail  | MAG-00      |



Lubriplate MAG-1 Grease is a polymer type lubricant for both plain and anti-friction bearings, gears, cams and slides that will provide long service over a wide temperature range. LUBRIPLATE MAG-1 is especially designed to provide high film strength and also to provide for low torque or power reduction. LUBRIPLATE MAG-1 is designed to provide lubrication over a wide temperature range from -60°F (-51°C) to +300°F (149°C). LUBRIPLATE MAG-1 saves energy, time, money and lubricants.

| Part #     | Package Size     | Description | Case Quantity |
|------------|------------------|-------------|---------------|
| CL0189-098 | 14 OZ. Cartridge | MAG-1       | 10            |





Lubriplate High Temp Grease is a white colored NLGI #2 bentone type grease. It is a multi-purpose grease which is workable from 40° F to 500° F with frequent lube intervals.

| Part #     | Package Size     | Description | Case Quantity |
|------------|------------------|-------------|---------------|
| CL0161-098 | 14 OZ. Cartridge | High Temp   | 10            |



Lubriplate EMB Grease is a white colored NLGI #2 lithium polymer type grease. It was developed specifically for electric motor bearings, fans, and other high speed bearings.

| Part #     | Package Size     | Description            | Case Quantity |
|------------|------------------|------------------------|---------------|
| CL0148-098 | 14 OZ. Cartridge | ELECTRIC MOTOR BEARING | 10            |



Lubriplate FGL-2 Grease is a white colored NLGI #2 aluminum complex type grease. It is designed for use in the food and beverage processing industry. It is a class H-1 grease and is USDA authorized for lubricants with incidental contact with edible product.

| Part #     | Package Size     | Description | Case Quantity |
|------------|------------------|-------------|---------------|
| CL0232-098 | 14 OZ. Cartridge | Food Grade  | 10            |



Lubriplate #105 Motor Assembly Grease is a white colored light bodied grease. It is designed especially for motor assembly. It provides lubrication during the initial start up before the motor oil has circulated and protects freshly machined engine parts.

| Part #     | Package Size        | Description    | Case Quantity |
|------------|---------------------|----------------|---------------|
| CL0034-094 | 10 OZ. SQUEEZE TUBE | MOTOR ASSEMBLY | 36            |



Lubriplate Spray Lube A is a white colored medium density lithium based grease. It sprays like a fluid, then congeals to a grease. It is excellent for latches, locks, hinges, battery terminals, and other hardware.

| Part #     | Package Size     | Description  | Case Quantity |
|------------|------------------|--------------|---------------|
| CL0034-063 | 11 OZ. SPRAY CAN | SPRAY LUBE A | 12            |





## GREASES FOR SPECIAL APPLICATIONS, SYNTHETIC GREASE

Lubriplate Gear Shield Extra Heavy is a black colored NLGI #2.5 lithium based grease. It is for all types of open gears and especially for adverse conditions where gears are exposed to abrasive conditions.

| Part #     | Package Size     | Description             | Case Quantity |
|------------|------------------|-------------------------|---------------|
| CLO152-063 | 11 OZ. SPRAY CAN | GEAR SHIELD EXTRA HEAVY | 12            |



Non-curing silicone compound used for electrical sealing, lubricating, protecting, and insulating. Waterproofs electrical connections and components. Improves electrical performance in adverse weather conditions.

| Part # | Package Size     | Description                 | Case Quantity |
|--------|------------------|-----------------------------|---------------|
| CDG    | 16 OZ. Spray Can | CRC 03082 Dielectric Grease | 12            |



Permatex Dielectric Tune-Up Grease protects electrical connections and wiring from salt, dirt, and corrosion. Prevents voltage leakage, spark plugs from fusing to boots, and is required for modern high energy ignition systems.

| Part #  | Package Size          | Description        | Case Quantity |
|---------|-----------------------|--------------------|---------------|
| CP81150 | 0.33 OZ. SQUEEZE TUBE | DIELECTRIC TUNE-UP | 6             |
| CP22058 | 3 OZ. SQUEEZE TUBE    | DIELECTRIC TUNE-UP | 6             |



## SYNTHETIC GREASE

Lubriplate Synxtreme HD greases are 100% synthetic, calcium sulfonate based. This advanced technology delivers outstanding shear stability, reduced wear and excellent resistance to water and other corrosive substances. They are outstanding lubricants for all types of anti-friction bearings, which are subjected to wide operating temperature ranges. The synthetic fluid used in these greases delivers increased oxidation stability and enables them to be effective at application temperatures up to 400°F with frequent re-lubrication intervals.

| Part #     | Package Size     | Description    | Case Quantity |
|------------|------------------|----------------|---------------|
| CLO402-098 | 14 OZ. Cartridge | SYNXTREME HD-1 | 10            |



Lubriplate Synxtreme HD-2 is a NLGI #2 calcium sulfonate complex grease. It is a high performance, extreme duty, multi-purpose, synthetic grease which provides unsurpassed anti-wear and extreme pressure protection. It is highly water resistant and works well over a wide range of temperature extremes and other adverse conditions.

| Part #     | Package Size     | Description    | Case Quantity |
|------------|------------------|----------------|---------------|
| CLO401-039 | 120LB. 1/4 DRUM  | SYNXTREME HD-2 | -             |
| CLO401-098 | 14 OZ. Cartridge | SYNXTREME HD-2 | 10            |



## SYNTHETIC GREASE, GREASE GUNS AND ACCESSORIES

We stock the 125cc Flex Lubricator with Lubriplate Synxtreme HD-1/220 Grease. Lubriplate Synxtreme HD-1/220 is a NLGI #1 calcium sulfonate complex grease. It is a high performance, extreme duty, multi-purpose, synthetic grease which provides unsurpassed anti-wear and extreme pressure protection. It is highly water resistant and works well over a wide range of temperature extremes and other adverse conditions.

| Part #     | Package Size | Description        | Case Quantity |
|------------|--------------|--------------------|---------------|
| CL0313-231 | 120cc        | SynXTREME HD-1/220 | -             |



| Part #     | Package Size | Description               | Case Quantity |
|------------|--------------|---------------------------|---------------|
| CL0306-625 | 250cc        | SynXTREME FG-1 Refill Kit | -             |



The Flex Lubricator comes with a 1/4 NPT. We stock the following adapters to adapt them to the threads in your bearing. Many other sizes and varieties of adapters are available.

| Part #       | Description              |
|--------------|--------------------------|
| EQHF54050204 | 1/4 FNPT x 1/8 MNPT      |
| CLB101-000   | 1/4 FNPT x 1/16 MNPT     |
| CLB200-000   | 1/4 FNPT x 1/8 MNPT 45°  |
| CLB201-000   | 1/4 FNPT x 1/16 MNPT 45° |
| CLB300-000   | 1/4 FNPT x 1/8 MNPT 90°  |
| CLB301-000   | 1/4 FNPT x 1/16 MNPT 90° |



## GREASE GUNS AND ACCESSORIES

| Part # | Description                     |
|--------|---------------------------------|
| EQGGLA | Lever Action Grease Gun Lincoln |
| EQGGPG | Pistol Grip Grease Gun Lincoln  |



## METAL WORKING FLUIDS

### METAL WORKING FLUIDS

Lubriplate Metal Working Fluid is a specially developed product for metalworking operations. It is excellent for drilling, tapping, sawing, and grinding. It comes in an aerosol can for easy application.

| Part #     | Package Size | Description         | Packaging Qty |
|------------|--------------|---------------------|---------------|
| CLO185-063 | 12 OZ. Can   | METAL WORKING FLUID | 12            |



Lubriplate No. 405 Dark Cutting Oil is a heavy-duty cutting oil and is recommended for difficult machining operations. Excellent for high carbon steels, alloys, and stainless steels but not recommended for brass, bronze, copper, or aluminum.

| Part #     | Package Size | Description | Packaging Qty |
|------------|--------------|-------------|---------------|
| CLO587-057 | 1 GAL. JUG   | #405        | 4             |
| CLO587-060 | 5 GAL. PAIL  | #405        | -             |



Tool Crib Tool Cutting Oil is clear lightweight oil that improves metal cutting operations by cooling and lubricating at the cutting point. Outperforms average cutting oils due to the special pressure and anti-friction agents added. Resists runoff, eliminates scoring and chatter marks, and prolongs the life of your blades. Effective for both ferrous and non-ferrous machining. Extension tube provided for pinpoint application.

| Part # | Package Size | Description                | Packaging Qty |
|--------|--------------|----------------------------|---------------|
| CTTCO  | 18 oz        | Tool Crib Tool Cutting Oil | 6             |



Viking Ultra Lube is formulated to cling to a surface better than most cutting and drilling fluids.

| Part # | Package Size  | Description | Packaging Qty |
|--------|---------------|-------------|---------------|
| CUL    | 4 OZ. BOTTLE  | ULTRA LUBE  | 12            |
| CUL16  | 16 OZ. BOTTLE | ULTRA LUBE  | 12            |



### GRINDING COMPOUND

Permatex Valve Grinding Compound is an aid to valve grinding and seating operations to remove burrs, surface defects, carbon, gum, and corrosion. It can be used for lapping and grinding chromium. It mixes with water to form an easy-to-use paste.

| Part #  | Package Size         | Description             | Packaging Qty |
|---------|----------------------|-------------------------|---------------|
| CP80036 | 1.5 OZ. SQUEEZE TUBE | VALVE GRINDING COMPOUND | 12            |



## AIR COMPRESSOR OIL

Lubriplate Air Compressor Oils are formulated to reduce carbon and varnish buildup. They contain fluid zinc to effectively fight friction and wear thus reducing heat and foaming.

| Part #     | Package Size | Description | SAE No. | Packaging Qty |
|------------|--------------|-------------|---------|---------------|
| CL0704-057 | 1 GAL. JUG   | AC-0        | 10      | 4             |
| CL0705-057 | 1 GAL. JUG   | AC-1        | 20      | 4             |
| CL0706-054 | 1 QT. JUG    | AC-2        | 20      | 12            |
| CL0706-057 | 1 GAL. JUG   | AC-2        | 20      | 4             |
| CL0707-054 | 1 QT. JUG    | AC-2A       | 30      | 12            |
| CL0707-057 | 1 GAL. JUG   | AC-2A       | 30      | 4             |
| CL0710-057 | 1 GAL. JUG   | AC-4        | 40      | 4             |



## SYNTHETIC AIR COMPRESSOR OIL

| Part #     | Package Size | Description | SAE No. | Packaging Qty |
|------------|--------------|-------------|---------|---------------|
| CL0971-057 | 1 GAL. JUG   | SYN LUBE 46 | 20      | 4             |

## AIR TOOL LUBRICANT

Lubriplate Air Tool Lubricant is designed for both rotary and reciprocating types of air tools. It is proven as an excellent air line lubricant and removes gumming and sludge.

| Part #     | Package Size | Description        | Packaging Qty |
|------------|--------------|--------------------|---------------|
| CL0713-054 | 1 QT. BOTTLE | AIR TOOL LUBRICANT | 12            |
| CL0713-057 | 1 GAL. JUG   | AIR TOOL LUBRICANT | 4             |
| CL0713-060 | 5 GAL. PAIL  | AIR TOOL LUBRICANT | -             |



## VACUUM PUMP OIL

Lubriplate Vacuum Pump Oil is a high performance, non-detergent mineral oil recommended for use in most rotary vane and rotary lobe vacuum pumps. It is designed to alleviate sludge, carbon deposits, and contamination problems commonly found in industrial vacuum pumps.

| Part #     | Package Size | Description     | Packaging Qty |
|------------|--------------|-----------------|---------------|
| CL0945-057 | 1 GAL. JUG   | VACUUM PUMP OIL | 4             |
| CL0945-060 | 5 GAL. PAIL  | VACUUM PUMP OIL | -             |



# HYDRAULIC JACK OIL, ROCK DRILL OIL, WAY LUBE, CHAIN & BAR LUBE

## HYDRAULIC JACK OIL

Lubriplate Hydraulic Jack Oil is a heavy duty, high pressure, anti-wear, and non-corrosive hydraulic fluid recommended for hydraulic jacks and similar applications.

| Part #     | Package Size | Description        | Packaging Qty |
|------------|--------------|--------------------|---------------|
| CL0768-054 | 1 QT. JUG    | HYDRAULIC JACK OIL | 12            |



## ROCK DRILL OIL

One of the most critical points of lubrication in Mining and Construction operations is the lubrication of rock drills of all kinds, both underground and aboveground, where either line oilers are used or where the reservoir is on the tool. Lubriplate Rock Drill Oils have proven their value with outstanding performance for several years under some of the most extreme operating conditions, lubricating rock drills, air hammers and other pneumatic tools. Lubriplate Rock Drill 10-R is an SAE 10 grade recommended for colder or winter operations or where a light grade is needed.

| Part #     | Package Size | Description    | Packaging Qty |
|------------|--------------|----------------|---------------|
| CL0847-057 | 1 GAL. JUG   | ROCK DRILL OIL | 4             |



## WAY LUBE

Fiske's Way Lube 68 is a medium weight oil designed for combination machine tool way lubrication and bearing lubrication. It contains lubricity and tacky agents to improve both its anti-wear capability and adhesiveness.

| Part #     | Package Size | Description |
|------------|--------------|-------------|
| CF0570-060 | 5 GAL. PAIL  | WAY LUBE    |



## CHAIN & BAR LUBE

Xtreme Chain & Bar Lube is blended with virgin base oils only. They receive a treatment of polymer wetting and tackiness additives. All Season Chain & Bar Lube is designed to use year round.

| Part #   | Package Size | Description | Packaging Qty |
|----------|--------------|-------------|---------------|
| CCBL     | 1 GAL. JUG   | ALL SEASON  | 4             |
| CCBLSG   | 1 GAL. JUG   | SUMMERGRADE | 4             |
| CCBLWG   | 1 GAL. JUG   | WINTERGRADE | 4             |
| CCBLSG55 | 55 GAL. DRUM | SUMMERGRADE | -             |
| CCBLWG55 | 55 GAL. DRUM | WINTERGRADE | -             |



## 2-CYCLE ENGINE OIL

Syngard™ Synthetic Blend 2-Cycle Engine Oil is designed to give the ultimate in engine protection for all air cooled 2-cycle engines. It is blended using synthetic and conventional base stocks and state-of-the-art additive technology. The 6.4 oz. bottle size is convenient to mix 2.5 gallons 50 to 1 or 2 gallons 40 to 1.

| Part # | Package Size  | Description          | Packaging Qty |
|--------|---------------|----------------------|---------------|
| COO32  | 32 OZ. BOTTLE | 2-CYCLE OUTBOARD OIL | 12            |
| COO128 | 1 GAL. JUG    | 2-CYCLE OUTBOARD OIL | 3             |



| Part # | Package Size   | Description                                | Packaging Qty |
|--------|----------------|--------------------------------------------|---------------|
| CCSO   | 6.4 OZ. BOTTLE | Xtreme 2-Cycle Oil<br>Air-cooled ISO L-EGD | 24            |



## FUEL ADDITIVES

Lucas Upper Cylinder Lubricant (Fuel Treatment) is formulated for both gasoline and diesel engines. It is a blend of super slick oils and high detergents to clean and add lubricity to fuel.

| Part # | Package Size | Description    | Case Quantity |
|--------|--------------|----------------|---------------|
| CFT5   | 5.25 OZ. Can | FUEL TREATMENT | 24            |
| CFTQ   | 1 QT. Bottle | FUEL TREATMENT | 12            |
| CFT    | 1 GAL. Jug   | FUEL TREATMENT | 4             |



Power Service Diesel Fuel Supplement is an anti-gel/winterizer intended for use in temperatures below 30° F. It prevents fuel gelling, fuel filters from plugging with wax, and boosts cetane for better cold starts.

| Part #  | Package Size  | Description                | Case Quantity |
|---------|---------------|----------------------------|---------------|
| CD91126 | 26 OZ. Bottle | DIESEL 911 FUEL SUPPLEMENT | 12            |
| CD911Q  | 1 QT. Bottle  | DIESEL 911 FUEL SUPPLEMENT | 12            |
| CD91180 | 80 OZ. Bottle | DIESEL 911 FUEL SUPPLEMENT | 6             |
| CDCBQ   | 1 QT. Bottle  | DIESEL CETANE BOOST        | 12            |
| CDFS26  | 26 OZ. Bottle | DIESEL CETANE BOOST        | 12            |
| CDFSQ   | 1 QT. Bottle  | DIESEL FUEL SUPPLEMENT     | 12            |



## FUEL ADDITIVES, FUEL & OIL ADDITIVES, OIL ADDITIVES

Howe's Diesel Treat is a diesel fuel anti-gel. It also adds lubricity and displaces water out of fuel.

| Part # | Package Size    | Description             | Case Quantity |
|--------|-----------------|-------------------------|---------------|
| CHL    | 1/2 GAL. Bottle | DIESEL TREAT & ANTI GEL | 6             |



## FUEL & OIL ADDITIVES

Seafoam Motor Treatment is petroleum based and can be added to oil or fuel. It cleans, stabilizes fuel, controls moisture, and adds lubricity. It is safe to use with all engine components.

| Part # | Package Size  | Description     | Case Quantity |
|--------|---------------|-----------------|---------------|
| CMT    | 16 OZ. Bottle | MOTOR TREATMENT | 24            |



Marvel Mystery Oil can be added to fuel or oil. When added to fuel it cleans and adds lubricity. When added to oil it breaks down deposits of carbon and sludge which prevents valve sticking and clatter.

| Part # | Package Size | Description        | Case Quantity |
|--------|--------------|--------------------|---------------|
| CMMOQ  | 1 QT. Bottle | MARVEL MYSTERY OIL | 6             |
| CMMOG  | 1 GAL. Jug   | MARVEL MYSTERY OIL | 4             |



## OIL ADDITIVES

Lucas Heavy Duty Oil Stabilizer is a 100% petroleum based product formulated to eliminate dry starts, reduce friction, heat, and wear in engines.

| Part # | Package Size | Description    | Case Quantity |
|--------|--------------|----------------|---------------|
| COSQ   | 1 QT. Bottle | OIL STABILIZER | 12            |
| COS    | 1 GAL. Jug   | OIL STABILIZER | 4             |





Lucas Hydraulic Boost stops leaks in hydraulic systems and increases hydraulic pressure.

| Part # | Package Size | Description     | Case Quantity |
|--------|--------------|-----------------|---------------|
| CHB    | 1 GAL. Jug   | HYDRAULIC BOOST | 4             |



Lucas Hub Oil was formulated to stop leaks in steering axles and trailer hubs on heavy duty trucks.

| Part # | Package Size | Description | Case Quantity |
|--------|--------------|-------------|---------------|
| CHO    | 1 QT. Bottle | HUB OIL     | 12            |



Lucas Transmission Fix is a non-solvent formula that stops slip, hesitation, and rough shifting in worn transmissions. It also stops most seal leaks.

| Part # | Package Size  | Description      | Case Quantity |
|--------|---------------|------------------|---------------|
| CTF    | 24 OZ. Bottle | TRANSMISSION FIX | 12            |



Isopropyl Gas line Antifreeze removes water from fuel and is safer for the system than methanol because it allows the water to mix with the fuel and removes it from the system.

| Part # | Package Size  | Description                   | Case Quantity |
|--------|---------------|-------------------------------|---------------|
| CIGA   | 10 OZ. Bottle | ISOPROPYL GAS LINE ANTIFREEZE | 24            |



Bar's Leak Cooling System Treatment is a great way to prevent and stop leaks in a cooling system.

| Part # | Package Size       | Description              | Case Quantity |
|--------|--------------------|--------------------------|---------------|
| CBLCG  | 100-5 Gram Tablets | COOLING SYSTEM STOP LEAK | 1             |





## PENETRATING OILS

### PENETRATING OILS

Loosen frozen metal parts the professional way, with Kroil Original Penetrant aerosol (Aerokroil) formula.

| Part #   | Package Size | Description           | Case Quantity |
|----------|--------------|-----------------------|---------------|
| CKPO03   | 3 OZ. CAN    | Kroil Penetrating Oil | 12            |
| CKPO10   | 10 OZ. CAN   | Kroil Penetrating Oil | 12            |
| CKPO16.5 | 16.5 OZ. CAN | Kroil Penetrating Oil | 12            |



WD-40 is a penetrant and lubricant which displaces moisture and protects.

| Part # | Package Size | Description | Packaging Qty |
|--------|--------------|-------------|---------------|
| CWD40  | 12 OZ. CAN   | WD-40       | 12            |
| CWD40G | 1 GAL. JUG   | WD-40       | 4             |



ZEP dispenser for WD-40.

| Part #  | Description             | Packaging Qty |
|---------|-------------------------|---------------|
| EQWD40D | ZEP DISPENSER FOR WD 40 | 4             |



Stoner Skid penetrates, lubricates, cleans, and protects. It leaves a very thin coating to help protect metals and prevent future seizing.

| Part # | Package Size | Description | Packaging Qty |
|--------|--------------|-------------|---------------|
| CSK    | 10 OZ. CAN   | SKID        | 6             |



Cyclo Breakaway Penetrant penetrates quickly and leaves a long lasting lubricant. It is excellent at stopping annoying squeaks and protecting against rust and corrosion.

| Part # | Package Size | Description     | Packaging Qty |
|--------|--------------|-----------------|---------------|
| CCBP   | 13 OZ. CAN   | CYCLO BREAKAWAY | 12            |



Gibbs Brand Lubricant is an excellent penetrant, lubricant, and cleaner. It stops and eliminates corrosion, displaces moisture, and provides long lasting protection for storage.

| Part # | Package Size | Description | Packaging Qty |
|--------|--------------|-------------|---------------|
| CGPL   | 12 OZ. CAN   | GIBBS       | 12            |



CRC Freeze-Off® is a unique formula that immediately drops the temperature of the area in direct contact with the spray. The freezing effect cracks rusted surfaces, allowing Freeze-Off® to reach deeper & work more effectively than other penetrants. Low VOC Formula.

| Part # | Package Size | Description                | Packaging Qty |
|--------|--------------|----------------------------|---------------|
| CFO    | 11.5 OZ. CAN | FREEZE-OFF SUPER PENETRANT | 12            |



B'laster PB50 All Purpose Lube is a penetrant and lubricant which displaces moisture and protects. It is B'laster's equivalent of WD-40.

| Part # | Package Size | Description | Packaging Qty |
|--------|--------------|-------------|---------------|
| CPB50  | 8 OZ. CAN    | PB50        | 12            |



B'laster Penetrating Catalyst is a penetrant which breaks loose surface tension on rusted/frozen parts. It also provides minimal lubricating action.

| Part # | Package Size | Description | Packaging Qty |
|--------|--------------|-------------|---------------|
| CPBB   | 11 OZ. CAN   | PB BLASTER  | 12            |
| CPBBG  | 1 GAL. JUG   | PB BLASTER  | 4             |



Seafoam Deep Creep penetrates rusted parts and lubricates moving metal parts, disperses moisture, and cuts through grease, engine varnish, and road tar. It withstands heat so it can be used with a torch to loosen badly rusted parts.

| Part # | Package Size | Description | Packaging Qty |
|--------|--------------|-------------|---------------|
| CDC    | 12 OZ. CAN   | DEEP CREEP  | 12            |



## PENETRATING OILS, DRY LUBES

Lubriplate Chain & Cable Fluid is a superior penetrating oil that cleans and lubricates without gumming. It is ideal for chains, cables, and other moving metal parts.

| Part #     | Package Size     | Description         | Packaging Qty |
|------------|------------------|---------------------|---------------|
| CLO135-063 | 11 OZ. CAN       | CHAIN & CABLE FLUID | 12            |
| CLO135-035 | 5 GAL. PAIL      | CHAIN & CABLE FLUID | -             |
| CLO135-039 | 16 GAL. 1/4 DRUM | CHAIN & CABLE FLUID | -             |



## DRY LUBES

Tool Crib Dry Graphite Lube is a fast drying graphite lubricant that reduces friction and noise. Effective under heavy pressures and high temperature extremes. The oil-free formulation resists water and alkalis. May be used as a parting compound on dies, sand cores or match plates.

| Part # | Package Size | Description                 | Packaging Qty |
|--------|--------------|-----------------------------|---------------|
| CTDGL  | 14 OZ. Can   | Tool Crib Dry Graphite Lube | 6             |



Tool Crib Dry Moly Lube is a quick-drying, thin film that provides superior lubrication under extreme pressures and a broad temperature ranges. Excellent adhesion, oil free, and protects against seizing, fretting, and galling. Provides excellent anti-wear protection for cutting and forming tools.

| Part # | Package Size | Description             | Packaging Qty |
|--------|--------------|-------------------------|---------------|
| CTDML  | 14 OZ. Can   | Tool Crib Dry Moly Lube | 1             |



B'laster Dry Lube is formulated with Teflon™ Fluoropolymer, which helps reduce friction and wear, protect surfaces and enhance performance. Use it on locks and catches, hinges, cables, window and door tracks, rope and conveyor belts. It provides superior lubrication and is safe for use on most plastics.

| Part # | Package Size | Description                | Packaging Qty |
|--------|--------------|----------------------------|---------------|
| CPBDL  | 9.3 OZ. CAN  | B'LASTER DRY LUBE W/TEFLON | 12            |



WD-40® SPECIALIST® DIRT & DUST RESISTANT DRY LUBE PTFE SPRAY lubricates and provides superior long-lasting corrosion protection with no oily residue. It dries quickly and resists dirt, dust and oil. WD-40 Specialist Dirt & Dust Resistant Dry Lube PTFE Spray reduces friction and wear on blades and bits, door and window tracks, slides, conveyor belts, rollers, hinges, power tools and equipment. Our dry lubricant is also ideal for releasing molded parts, and it's 50-state VOC compliant.

| Part #  | Package Size | Description              | Packaging Qty |
|---------|--------------|--------------------------|---------------|
| CWD40DL | 10 OZ. CAN   | WD40 DRY LUBE PTFE SPRAY | 6             |



## CLEANING CHEMICALS

Master Carb & Choke Cleaner is oxygen sensor and catalytic converter safe.

| Part # | Brand          | Package Size  | Case Qty |
|--------|----------------|---------------|----------|
| CCC20  | Prime/Johnsens | 16.25 OZ. Can | 12       |



This heavy duty cleaner quickly removes grease and oil, strips wax, and cleans without leaving a residue. It is environmentally formulated and does not contain caustic acids or chlorinated solvents. Safe to use on most surfaces. Rinse objects with water to neutralize after cleaning.

| Part # | Brand     | Package Size | Case Qty |
|--------|-----------|--------------|----------|
| CTMCG  | Tool Crib | 15 OZ. Can   | 6        |



CRC Brakleen (5089) is formulated to quickly and effectively remove grease, oils, and dirt from brake parts. It is a chlorinated, non-flammable formula.

| Part # | Brand | Package Size | Case Qty |
|--------|-------|--------------|----------|
| CBK    | CRC   | 11 OZ. Can   | 12       |
| CBKG   | CRC   | 1 GAL. Jug   | 4        |



Electric Contact Cleaner and Electric Motor Cleaner quickly and effectively degrease and remove dirt and other foreign matter from electrical devices and parts, that may cause electrical failure. The Electric Contact Cleaner is a quick dry formula.

| Part # | Brand | Package Size | Case Qty |
|--------|-------|--------------|----------|
| CECC   | CRC   | 11 OZ. Can   | 12       |



Seafoam Spray is for internal engine use only. It cleans varnish and deposit buildup in 2 cycle and 4 cycle engines.

| Part # | Brand   | Package Size | Case Qty |
|--------|---------|--------------|----------|
| CSES   | Seafoam | 12 OZ. Can   | 12       |



## CLEANING CHEMICALS

Mag 1 Non-Chlorinated Brake Cleaner is formulated to quickly and effectively remove grease, oils, and dirt from brake parts. It is a non-chlorinated, flammable formula.

| Part # | Brand | Package Size | Case Qty |
|--------|-------|--------------|----------|
| CBCNC  | MAG1  | 14 OZ. Can   | 12       |



Cyclo Non-Chlorinated Brake Parts Clean eliminates chlorinated solvent concerns in waste oil disposal and is suitable for all vehicles including EV

| Part # | Brand | Package Size | Case Qty |
|--------|-------|--------------|----------|
| CBCNCC | Cyclo | 14 OZ. Can   | 12       |



Johnsen's Non-Chlorinated Brake Cleaner removes oil, grease, brake fluid and contaminants quickly and with no residue. For use on all ABS, disc and drum brakes. For sale in areas that restrict the VOC content of consumer products to 45%. Suitable for all vehicles including EV.

| Part #    | Brand     | Package Size | Case Qty |
|-----------|-----------|--------------|----------|
| CBCNC2417 | Johnsen's | 14 OZ. Can   | 12       |



CRC Non-Chlorinated Brake Cleaner quickly removes brake fluid chlorine-free product removes grease, oil, other contaminants suitable for all vehicles including EV.

| Part # | Brand | Package Size | Case Qty |
|--------|-------|--------------|----------|
| CBKNC  | CRC   | 14 OZ. Can   | 12       |



B'laster Air Tool Conditioner is designed to restore and prolong air tool life by cleaning, coating, and lubricating tools. It breaks loose deposits which accumulate over time and inhibits rust.

| Part # | Package Size | Description          | Packaging Qty |
|--------|--------------|----------------------|---------------|
| CATC   | 11 OZ. CAN   | AIR TOOL CONDITIONER | 12            |



Battery Terminal Cleaner is specifically designed for battery terminal cleaning.

| Part # | Brand | Package Size | Case Qty |
|--------|-------|--------------|----------|
| CBTCC  | CRC   | 19 OZ. Can   | 12       |



XENIT contains NO soap or water. Instead, it contains more powerful ingredients like Citrus 66, a natural cleaning solvent. Unlike most water-based cleaners that just lift and carry dirt, XENIT's MicroActive cleaning action loosens and breaks down the complex molecules found in sticky materials and difficult stains. XENIT leaves no residue, has a pleasant orange scent, and contains a disinfectant to help kill germs and odors.

| Part # | Brand  | Package Size | Case Qty |
|--------|--------|--------------|----------|
| CXCCS  | Stoner | 10 OZ. Can   | 12       |



Anti-Spatter Spray: Environmentally safe spray reduces welding spatter. Made of non-toxic ingredients

| Part # | Package Size | Description                | Pkg Qty |
|--------|--------------|----------------------------|---------|
| CWASSC | 16 OZ. can   | Welding Anti-Spatter Spray | 12      |



## STARTING FLUID

Starting Fluid saves batteries in cold weather. It contains upper cylinder lubricant and works down to -65° F. Premium starting fluid contains 50% ether and has twice the starting power of regular starting fluid.

| Part # | Package Size | Description            | Pkg Qty |
|--------|--------------|------------------------|---------|
| CSFPB  | 11 OZ. can   | Regular Starting Fluid | 12      |
| CSFPS  | 7.2 OZ. can  | Premium Starting Fluid | 12      |
| CSFR   | 11 OZ. can   | Premium Starting Fluid | 12      |



# SILICONE LUBRICANT, BELT DRESSING, COLD WELD COMPOUNDS

## SILICONE LUBRICANT

Johnsen's Silicone Lubricant is an all purpose lubricant. It prolongs life, prevents squeaks, and lubricates.

| Part # | Package Size | Description    | Packaging Qty |
|--------|--------------|----------------|---------------|
| CSS    | 10 OZ. Can   | Silicone Spray | 12            |

A clear silicone lubricant for use on all sliding and rubbing surfaces. Authorized by USDA for use in Federally inspected meat and poultry plants. Comes with an extension tube for pinpoint application, and sprays in any position. Withstands high pressures, does not stain, and has low odor.

| Part # | Package Size | Description                       | Packaging Qty |
|--------|--------------|-----------------------------------|---------------|
| CTSL   | 13 OZ. Can   | Silicone Lube H1 Food Grade Spray | 6             |



## BELT DRESSING

Permatex Belt Dressing extends belt life by penetrating the cord fibers of v-belts to restore pliability, flexibility, and prevent slippage due to heat, cold, dampness, and dust.

| Part #  | Package Size | Description         | Case Quantity |
|---------|--------------|---------------------|---------------|
| CP80073 | 12 OZ. Can   | BELT DRESSING SPRAY | 12            |



## COLD WELD COMPOUNDS

QW-14 PermaWeld adhesive bonds hard and soft plastics, composites, ceramics, and wood quickly, gelling in 5 to 6 minutes and fixing in 9 to 10 minutes for strong, durable connections to specified surfaces.

| Part # | Package Size  | Description     | Packaging Qty |
|--------|---------------|-----------------|---------------|
| CQW    | 2/1 OZ. Tubes | QW-14 PERMAWELD | 6             |



Pro Seal Proweld Quik is a quick set epoxy steel and sets in 4 minutes. It resists temperatures up to 300° F. It can be drilled, tapped, machined, filed, and sanded. It is resistant to diesel, gas, oil, water, and antifreeze.

| Part #   | Package Size  | Description  | Packaging Qty |
|----------|---------------|--------------|---------------|
| CPS64605 | 2/1 OZ. Tubes | PROWELD QUIK | 12            |





## ANTISEIZE

Permatex Anti-Seize Lubricant is used during assembly to prevent galling, corrosion, and seizing. It withstands temperatures of up to 1600° F for the aluminum anti-seize and up to 1800 F for the copper anti-seize.

| Part #  | Package Size          | Description                  | Case Quantity |
|---------|-----------------------|------------------------------|---------------|
| CP81343 | 1 OZ. Tube            | ALUMINUM ANTISEIZE LUBRICANT | 12            |
| CP80078 | 8 OZ. BOTTLE W/BRUSH  | ALUMINUM ANTISEIZE LUBRICANT | 12            |
| CP31163 | 16 OZ. BOTTLE W/BRUSH | COPPER ANTISEIZE LUBRICANT   | 12            |



A corrosion resistant lubricant that aids in the assembly and disassembly of mating parts that are subjected to extreme heat, pressure and corrosion. Reduces wear and friction, eliminates galling & seizure up to 750F (399C), and stops galvanic pitting. Will not wash, scrape or burn off. Spray in any position with the all-position valve. An extension tube is furnished as well for pinpoint application. Excellent for marine applications or where salt water corrosion could be a problem.

| Part # | Package Size | Description                    | Case Quantity |
|--------|--------------|--------------------------------|---------------|
| CTHDA  | 15 OZ. Can   | Tool Crib Heavy Duty Antiseize | 6             |



Heavy duty, temperature resistant, petroleum-based lubricant compound fortified with graphite and metallic flake. Inert and will not evaporate or harden in extreme cold or heat. For use in assemblies.

| Part # | Package Size | Description                                                              | Case Quantity |
|--------|--------------|--------------------------------------------------------------------------|---------------|
| CLSGA  | 12 OZ. Can   | Loctite 8151 Silver Grade Aerosol Spray Antiseize (protects to 1600 deg) | -             |



## CORROSION INHIBITORS

| Part # | Package Size | Description       | Case Quantity |
|--------|--------------|-------------------|---------------|
| CBP    | 6 OZ. Can    | BATTERY PROTECTOR | 12            |



This is a multi-purpose lightweight lubricant that both penetrates and protects against rust and corrosion. Displaces moisture, prevents flash rusting, and provides long term protection for metal. Does not contain silicone and meets following government specifications: MIL-C-16173D and MIL-C-23411 (metal corrosion test) and MIS-C-22235A (stain test).

| Part # | Package Size | Description                     | Case Quantity |
|--------|--------------|---------------------------------|---------------|
| CT5CI  | 15 OZ. Can   | 5Way Corrosion Inhibitor & Lube | 6             |





## THREAD SEALANT W/PTFE (PIPE DOPE), SLIME

### THREAD SEALANT W/PTFE (PIPE DOPE)

Permatex Thread Sealant w/PTFE is a general purpose fitting sealant which outperforms tapes and pipe dopes. It seals and resists pressure in air, oil, diesel, and hydraulic systems. Withstands temperatures of -65° F to 300° F.

| Part #  | Size         | Description             | Packaging Qty |
|---------|--------------|-------------------------|---------------|
| CP80632 | 4OZ BOTTLE   | THREAD SEALANT W/TEFLON | 12            |
| CP80633 | 16OZ. BOTTLE | THREAD SEALANT W/TEFLON | 12            |



Permatex High Temp Thread Sealant locks and seals threaded fittings. It resists leakage, vibration loosening, moisture, hydraulic fluids and diesel fuels. It lubricates threads for easy assembly and disassembly. Won't shred or wear like Teflon® tape. Parts may be repositioned up to 4 hours after application. Temperature range -65°F to 400°F (-54°C to 204°C). Contains PTFE.

| Part #  | Size      | Description              | Packaging Qty |
|---------|-----------|--------------------------|---------------|
| CP59235 | 50ML TUBE | HIGH TEMP THREAD SEALANT | 6             |



### SLIME

Slime Tire Sealant is formulated for use in all pneumatic tires. Once installed slime remains liquid and will not harden or dry out. As a treated tire rotates centrifugal force pushes the sealant to the tread area treating punctures. It is not intended to repair sidewall punctures, bead leaks, damaged rims, or faulty valves. On high speed, over the road tires it should be used as a temporary repair only.

| Part # | Package Size  | Description           | Case Quantity |
|--------|---------------|-----------------------|---------------|
| CTS08  | 8 OZ. Bottle  | TUBELESS TIRE SEALANT | 6             |
| CTS16  | 16 OZ. Bottle | TUBELESS TIRE SEALANT | 6             |
| CTS32  | 32 OZ. Bottle | TUBELESS TIRE SEALANT | 6             |
| CTSG   | 1 GAL. Jug    | TUBELESS TIRE SEALANT | 2             |



Slime Tube Sealant is formulated for use in all tube tires. Once installed slime remains liquid and will not harden or dry out. As a treated tire rotates centrifugal force pushes the sealant to the tread area treating punctures. It is not intended to repair sidewall punctures, bead leaks, damaged rims, or faulty valves. On high speed, over the road tires it should be used as a temporary repair only.

| Part # | Package Size  | Description  | Case Quantity |
|--------|---------------|--------------|---------------|
| CTST16 | 16 OZ. Bottle | TUBE SEALANT | 6             |



## SHOP TOWELS

Scott Shop Towels are strong, absorbent, multipurpose, and disposable. They are excellent for tough jobs.

| Part # | Package Size  | Description           | Pkg Qty |
|--------|---------------|-----------------------|---------|
| EQSTB  | 200 TOWEL BOX | SHOP TOWELS IN A BOX  | 8       |
| EQSTC  | 55 TOWEL ROLL | SHOP TOWELS ON A ROLL | 30      |



## HAND & TOOL WIPES

| Part #   | Package Size   | Description                           | Pkg Qty |
|----------|----------------|---------------------------------------|---------|
| TPT99001 | 82 PC CANISTER | 9x12" USA PROFERRED HAND & TOOL WIPES | 6       |



## CAR CARE PRODUCTS

Gunk Glass Cleaner with ammonia cleans glass without streaking. It comes in a hand pump spray bottle.

| Part # | Brand | Package Size  | Case Qty |
|--------|-------|---------------|----------|
| CGCG   | Gunk  | 33 OZ. bottle | 12       |



Sprayway Aerosol Glass Cleaner is excellent on windows, mirrors, windshields, and all glass surfaces, effortlessly dissolving dirt, grease, and grime. Its heavy-duty foam clings vertically, ensures no film residue, contains perfume-grade alcohol, is ammonia-free, and leaves a streakless, clean, fresh fragrance.

| Part # | Brand    | Package Size | Case Qty |
|--------|----------|--------------|----------|
| CGCS   | Sprayway | 19 OZ. can   | 12       |



Guaranteed streak-free results! Invisible Glass contains no added soaps, scents, or dyes – all of which leave behind a filmy residue. Tested and proven to be 100% residue-free by independent laboratories, IG reliably delivers streak-free results. Foaming Action Foaming action clings quickly powers away oil, dirt, pet slobber, grease, and fingerprints.

| Part # | Brand  | Package Size | Case Qty |
|--------|--------|--------------|----------|
| CIG    | Stoner | 19 OZ. can   | 12       |



# CAR CARE PRODUCTS, RUBBERIZED UNDERCOATING, HAND CLEANERS

Master Tire Care Foam cleans, shines, and protects tires in one step. There is no wiping and no mess.

| Part # | Brand  | Package Size | Case Qty |
|--------|--------|--------------|----------|
| CTCF   | Master | 15 OZ. can   | 12       |



## RUBBERIZED UNDERCOATING

A paintable undercoating for all vehicle undercarriages. Forms a rubberized skin that reduces road noise and protects metal from salt corrosion and road debris. Dries fast and does not sag. Does not 'bleed-thru' when topcoated.

| Part # | Seymour Part # | Color                               | Packaging Qty |
|--------|----------------|-------------------------------------|---------------|
| CSRU   | 20-46          | Rubberized Undercoating (Paintable) | 12            |



This black, rubberized coating dries quickly and provides waterproof protection against rust, corrosion, extreme temperatures, dust, fumes, and road salt. It's ideal for automotive applications such as undercarriages, frames, and wheel wells to reduce road noise, as well as for minor roof repairs, gutters, downspouts, and foundations.

| Part # | Type                           | Packaging Qty |
|--------|--------------------------------|---------------|
| CUCM   | Prime Guard Undercoating Spray | 12            |



## HAND CLEANERS

### DIRT COP

Dirt Cop Hand Cleaner's non-solvent formula eliminates drying and cracking. Dye and perfume free, and is infused with walnut shells for exfoliating power. The thick concentrate formula reduces hand soap use by up to 75%. It washes away with no greasy residue.

| Part #   | Package Size | Description                                  | Pkg Qty |
|----------|--------------|----------------------------------------------|---------|
| TPT99200 | 2.5 L        | Dirt Cop Hand Degreaser with Dispenser Frame | -       |
| TPT99201 | 2.5 L        | Dirt Cop Hand Degreaser Refill               | 4       |
| TPT99202 | -            | Dirt Cop Dispenser Frame for Hand Degreaser  | 12      |



Crystal Green Hand Cleaner cleans and conditions. It is for use with or without water. It liquefies, emulsifies, dissolves, and floats away oil, grease, tar, dirt, ink, and paint.

| Part #  | Package Size | Description   | Pkg Qty |
|---------|--------------|---------------|---------|
| CHCCGN  | 1 GAL. JUG   | Crystal Green | 4       |
| CHCCGNQ | 1 QT. BOTTLE | Crystal Green | 12      |



| Part # | Description                                   |
|--------|-----------------------------------------------|
| EQHCP  | REPLACEMENT HAND CLEANER PUMP FOR GALLON JUGS |



Fast Orange Hand Cleaner is biodegradable, waterless, petroleum solvent free, and contains no harsh chemicals. Pure, fresh smelling, natural citrus power does the cleaning. It is available smooth, or with pumice. The fine pumice provides an abrasive to remove the toughest dirt.

| Part #   | Package Size | Description          | Pkg Qty |
|----------|--------------|----------------------|---------|
| CP23-218 | 1 GAL. JUG   | FAST ORANGE SMOOTH   | 4       |
| CP25-219 | 1 GAL. JUG   | FAST ORANGE W/PUMICE | 4       |



Gojo Orange Hand Cleaner w/Pumice is a quick acting lotion formula with pumice scrubbing particles for cleaning a broad range of industrial soils, medium dirt, and grease. It uses citrus power to do the cleaning.

| Part #   | Package Size | Description              | Pkg Qty |
|----------|--------------|--------------------------|---------|
| CHCGJOPG | 1 GAL. JUG   | GOJO ORANGE HAND CLEANER | 4       |





Seymour of Sycamore is the manufacturer of quality spray paints and chemicals since 1949. Seymour spray paint is quite simply, the best spray paint available. With high solids content it covers more quickly than the competition. It does not run or sag, resists heat and chemicals, and protects against weather.

SPRAY PAINT

MRO® HIGH SOLIDS

A superior industrial spray paint with the highest solid content of all Seymour paints. Formulated for maintenance operations where maximum performance is required. This high solids paint does not run or sag, and gives twice the coverage of conventional spray paints. Resists oil, gas, heat and sunlight.



| Part #  | Seymour Part # | Color               | Packaging Qty |
|---------|----------------|---------------------|---------------|
| CSPMA   | 620-1411       | Aluminum            | 6             |
| CSPMCG  | 620-1448       | Cascade Green       | 6             |
| CSPMDB  | 620-1426       | Deep Blue           | 6             |
| CSPMDG  | 620-1449       | Dark Green          | 6             |
| CSPMDMG | 620-1417       | Dark Machinery Gray | 6             |
| CSPMFB  | 620-1433       | Black               | 6             |
| CSPMFW  | 620-1412       | White               | 6             |
| CSPMG   | 620-1416       | Gray                | 6             |
| CSPMGB  | 620-1415       | Black               | 6             |
| CSPMGL  | 620-1418       | Light Gray          | 6             |
| CSPMGP  | 620-1431       | Gray                | 6             |
| CSPMGW  | 620-1413       | White               | 6             |

| Part #   | Seymour Part # | Color                | Packaging Qty |
|----------|----------------|----------------------|---------------|
| CSPMIR   | 620-1441       | IHC Red              | 6             |
| CSPMLB   | 620-1430       | Lift Blue            | 6             |
| CSPMNEY  | 620-1443       | New Equipment Yellow | 6             |
| CSPMOO   | 620-1450       | Orange               | 6             |
| CSPMRIOP | 620-1407       | Red Iron Oxide       | 6             |
| CSPMRY   | 620-1446       | Ryder Yellow         | 6             |
| CSPMSB   | 620-1427       | Safety Yellow        | 6             |
| CSPMSBG  | 620-1437       | Green Paint          | 6             |
| CSPMSO   | 620-1451       | Safety Orange        | 6             |
| CSPMSR   | 620-1423       | Safety Red           | 6             |
| CSPMS    | 620-1460       | Stainless Steel      | 6             |
| CSPMSY   | 620-1419       | Safety Yellow        | 6             |

## HI-TECH®

A premium grade spray paint formulated for general purpose applications where maximum indoor/outdoor coating performance is required. Hi-Tech provides a tough finish that inhibits rust and resists heat and gasoline. Available in a complete line of high gloss colors, with some available in semi-gloss and flat finishes. Hides well, dries fast, and resists chipping and peeling.

| Part # | Seymour Part # | Color                  | Packaging Qty |
|--------|----------------|------------------------|---------------|
| CSPHGC | 16-121         | GLOSS CLEAR UV LACQUER | 6             |



## SPRUCE®

Spruce General Use spray paint is formulated to give you a full service line of quality, low priced aerosol products. • Designed for close-up (8-10") spraying • Eliminates wasted paint, over-spraying and sag • Does not contain lead, CFC's or chlorinated solvents

| Part #  | Seymour Part # | Color                    | Packaging Qty |
|---------|----------------|--------------------------|---------------|
| CSPSCA  | 98-1           | Chrome Aluminum Lacquer  | 6             |
| CSPSGB  | 98-3           | Gloss Black              | 12            |
| CSPSGLY | 98-34          | Gloss Light Yellow       | 12            |
| CSPSGW  | 98-2           | Gloss White              | 12            |
| CSPSSB  | 98-24          | Satin Black              | 12            |
| CSPSSGB | 98-38          | Semi-Gloss Black Lacquer | 12            |



## FARM & INDUSTRY

Farm and Industry paint is not only environmentally safer, but economical to use. More coverage and better hide per can requires fewer cans to get the job done. Seymour's Farm and Industry spray enamel is heat resistant to 300°F, and dries quickly to a hard, long-lasting finish. Offered in a wide variety of factory-matched colors that won't fade, chip, crack or peel and is resistant to many chemicals including gasoline, oil and grease. Excellent for touch-up on farm tractors, implements, industrial and construction equipment.

| Part #    | Seymour Part # | Color                 | Packaging Qty |
|-----------|----------------|-----------------------|---------------|
| CSPFIFB   | 16-242         | FORD BLUE             | 6             |
| CSPFINJDG | 16-268         | NEW JOHN DEERE GREEN  | 6             |
| CSPFINJDY | 16-266         | NEW JOHN DEERE YELLOW | 6             |



## EASY TRIGGER SPRAY GRIP

Easy to use, full grip spray paint can trigger sprayer. Provides maximum control while spraying and reduces finger fatigue, making large projects easier. Features a durable construction & reusable for future projects.

| Part # | Seymour Part # | Type                    | Packaging Qty |
|--------|----------------|-------------------------|---------------|
| CSPSTG | Z-13           | Easy Trigger Spray Grip | 6             |



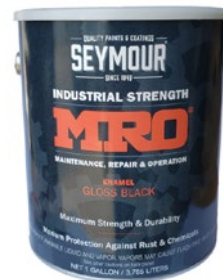
# MRO® HIGH SOLIDS, SPECIALTY COATINGS

## MRO® HIGH SOLIDS

### GALLONS

A superior industrial paint with the highest solid content of all Seymour paints. Formulated for maintenance operations where maximum performance is required. This high solids paint does not run or sag, and gives twice the coverage of conventional paints. Resists oil, gas, heat and sunlight.

| Part #  | Seymour Part # | Color         | Packaging Qty |
|---------|----------------|---------------|---------------|
| CSPMGBG | 1-1415         | Black         | 4             |
| CSPMGPG | 1-1431         | Gray Primer   | 4             |
| CSPMSYG | 1-1419         | Safety Yellow | 4             |



## SPECIALTY COATINGS

### HOT SPOT®

A special formulation that can withstand temperatures up to 1200°F on a continuous basis. A porcelain-like bond is formed at high temperatures. Resists blistering, peeling, discoloration, or loss of adhesion.

| Part # | Seymour Part # | Color           | Packaging Qty |
|--------|----------------|-----------------|---------------|
| CSPHSB | 16-1203        | High Heat Black | 6             |



### RUST CONVERTER

Seymour Rust Converter can be applied to any iron or steel surface to penetrate rust and turn it into a protective black coating.

| Part # | Seymour Part # | Color | Packaging Qty |
|--------|----------------|-------|---------------|
| CSPRC  | 16-45          | Black | 6             |



### MRO COLD GALV PRIMER

A cold galvanizing primer that contains 93% Type I inorganic zinc in the dried paint film. Resists oxidation, and the galvanizing protection continues even if scratched. Can be topcoated for maximum durability.

| Part # | Seymour Part # | Color                  | Packaging Qty |
|--------|----------------|------------------------|---------------|
| CSPCGP | 16-1445        | Cold Galvanized Primer | 6             |



### OE SHINY GALV-ZINC RICH

Seymour O.E. Shiny Galv contains 65% zinc. It is considered a sacrificial coating and meets ASTM A780 specifications.

| Part #  | Seymour Part # | Color            | Packaging Qty |
|---------|----------------|------------------|---------------|
| CSPOESG | 16-842         | Shiny Galvanized | 6             |





### GALVANIZED COATING, COLD GALV PRIMER

Seymour Galvanized Coating, Cold Galv Primer is a shiny zinc enhanced zinc coating that prevents rust and provides excellent outdoor protection. This is the product of choice for the cosmetic restoration of galvanized metal, chain link fences, and guard rails. Does not meet specifications calling for 65% zinc in the can or greater than 90% zinc in the dried paint film. Fast dry, prevents rust, and has excellent outdoor durability.

| Part # | Seymour Part # | Color            | Packaging Qty |
|--------|----------------|------------------|---------------|
| CSPSG  | 16-841         | Shiny Galvanized | 6             |



### GALVANIC SELF-ETCHING PRIMER PBE

A durable, zinc enhanced coating that protects all metal surfaces. Electrochemical galvanic action keeps on protecting even if scratched. Dry film is 86-Percent pigment which results in less smoke and electrode wear when welding, and cuts faster than 100-Percent zinc rich coatings. Stops rust creepage. Specifically formulated to meet the performance needs of body shop personnel. Large spray head gives a professional looking application. Heat resistant up to 250°F. Comes in a can, sprays like a gun.

| Part #   | Seymour Part # | Color                        | Packaging Qty |
|----------|----------------|------------------------------|---------------|
| CSPPSEGP | 20-1675        | Galvanic Self-Etching Primer | 6             |



### STAINLESS STEEL

Seymour Stainless Steel is a special formulation containing 316L stainless-steel mixed in with pigment to provide maximum corrosion resistance and protection against weather, sunlight, oil, and water. Dries to a satin finish.

| Part # | Seymour Part # | Type                  | Packaging Qty |
|--------|----------------|-----------------------|---------------|
| CSPSS  | 16-054         | Stainless Steel Spray | 6             |



### SEAL-IT

Seymour Seal-It is a multi-purpose sealant for small cracks and will not lose flexibility. It resists water, protects against UV sunlight, and will not crack in cold weather. It is ideal for small cracks on roofs, around windows, and doors and can be topcoated with oil and latex paints.

| Part # | Seymour Part # | Color         | Packaging Qty |
|--------|----------------|---------------|---------------|
| CSPSI  | 20-148         | Seal-It Black | 12            |





# SPECIALTY COATINGS, TOOL CRIB® CHEMICALS, AERVOE MARKING PAINT

## SANDABLE BLACK PRIMER PBE

Professional grade products specifically formulated to meet the performance needs of body shop personnel. Sandable in 5 minutes, this primer adheres extremely well to bare metal surfaces. Very good protection against rust and corrosion. Large spray head gives a professional looking application. Heat resistant up to 250°F. Comes in a can, sprays like a gun.

| Part #  | Seymour Part # | Color        | Packaging Qty |
|---------|----------------|--------------|---------------|
| CSPPSBP | 20-1672        | Black Primer | 6             |



## TOOL CRIB® CHEMICALS

Seymour Chain & Cable Lube is a lightweight black lubricant which penetrates deeply and prolongs the life of any size chain or wire by keeping it supple and preventing rust.

| Part # | Seymour Part # | Product                      | Packaging Qty |
|--------|----------------|------------------------------|---------------|
| CTCCL  | 620-1502       | CHAIN & CABLE LUBE WITH MOLY | 6             |



Super Strength Penetrating Lubricant is a lightweight penetrant that releases rusted, corroded or frozen assemblies. This fast acting formulation includes penetrants, lubricants, and corrosion inhibitors and leaves an anti-rust film for continued protection. Sprays in any direction and an extension tube is provided for pinpoint application.

| Part # | Seymour Part # | Product                              | Packaging Qty |
|--------|----------------|--------------------------------------|---------------|
| CTSPL  | 620-1543       | SUPER STRENGTH PENETRATING LUBRICANT | 6             |



## AERVOE MARKING PAINT

Provides great color durability for up to 3 months, depending on traffic and exposure. It meets standards set by OSHA and APWA/ONE Call Systems. It is not affected by moisture or water and it will not wash away once dry. The spray-through cap eliminates accidental discharge. Each can is non-clogging and empties completely.

| Part #   | Size  | Color                  | Packaging Qty |
|----------|-------|------------------------|---------------|
| CMPCFBA  | 15 oz | Fluorescent Blue       | 12            |
| CMPCFGA  | 15 oz | Fluorescent Green      | 12            |
| CMPCFOA  | 15 oz | Fluorescent Orange     | 12            |
| CMPCFPA  | 15 oz | Fluorescent Pink       | 12            |
| CMPCFRA  | 15 oz | Fluorescent Red        | 12            |
| CMPCFROA | 15 oz | Fluorescent Red-Orange | 12            |
| CMPCFYA  | 15 oz | Fluorescent Yellow     | 12            |
| CMPCWA   | 15 oz | White                  | 12            |



## CAULKS & SEALANTS

### 100% SILICONE

Geocel 8125® 100% Silicone High Performance Acetoxy Cure Sealant is a high modulus, one-component sealant. It has excellent adhesion to non-porous surfaces and is able to withstand  $\pm 25\%$  joint movement.

| Part #   | Size         | Color         | Packaging Qty |
|----------|--------------|---------------|---------------|
| CGC59102 | 10.3 oz Tube | Aluminum Gray | 12            |
| CGC68111 | 10.3 oz Tube | Clear         | 12            |
| CGC68112 | 10.3 oz Tube | White         | 12            |
| CGC68113 | 10.3 oz Tube | Black         | 12            |



### CONSTRUCTION TRYPOLYMER SEALANT

Geocel 2300® Construction Tripolymer Sealant is a single component, high-performance elastomeric sealant for use in a wide variety of roofing, trim, architectural metal, manufacturing, underdeck system, solar roof system, and general construction applications.

| Part #   | Size         | Color | Packaging Qty |
|----------|--------------|-------|---------------|
| CGC66100 | 10.3 oz Tube | Clear | 24            |
| CGC66101 | 10.3 oz Tube | White | 24            |
| CGC66102 | 10.3 oz Tube | Gray  | 24            |
| CGC66103 | 10.3 oz Tube | Black | 24            |



### PROFESSIONAL GRADE POLYURETHANE SEALANT

Geocel 3300® Professional Grade Polyurethane Sealant is a single-component, high performance polyurethane sealant that withstands adverse weather conditions and cures to a flexible weather-resistant seal.

| Part #   | Size         | Color | Packaging Qty |
|----------|--------------|-------|---------------|
| CGC68101 | 10.1 oz Tube | White | 24            |
| CGC68103 | 10.1 oz Tube | Black | 24            |



### POLYURETHANE BONDING SEALANT

3500™ Polyurethane Bonding Sealant is a urethane sealant that cures to a tough, flexible seal. Manufactured for clay, slate, concrete, and composite roof tiles, it can be used in bonding, beading, and sealing applications. It contains no TDI (toluene diisocyanate).

| Part #   | Size         | Color | Packaging Qty |
|----------|--------------|-------|---------------|
| CGC35102 | 10.1 oz Tube | Gray  | 24            |



# CAULKS & SEALANTS, THREADLOCKERS, SLEEVE RETAINER

## CLEAR SEALANT

Geocel 4300™ Clear Sealant is a high performance, chemically curing sealant that offers excellent adhesion to many substrates including wood, stone, concrete, metal, glass, tile, and brick. Geocel 4300™ Clear Sealant can be used as an interior/exterior sealant, can withstand adverse weather conditions, is UV resistant, and is tolerant to damp surfaces\*. Also, it has minimal shrinkage. (\*Damp surfaces will not interfere with product performance. However, sealant may become cloudy in appearance.)

| Part #   | Size        | Color | Packaging Qty |
|----------|-------------|-------|---------------|
| CGC58000 | 9.5 oz Tube | Clear | 24            |



## THREADLOCKERS

Pro Seal Blue Threadlocker is a medium strength, anaerobic threadlocker for fasteners up to a 3/4" diameter. It is resistant to gas, antifreeze, transmission fluid, and oil. It is removable with hand tools and is resistant to temperatures from -65° F to 300° F. (Anaerobic means it needs to be sealed off from air to harden)

| Part #   | Package Size | Description       | Packaging Qty |
|----------|--------------|-------------------|---------------|
| CPS24206 | 6 ml Bottle  | BLUE THREADLOCKER | 12            |
| CPS24250 | 50 ml Bottle | BLUE THREADLOCKER | 6             |



Pro Seal Red Threadlocker is a high strength, permanent, anaerobic threadlocker. It is resistant to gas, antifreeze, transmission fluid, and oil. It is resistant to temperatures from -65° F to 300° F and must be heated over 300° F to weaken the bond and loosen.

| Part #   | Package Size | Description      | Packaging Qty |
|----------|--------------|------------------|---------------|
| CPS27106 | 6 ml Bottle  | RED THREADLOCKER | 12            |
| CPS27150 | 50 ml Bottle | RED THREADLOCKER | 6             |



## SLEEVE RETAINER

Permatex Sleeve Retainer is an anaerobic adhesive that secures slip and press fit assemblies. It withstands temperatures up to 400° F, adds up to 3000 PSI holding power, and restores fit to worn or out-of-tolerance assemblies.

| Part #  | Package Size | Description     | Packaging Qty |
|---------|--------------|-----------------|---------------|
| CP64000 | 6 ml Tube    | SLEEVE RETAINER | 6             |
| CP64040 | 36 ml Bottle | SLEEVE RETAINER | 6             |



GASKET MAKERS

Pro Seal Blue Silicone Gasket Maker replaces most precut gaskets, will not foul computer sensors, and withstands temperatures from -70° F to 400° F. It resists oil, transmission fluid, water, and antifreeze.

| Part #   | Size      | Description                | Packaging Qty |
|----------|-----------|----------------------------|---------------|
| CPS80006 | 3OZ. TUBE | BLUE SILICONE GASKET MAKER | 12            |



Permatex High Tack Spray-a-Gasket is a fast-drying, all-purpose sealant which dries to a highly tacky, non-brittle film. It can be applied in advance for ease of assembly. It is resistant to gas, oil, antifreeze, kerosene, propane, and butane and withstands temperatures of -65° F to 500° F.

| Part #  | Size             | Description              | Packaging Qty |
|---------|------------------|--------------------------|---------------|
| CP80065 | 9OZ. AEROSOL CAN | HIGH TACK SPRAY-A-GASKET | 12            |



Permatex Super High Tack Gasket Sealant is a non-hardening gasket sealant designed for easy disassembly and for keeping large gaskets in place during positioning and assembly. This “clean hands” formula won’t stain and is resistant to engine fluids including diesel fluid and synthetic oils.

| Part #  | Size    | Description                    | Packaging Qty |
|---------|---------|--------------------------------|---------------|
| CP80060 | 1.75OZ. | Super High Tack Gasket Sealant | 6             |



OEM specified. The original Permatex Blue now with low odor formula. Will not foul oxygen sensors. Replaces almost any cut gasket. Makes reliable “formed-in-place” gaskets that resist cracking, shrinking and migrating. Coats pre-cut gaskets to increase reliability. Temperature range -65°F to 500°F (-54°C to 260°C) intermittent; resists auto and shop fluids. Suitable for all vehicles including EV

| Part #  | Size       | Description                | Packaging Qty |
|---------|------------|----------------------------|---------------|
| CP80628 | 11OZ. Tube | BLUE SILICONE GASKET MAKER | 12            |



Permatex Copper Gasket Spray is a fast-drying, metallic copper sealant. It helps dissipate heat, prevents gasket burnout, and improves heat transfer. It resists all types of automotive fluids and withstands temperatures of -50° F to 500° F.

| Part #  | Size             | Description         | Packaging Qty |
|---------|------------------|---------------------|---------------|
| CP80697 | 9OZ. AEROSOL CAN | COPPER GASKET SPRAY | 12            |



## GASKET MAKERS

Permatex Form-A-Gasket #2 is a slow-drying, non-hardening sealant for aviation and automotive use. It is resistant to gas, oil, and grease and withstands temperatures of -65° F to 400° F.

| Part #  | Size      | Description      | Packaging Qty |
|---------|-----------|------------------|---------------|
| CP80016 | 3OZ. TUBE | FORM-A-GASKET #2 | 12            |



Pro Seal Red Silicone Gasket Maker will not foul computer sensors. It is especially formulated for high temperatures, covering from -70° F to 600° F. It also resists high pressures up to 5,000 PSI. It resists oil, transmission fluid, water, and antifreeze.

| Part #   | Size     | Description               | Packaging Qty |
|----------|----------|---------------------------|---------------|
| CPS80726 | 3OZ TUBE | RED SILICONE GASKET MAKER | 12            |



Pro Seal Black Silicone Gasket Maker forms gaskets in place instantly and dries tough and flexible. It replaces cork, paper, asbestos, and felt precut gaskets and withstands temperatures from -70° F to 400° F. It resists oil, transmission fluid, water, and antifreeze.

| Part #   | Size               | Description                 | Packaging Qty |
|----------|--------------------|-----------------------------|---------------|
| CPS80046 | 3OZ TUBE           | BLACK SILICONE GASKET MAKER | 12            |
| CPS80047 | 10.3OZ. CAULK TUBE | BLACK SILICONE GASKET MAKER | 12            |



Master Black Plus Silicone Gasket Maker is sensor safe, non-corrosive, retains its flexibility, and gives max resistance to oils. It meets OE silicone gasket performance specs and withstands temperatures from -80° F to 600° F intermittent.

| Part #  | Size         | Description                 | Packaging Qty |
|---------|--------------|-----------------------------|---------------|
| CGM15BP | 3.35OZ. TUBE | BLACK SILICONE GASKET MAKER | 12            |



Permatex Ultra Black Silicone Gasket Maker is fast curing, sensor safe, low odor, non-corrosive, vibration resistant, retains flexibility, and gives max resistance to oils. It meets OE silicone gasket performance specs and withstands temperatures from -65° F to 500° F intermittent.

| Part #  | Size             | Description                 | Packaging Qty |
|---------|------------------|-----------------------------|---------------|
| CP82180 | 3.35 oz Tube     | BLACK SILICONE GASKET MAKER | 12            |
| CP24105 | 13 oz Caulk Tube | BLACK SILICONE GASKET MAKER | 12            |



Permatex Ultra Grey Silicone Gasket Maker is sensor safe, low odor, non-corrosive, gives maximum joint movement resistance, and outstanding resistance to oils, cooling and shop fluids. It is eight times more flexible than cork/ composite gaskets. It withstands temperatures from -65° F to 500° F intermittent.

| Part #  | Size             | Description                | Packaging Qty |
|---------|------------------|----------------------------|---------------|
| CP82194 | 3.35OZ. TUBE     | GRAY SILICONE GASKET MAKER | 12            |
| CP82195 | 11OZ. CAULK TUBE | GRAY SILICONE GASKET MAKER | 6             |



Permatex Right Stuff Gasket Maker makes leak proof gaskets and allows you to return equipment to service immediately. It is Permatex' premier instant gasket maker. It is sensor safe, fleet tested, oil, coolant, and shop fluid resistant. Temperature range is -75° F to 500° F intermittent.

| Part #  | Size                            | Description              | Packaging Qty |
|---------|---------------------------------|--------------------------|---------------|
| CP29208 | 5OZ. CAULK TUBE                 | RIGHT STUFF GASKET MAKER | 6             |
| CP99070 | 2 X 5OZ. CAULK TUBE W/CAULK GUN | RIGHT STUFF GASKET MAKER | 4             |
| CP25224 | 7OZ. AEROSOL CAN                | RIGHT STUFF GASKET MAKER | 6             |
| CP33694 | 10.1OZ. CAULK TUBE              | RIGHT STUFF GASKET MAKER | 6             |



Permatex Anaerobic Gasket Maker is a non-corrosive gasketing material designed primarily for use on aluminum, iron, and steel flanged mating surfaces. It fills gaps up to .015" and cures to a solvent resistant seal that will not tear or decay. Disassembly and removal is easy.

| Part #  | Size      | Description            | Packaging Qty |
|---------|-----------|------------------------|---------------|
| CP51813 | 50ML TUBE | ANAEROBIC GASKET MAKER | 6             |



## SEAL-ALL

Seal-All Adhesive adheres to all substrates and materials with superior strength with the exceptions of paper, cardboard, and Styrofoam. It is ideal for automotive and garage repairs and is effective in stopping existing leaks.

| Part # | Package Size | Description | Packaging Qty |
|--------|--------------|-------------|---------------|
| CSAA   | 1 OZ. Tube   | SEAL-ALL    | 12            |





# WEATHERSTRIP ADHESIVE, WEATHERSTRIP, TOOL-CRIB ADHESIVE, ELECTRICAL TAPE

## WEATHERSTRIP ADHESIVE

Weatherstrip Adhesive is a high strength fast drying adhesive which bonds rubber, fabric, vinyl, upholstery, and more. It is resistant to kerosene, water, gas, and antifreeze.

| Part #   | Package Size | Description                          | Packaging Qty |
|----------|--------------|--------------------------------------|---------------|
| CPS88881 | 5 OZ. Tube   | Yellow Weatherstrip Adhesive Proseal | 12            |



## WEATHERSTRIP

### ADHESIVE BACKED - SPONGE

Adhesive Backed Sponge Weatherstrip is a light-weight closed cell sponge material. It is simple to use, simply pull back the liner tape and press onto a clean dry surface. Size is given as thickness X width.

| Part #  | Size       | Roll Length |
|---------|------------|-------------|
| AV04851 | 5/32 X 1/2 | 50'         |



## TOOL-CRIB ADHESIVE

Tool Crib Contractor Grade Adhesive is an all-purpose industrial adhesive for bonding substrate with differing textures. This colorless adhesive has fast tack properties, resists water, and is ideal for tacking on fiberglass insulation. Cleans up easily with lacquer thinner. Not recommended on vinyl plastic or vinyl coated cloth.

| Part # | Seymour Part # | Description               | Packaging Qty |
|--------|----------------|---------------------------|---------------|
| CTCGA  | 620-1538       | Contractor Grade Adhesive | 6             |



## ELECTRICAL TAPE

### VINYL

Electrical Tape is UL approved.

| Part #   | Size       | Color | Sleeve Quantity |
|----------|------------|-------|-----------------|
| ELET3M33 | 3/4" x 52' | Black | 10              |
| TPM23010 | 3/4" x 66' | Black | 10              |
| ELETB    | 3/4" x 66' | Blue  | 10              |
| ELETG    | 3/4" x 66' | Green | 10              |
| ELETR    | 3/4" x 66' | Red   | 10              |
| ELETW    | 3/4" x 66' | White | 10              |



# ELECTRICAL TAPE, PACKAGING TAPE, PACKAGING TAPE GUN, DUCT TAPE

## LIQUID

Liquid Electrical Tape is used to insulate and protect electrical splices and connections. It will not unravel or deteriorate and provides a waterproof coating. Bottles come with a brush-on applicator on the lid.

| Part # | Color | Bottle Size | Case Quantity |
|--------|-------|-------------|---------------|
| ELETLB | Black | 4 OZ.       | 12            |
| ELETLR | Red   | 4 OZ.       | 12            |



## PACKAGING TAPE

### ACRYLIC • CLEAR

| Part #     | Size        | Thickness | Packaging Qty |
|------------|-------------|-----------|---------------|
| TPTA48100V | 2" x 110 yd | 2.44 MIL  | 36            |
| TPTA72100V | 3" x 110 yd | 2.44 MIL  | 24            |



## PACKAGING TAPE GUN

| Part # | Size | Packaging Qty |
|--------|------|---------------|
| TPTD2  | 2"   | 24            |
| TPTD3  | 3"   | 12            |



## DUCT TAPE

### GENERAL PURPOSE • BLACK

| Part #   | Size          | Thickness | Packaging Qty |
|----------|---------------|-----------|---------------|
| TPM21011 | 1.88" x 60 yd | 7.0 MIL   | 36            |



### HEAVY DUTY • SILVER

| Part #   | Size          | Thickness | Packaging Qty |
|----------|---------------|-----------|---------------|
| TPM21020 | 1.88" x 60 yd | 8.8 MIL   | 36            |

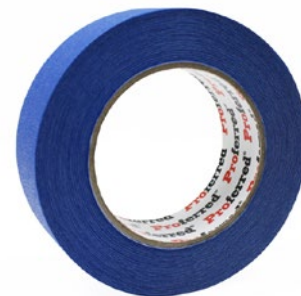




# BLUE PAINTERS TAPE, TEFLON TAPE, STRETCH WRAP, STRETCH WRAP DISPENSERS

## BLUE PAINTERS TAPE

| Part #   | Size          | Thickness | Packaging Qty |
|----------|---------------|-----------|---------------|
| TPM22020 | 1.41" x 60 yd | 5.1 MIL   | 36            |



## TEFLON TAPE

| Part # | Size       | Thickness | Sleeve Quantity |
|--------|------------|-----------|-----------------|
| EQTT   | 1/2 x 520" | 0.0035"   | 10              |



## STRETCH WRAP

3" & 5" Quiet unwinding stiff and strong cast film, superior load holding strength, self-clinging without residue, low cost alternative to tape, twine and strapping. - 18" Great cling and clarity, Ease of use, Quiet release, Great containment, Excellent holding power.

| Part #    | Size        | Thickness | Packaging Qty |
|-----------|-------------|-----------|---------------|
| TSW031080 | 3" x 1000'  | 80G       | 18            |
| TSW051080 | 5" x 1000'  | 80G       | 12            |
| TSW181580 | 18" x 1500' | 80G       | 4             |



If we don't have the stretch wrap you are looking for, call us to check availability.

## STRETCH WRAP DISPENSERS

| Part #  | Description                                            |
|---------|--------------------------------------------------------|
| TSWD3M  | Tension Hand Dispenser for 3" Core (For 3" & 5" rolls) |
| TSWD18M | Tension Dispenser Long Handle for 12"-18" rolls        |
| TSWD18H | Hand Dispenser for 18" Rolls                           |



## O-RINGS

## 1/16 SECTION • BUNA-N • MADE IN USA OR IMPORTED

Buna N O-Rings are a common and simple form of seal. They are designed to be seated in a groove and compressed between two parts and are recommended for use with oil, gas, propane, and water. Size is given as the ID by the OD.



| Part #  | Size         | Discount Quantity |
|---------|--------------|-------------------|
| EQOR203 | 3/32 x 7/32  | 100               |
| EQOR204 | 1/8 x 1/4    | 100               |
| EQOR205 | 5/32 x 9/32  | 100               |
| EQOR206 | 3/16 x 5/16  | 100               |
| EQOR207 | 7/32 x 11/32 | 100               |
| EQOR208 | 1/4 x 3/8    | 100               |
| EQOR210 | 5/16 x 7/16  | 100               |
| EQOR212 | 3/8 x 1/2    | 100               |
| EQOR214 | 7/16 x 9/16  | 100               |

| Part #  | Size           | Discount Quantity |
|---------|----------------|-------------------|
| EQOR216 | 1/2 x 5/8      | 100               |
| EQOR218 | 9/16 x 11/16   | 100               |
| EQOR220 | 5/8 x 3/4      | 100               |
| EQOR222 | 11/16 x 13/16  | 100               |
| EQOR224 | 3/4 x 7/8      | 100               |
| EQOR226 | 13/16 x 15/16  | 100               |
| EQOR228 | 7/8 x 1        | 100               |
| EQOR230 | 15/16 x 1-1/16 | 100               |
| EQOR232 | 1 x 1-1/8      | 100               |

## 3/32 SECTION • BUNA-N • MADE IN USA OR IMPORTED



| Part #  | Size         | Discount Quantity |
|---------|--------------|-------------------|
| EQOR306 | 3/16 x 3/8   | 100               |
| EQOR308 | 1/4 x 7/16   | 100               |
| EQOR310 | 5/16 x 1/2   | 100               |
| EQOR312 | 3/8 x 9/16   | 100               |
| EQOR314 | 7/16 x 5/8   | 100               |
| EQOR316 | 1/2 x 11/16  | 100               |
| EQOR318 | 9/16 x 3/4   | 100               |
| EQOR320 | 5/8 x 13/16  | 100               |
| EQOR322 | 11/16 x 7/8  | 100               |
| EQOR324 | 3/4 x 15/16  | 100               |
| EQOR326 | 13/16 x 1    | 100               |
| EQOR328 | 7/8 x 1-1/16 | 100               |

| Part #  | Size            | Discount Quantity |
|---------|-----------------|-------------------|
| EQOR330 | 15/16 x 1-1/8   | 100               |
| EQOR332 | 1 x 1-3/16      | 100               |
| EQOR334 | 1-1/16 x 1-1/4  | 100               |
| EQOR336 | 1-1/8 x 1-5/16  | 100               |
| EQOR338 | 1-3/16 x 1-3/8  | 100               |
| EQOR340 | 1-1/4 x 1-7/16  | 100               |
| EQOR342 | 1-5/16 x 1-1/2  | 100               |
| EQOR344 | 1-3/8 x 1-9/16  | 100               |
| EQOR346 | 1-7/16 x 1-5/8  | 100               |
| EQOR348 | 1-1/2 x 1-11/16 | 100               |
| EQOR388 | 2-3/4 x 2-15/16 | 100               |

## O-RINGS, O-RING ASSORTMENTS

### 1/8 SECTION • BUNA-N • MADE IN USA OR IMPORTED



| Part #  | Size             | Discount Quantity | Part #   | Size          | Discount Quantity |
|---------|------------------|-------------------|----------|---------------|-------------------|
| EQOR408 | 1/4 x 1/2        | 100               | EQOR448  | 1-1/2 x 1-3/4 | 100               |
| EQOR420 | 5/8 x 7/8        | 100               | EQOR452  | 1-5/8 x 1-7/8 | 100               |
| EQOR424 | 3/4 x 1          | 100               | EQOR456  | 1-3/4 x 2     | 100               |
| EQOR426 | 13/16 x 1-1/16   | 100               | EQOR460  | 1-7/8 x 2-1/8 | 100               |
| EQOR428 | 7/8 x 1-1/8      | 100               | EQOR464  | 2 x 2-1/4     | 100               |
| EQOR430 | 15/16 x 1-3/16   | 100               | EQOR468  | 2-1/8 x 2-3/8 | 100               |
| EQOR432 | 1 x 1-1/4        | 100               | EQOR472  | 2 x 2-1/2     | 100               |
| EQOR434 | 1-1/16 x 1-5/16  | 100               | EQOR480  | 2-1/2 x 2-3/4 | 100               |
| EQOR436 | 1-1/8 x 1-3/8    | 100               | EQOR488  | 2-3/4 x 3     | 100               |
| EQOR438 | 1-3/16 x 1-7/16  | 100               | EQOR496  | 3 x 3-1/4     | 100               |
| EQOR440 | 1-1/4 x 1-1/2    | 100               | EQOR4104 | 3-1/4 x 3-1/2 | 100               |
| EQOR442 | 1-5/16 x 1-9/16  | 100               | EQOR4108 | 3 3/8 x 3 5/8 | 100               |
| EQOR444 | 1-3/8 x 1-5/8    | 100               | EQOR4112 | 3-1/2 x 3-3/4 | 100               |
| EQOR446 | 1-7/16 x 1-11/16 | 100               | EQOR4120 | 3-3/4 x 4     | 100               |

### 3/16 SECTION • BUNA-N • MADE IN USA OR IMPORTED

| Part #  | Size          | Discount Quantity |
|---------|---------------|-------------------|
| EQOR648 | 1-1/2 x 1-7/8 | 100               |
| EQOR652 | 1-5/8 x 2     | 100               |
| EQOR656 | 1-3/4 x 2-1/8 | 100               |
| EQOR660 | 1-7/8 x 2-1/4 | 100               |
| EQOR664 | 2 x 2-3/8     | 100               |
| EQOR668 | 2-1/8 x 2-1/2 | 100               |



## O-RING ASSORTMENTS

| Part #  | Description                                |
|---------|--------------------------------------------|
| EQMORAS | METRIC O-RING ASSORTMENT 419 PC (32 SIZES) |
| EQORAS  | O-RING ASSORTMENT 407 PC (32 SIZES)        |



# Section 8: Safety Supplies



# ABSORBENTS, MBT ABSORBENT MATS

## ABSORBENTS

### FLOOR DRY

Spill Absorbent InstaZorb™ is the most advanced, extremely lightweight and easyto transport absorbent on the market

| Part # | Description                           |
|--------|---------------------------------------|
| CFDC12 | Floor Dry Concentrated Instazorb 12lb |



| Part # | Description                       |
|--------|-----------------------------------|
| CFDD25 | Floor Dry Diatomaceous Earth 25lb |



## MBT ABSORBENT MATS

### UNIVERSAL ABSORBENT MAT PADS • GRAY

| Part #    | Size                 | Density | Discount Qty |
|-----------|----------------------|---------|--------------|
| EQAMGH100 | 15" x 18" (100 Pads) | Heavy   | 4            |
| EQAMGM100 | 15" x 18" (100 Pads) | Medium  | 4            |
| EQAMGL200 | 15" x 18" (200 Pads) | Light   | 4            |



### UNIVERSAL ABSORBENT MAT ROLLS • GRAY

| Part #      | Size                 | Density | Discount Qty |
|-------------|----------------------|---------|--------------|
| EQAMGHR150  | 30" x 150' (1 Roll)  | Heavy   | 4            |
| EQAMGHR150  | 15" x 150' (2 Rolls) | Heavy   | 4            |
| EQAMGMR150  | 30" x 150' (1 Roll)  | Medium  | 4            |
| EQAMGMRS150 | 15" x 150' (2 Rolls) | Medium  | 4            |



## OIL-ONLY ABSORBENT MAT PADS ▪ WHITE

| Part #    | Size                 | Density | Discount Qty |
|-----------|----------------------|---------|--------------|
| EQAMWH100 | 15" x 18" (100 Pads) | Heavy   | 4            |
| EQAMWM100 | 15" x 18" (100 Pads) | Medium  | 4            |
| EQAMWL100 | 15" x 18" (100 Pads) | Light   | 4            |



## OIL-ONLY ABSORBENT MAT PADS ▪ WHITE

| Part #     | Size                 | Density | Discount Qty |
|------------|----------------------|---------|--------------|
| EQAMWHR150 | 30" x 150' (1 Roll)  | Heavy   | 4            |
| EQAMWMR150 | 15" x 150' (2 Rolls) | Medium  | 4            |



## GENERAL PURPOSE DRUM TOPPER ▪ GRAY

| Part #     | Description                              |
|------------|------------------------------------------|
| EQAMDTGP25 | General Purpose Drum Topper - 22" (Gray) |



## DISPOSABLE GLOVES

### X3 INDUSTRIAL BLUE NITRILE GLOVES

| Part #    | Size | Thickness | Box Qty | Case Qty |
|-----------|------|-----------|---------|----------|
| TDGN3BM   | M    | 3 mil     | 100     | 1000     |
| TDGN3BL   | L    | 3 mil     | 100     | 1000     |
| TDGN3BXL  | XL   | 3 mil     | 100     | 1000     |
| TDGN3BXXL | 2XL  | 3 mil     | 100     | 1000     |





## DISPOSABLE GLOVES

### PREMIUM BLACK NITRILE POWDER FREE GLOVES

| Part #    | Size | Thickness | Box Qty | Case Qty |
|-----------|------|-----------|---------|----------|
| TDGN5BM   | M    | 5 mil     | 100     | 1000     |
| TDGN5BL   | L    | 5 mil     | 100     | 1000     |
| TDGN5BXL  | XL   | 5 mil     | 100     | 1000     |
| TDGN5BXXL | 2XL  | 5 mil     | 100     | 1000     |



### GLOVEWORKS HEAVY DUTY ORANGE NITRILE GLOVES

| Part #    | Size | Thickness | Box Qty | Case Qty |
|-----------|------|-----------|---------|----------|
| TDGN8OM   | M    | 8 mil     | 100     | 1000     |
| TDGN8OL   | L    | 8 mil     | 100     | 1000     |
| TDGN8OXL  | XL   | 8 mil     | 100     | 1000     |
| TDGN8OXXL | 2XL  | 8 mil     | 100     | 1000     |



### PROFESSIONAL INDIGO NITRILE POWDER FREE EXAM GLOVES

| Part #  | Size | Thickness | Box Qty | Case Qty |
|---------|------|-----------|---------|----------|
| TDGN3IM | M    | 3 mil     | 100     | 1000     |
| TDGN3IL | L    | 3 mil     | 100     | 1000     |



### GLOVEPLUS HEAVY DUTY LATEX POWDER FREE GLOVES

| Part #    | Size | Thickness | Box Qty | Case Qty |
|-----------|------|-----------|---------|----------|
| TDGL13BM  | M    | 13 mil    | 100     | 500      |
| TDGL13BL  | L    | 13 mil    | 100     | 500      |
| TDGL13BXL | XL   | 13 mil    | 100     | 500      |



## PROFERRED INDUSTRIAL GLOVES

### BLACK NITRILE COATING / GRAY LINER INDUSTRIAL GLOVES

| Part #   | Size | Packaging Qty |
|----------|------|---------------|
| TPM05030 | S    | 6             |
| TPM05031 | M    | 6             |
| TPM05032 | L    | 6             |



### BLUE LATEX COATING / GRAY POLYESTER INDUSTRIAL GLOVES

| Part #   | Size | Packaging Qty |
|----------|------|---------------|
| TPM05025 | S    | 6             |
| TPM05026 | M    | 6             |
| TPM05027 | L    | 6             |
| TPM05028 | XL   | 6             |



### BLACK PU COATING / BLACK NYLON INDUSTRIAL GLOVES

| Part #   | Size | Packaging Qty |
|----------|------|---------------|
| TPM05101 | S    | 6             |
| TPM05102 | M    | 6             |
| TPM05103 | L    | 6             |



## SAFETY GLASSES

### PROFERRED - ANSI Z87.1 COMPLIANT

| Part #   | Description                                | Packaging Qty |
|----------|--------------------------------------------|---------------|
| TPM15100 | Proferred 100 Clear Lens AS Safety Glasses | 12            |
| TPM15200 | Proferred 200 Clear Lens AS Safety Glasses | 12            |
| TPM15202 | Proferred 200 Smoke Lens AS Safety Glasses | 12            |
| TPM15210 | Proferred 210 Clear Lens AS Safety Glasses | 12            |
| TPM15214 | Proferred 210 Amber Lens AS Safety Glasses | 12            |



100 Clear



200 Smoke



210 Amber



# SAFETY GLASSES, EAR PROTECTION, MASKS

## LENS WIPES

| Part #   | Description                                                        | Packaging Qty |
|----------|--------------------------------------------------------------------|---------------|
| TPT99101 | Proferred Lens Cleaning Towelette<br>LCT100 (100 individual packs) | 10            |



## EAR PROTECTION

### FOAM PLUGS

| Part #   | Description                       | Package Qty |
|----------|-----------------------------------|-------------|
| TPM17010 | M17010 PROFERRED PU Foam<br>Plugs | 200         |



### FOAM PLUGS - UNCORDERD - DISPENSER BOX

| Part #       | Description                                                                                              | Package Qty |
|--------------|----------------------------------------------------------------------------------------------------------|-------------|
| TO154-LL-1-D | Disposable Earplugs, Foam<br>Magenta/Yellow Uncorded<br>Dispenser box (Laser Lite) 500 Pair<br>(C04-008) | 500 Pair    |



## MASKS

| Part #    | Description                                                 | Package Qty |
|-----------|-------------------------------------------------------------|-------------|
| TO1428511 | N95 PARTICULATE DISPOSABLE<br>RESPIRATOR WITH VALVE 3M 8511 | 10          |





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