

Bushings – Dimensions



The QD design is the most widely used bushing in the industry. Flanged with an internal keyway and completely split for easy installation. Special tapered surfaces improve grip. Axial movement is virtually eliminated.

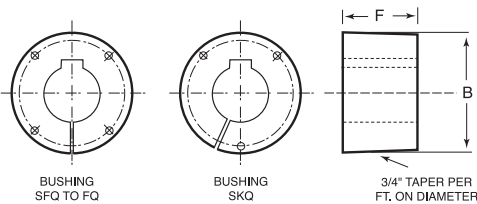
Bushings are designed to transmit the rated torque capacity listed in the table below when the cap screws are tightened as indicated. The bushings are stocked in all popular bore sizes, including metric bores, within the bore range for a particular bushing.

"Q" Series Flangeless Bushings —Torque Ratings and Dimensions

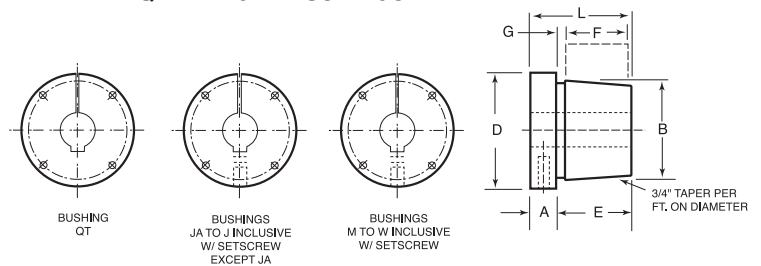
| Bushing | Torque Capacity (in. - lbs.) | Type Material | Max Bore (in.) | Max Bore* (mm) | Dimensions | | Bolt Circle | Capscrews Required | |
|---------|------------------------------|---------------|----------------|----------------|------------|-------|-------------|--------------------|--------------|
| | | | | | B | F | | Quantity | Size |
| SKQ | 7,000 | ductile iron | 1-5/16 | 50 | 2.8125 | 1-1/8 | 2-3/8 | 3 | 1/4 x 1-1/2 |
| SFQ | 11,000 | ductile iron | 2-3/8 | 60 | 3.1250 | 1-1/8 | 2-3/4 | 4 | 1/4 x 1-1/2 |
| EQ | 20,000 | ductile iron | 2-7/8 | 73 | 3.8340 | 1-1/2 | 3-3/8 | 4 | 5/16 x 1-3/4 |
| FQ | 45,000 | ductile iron | 3-1/8 | 80 | 4.3750 | 2-3/8 | 3-3/4 | 4 | 3/8 x 2 |

* Max bore with standard keyseat

"Q" SERIES FLANGELESS



QD FLANGED BUSHINGS



BUSHING DIMENSIONS

| Bushing | A | B | D | L | Bolt Circle Diameter | Weight Range, Pounds | | Cap Screws Required | | Torque Capacity (In.-Lbs.) | G | F |
|---------|-------|--------|--------|---------|----------------------|----------------------|----------|---------------------|----------------|----------------------------|------|--------|
| | | | | | | Max Bore | Min Bore | quantity | size | | | |
| | | | | | | | | | | | | |
| QT | 1/4 | 1.625 | 2-1/2 | 1-1/4 | 2 | 0.2 | 0.5 | 2 | 1/4 X 3/4 | 1,750 | 1/8 | 7/8 |
| JA | 5/16 | 1.375 | 2 | 1 | 1.66 | 0.2 | 0.5 | 3 | 10-24 X 1 | 1,750 | 1/8 | 9/16 |
| SH | 7/16 | 1.871 | 2-5/8 | 1-5/16 | 2.25 | 0.6 | 1.2 | 3 | 1/4 X 1-3/8 | 3,500 | 1/8 | 13/16 |
| SDS | 7/16 | 2.187 | 3-1/8 | 1-5/16 | 2.69 | 0.8 | 1.7 | 3 | 1/4 X 1-3/8 | 5,000 | 1/8 | 3/4 |
| SD | 7/16 | 2.187 | 3-1/8 | 1-13/16 | 2.69 | 0.9 | 2.2 | 3 | 1/4 X 1-7/8 | 5,000 | 1/8 | 1-1/4 |
| SK | 9/16 | 2.812 | 3-7/8 | 1-15/16 | 3.31 | 1.5 | 3.9 | 3 | 5/16 X 2 | 7,000 | 1/8 | 1-1/4 |
| SF | 5/8 | 3.125 | 4-5/8 | 2-1/16 | 3.88 | 2.2 | 5.4 | 3 | 3/8 X 2 | 11,000 | 1/8 | 1-1/4 |
| SFQ | - | 3.125 | - | 1-1/8 | 2-3/4 | 0.9 | 2.1 | 4 | 1/4 x 1-1/2 | 11,000 | - | 1-1/8 |
| SKQ | - | 2.8125 | - | 1-1/8 | 2-3/8 | 0.8 | 1.7 | 3 | 1/4 x 1-1/2 | 7,000 | - | 1-1/8 |
| E | 7/8 | 3.834 | 6 | 2-3/4 | 5 | 5.6 | 11.7 | 3 | 1/2 X 2-3/4 | 20,000 | 1/8 | 1-5/8 |
| EQ | - | 3.834 | - | 1-1/2 | 3-3/8 | 1.8 | 4.1 | 4 | 5/16 x 1-3/4 | 20,000 | - | 1-1/2 |
| F | 1 | 4.437 | 6-5/8 | 3-3/4 | 5.63 | 8.5 | 19.4 | 3 | 9/16 X 3-5/8 | 40,000 | 3/16 | 2-1/2 |
| FQ | - | 4.4375 | - | 2-3/8 | 3-3/4 | 4.6 | 8.5 | 4 | 3/8 x 2 | 45,000 | - | 2-3/8 |
| J | 1-1/8 | 5.145 | 7-1/4 | 4-5/8 | 6.25 | 12.8 | 28.6 | 3 | 5/8 x 4-1/2 | 55,000 | 3/16 | 3-3/16 |
| M | 1-1/4 | 6.496 | 9 | 6-3/4 | 7.88 | 29.5 | 63.4 | 4 | 3/4 X 6-3/4 | 125,000 | 3/16 | 5-3/16 |
| N | 1-1/2 | 6.992 | 10 | 8-1/8 | 8.5 | 46 | 95 | 4 | 7/8 X 8 | 150,000 | 1/4 | 6-1/4 |
| P | 1-3/4 | 8.242 | 11-3/4 | 9-3/8 | 10 | 88 | 178 | 4 | 1 X 9-1/2 | 250,000 | 1/4 | 7-1/4 |
| W | 2 | 10.429 | 15 | 11-3/8 | 12.75 | 155 | 262 | 4 | 1-1/8 X 11-1/2 | 375,000 | 1/4 | 9 |
| S | 2-3/4 | 12.125 | 17-3/4 | 15-1/4 | 15 | 285 | 410 | 5 | 1-1/4 X 15 | 625,000 | 3/8 | 12 |

For complete bushing part number, include a dash and the bore size.

EXAMPLE: SDS-1-1/4 or QT-7/8

Additional bore sizes available but may not be in stock.

NOTE: JA through J bushings are provided with reverse mounting holes. Stock M, N, P, W, and S bushings are **not drilled** for reverse mounting but can be provided on a made to order basis.

- (1) SF bushings with bores 2-3/16" and larger — ductile iron
 - (2) E bushings with bores 2-11/16" and larger — ductile iron
 - (3) F bushings with bores 3-3/16" and larger — ductile iron
 - (4) J bushings with bores 3-11/16" and larger — ductile iron
 - (5) Minimum plain bore and Flangeless bushings are unsplit.
- * "Q" Series Flangeless Bushings

Bushings – Bore & Keyseat Dimensions



Bushings are available from stock with all the bores and keyseats listed below. In some cases, as the bore increases in diameter, a shallow keyseat is provided—due to insufficient metal thickness. When this occurs, the correct rectangular key to suit is furnished at no charge. This does not affect the ability of the bushing to transmit the load. The rectangular key, also called a flat key, fits into the standard keyway in the shaft.

MPB bushings are unsplit

| Bushing Part Number | Stock Bores (Inches) | Keyseat | Approx. Weight (lbs.) |
|---------------------|----------------------|---------|-----------------------|
|---------------------|----------------------|---------|-----------------------|

QT BUSHINGS

| | | | |
|-----------|--------|-------------|-----|
| QT-7/16 | 7/16 | no keyseat | 0.6 |
| QT-1/2 | 1/2 | 1/8 x 1/16 | 0.6 |
| QT-9/16 | 9/16 | 1/8 x 1/16 | 0.6 |
| QT-5/8 | 5/8 | 3/16 x 3/32 | 0.6 |
| QT-11/16 | 11/16 | 3/16 x 3/32 | 0.6 |
| QT-3/4 | 3/4 | 3/16 x 3/32 | 0.6 |
| QT-13/16 | 13/16 | 3/16 x 3/32 | 0.6 |
| QT-7/8 | 7/8 | 3/16 x 3/32 | 0.6 |
| QT-15/16 | 15/16 | 1/4 x 1/8 | 0.6 |
| QT-1 | 1 | 1/4 x 1/8 | 0.6 |
| QT-1-1/16 | 1-1/16 | 1/4 x 1/8 | 0.6 |
| QT-1-1/8 | 1-1/8 | 1/4 x 1/8 | 0.6 |
| QT-1-3/16 | 1-3/16 | 1/4 x 1/8 | 0.6 |
| QT-1-1/4 | 1-1/4 | 1/4 x 1/8 | 0.6 |
| QT-1-5/16 | 1-5/16 | 5/16 x 1/16 | 0.6 |
| QT-1-3/8 | 1-3/8 | 5/16 x 1/16 | 0.6 |
| QT-1-7/16 | 1-7/16 | 3/8 x 1/16 | 0.6 |

JA BUSHINGS

| | | | |
|-----------|--------|-------------|-----|
| JA-1/2 | 1/2 | no keyseat | 0.8 |
| JA-1/2 | 1/2 | 1/8 x 1/16 | 0.8 |
| JA-9/16 | 9/16 | 1/8 x 1/16 | 0.8 |
| JA-5/8 | 5/8 | 3/16 x 3/32 | 0.8 |
| JA-11/16 | 11/16 | 3/16 x 3/32 | 0.8 |
| JA-3/4 | 3/4 | 3/16 x 3/32 | 0.8 |
| JA-13/16 | 13/16 | 3/16 x 3/32 | 0.8 |
| JA-7/8 | 7/8 | 3/16 x 3/32 | 0.8 |
| JA-15/16 | 15/16 | 1/4 x 1/8 | 0.8 |
| JA-1 | 1 | 1/4 x 1/8 | 0.8 |
| JA-1-1/16 | 1-1/16 | 1/4 x 1/16 | 0.8 |
| JA-1-1/8 | 1-1/8 | 1/4 x 1/16 | 0.8 |
| JA-1-3/16 | 1-3/16 | 1/4 x 1/16 | 0.8 |
| JA-1-1/4 | 1-1/4 | 1/4 x 1/32 | 0.8 |

SH BUSHINGS

| | | | |
|-----------|--------|-------------|-----|
| SH-7/16 | 7/16 | no keyseat | 1.1 |
| SH-1/2 | 1/2 | 1/8 x 1/16 | 1.1 |
| SH-9/16 | 9/16 | 1/8 x 1/16 | 1.1 |
| SH-5/8 | 5/8 | 3/16 x 3/32 | 1.1 |
| SH-11/16 | 11/16 | 3/16 x 3/32 | 1.0 |
| SH-3/4 | 3/4 | 3/16 x 3/32 | 1.0 |
| SH-13/16 | 13/16 | 3/16 x 3/32 | 1.0 |
| SH-7/8 | 7/8 | 3/16 x 3/32 | 1.0 |
| SH-15/16 | 15/16 | 1/4 x 1/8 | 1.0 |
| SH-1 | 1 | 1/4 x 1/8 | 0.9 |
| SH-1-1/16 | 1-1/16 | 1/4 x 1/8 | 0.9 |
| SH-1-1/8 | 1-1/8 | 1/4 x 1/8 | 0.9 |
| SH-1-3/16 | 1-3/16 | 1/4 x 1/8 | 0.8 |

| Bushing Part Number | Stock Bores (Inches) | Keyseat | Approx. Weight (lbs.) |
|---------------------|----------------------|---------|-----------------------|
|---------------------|----------------------|---------|-----------------------|

SH BUSHINGS

| | | | |
|------------|---------|-------------|-----|
| SH-1-1/4 | 1-1/4 | 1/4 x 1/8 | 0.8 |
| SH-1-5/16 | 1-5/16 | 5/16 x 5/32 | 0.7 |
| SH-1-3/8 | 1-3/8 | 5/16 x 5/32 | 0.7 |
| SH-1-7/16 | 1-7/16 | 3/8 x 1/16 | 0.7 |
| SH-1-1/2 | 1-1/2 | 3/8 x 1/16 | 0.6 |
| SH-1-9/16 | 1-9/16 | 3/8 x 1/16 | 0.6 |
| SH-1-5/8 | 1-5/8 | 3/8 x 1/16 | 0.5 |
| SH-1-11/16 | 1-11/16 | no keyseat | 0.5 |

SDS BUSHINGS

| | | | |
|-------------|---------|-------------|-----|
| SDS-7/16 | 7/16 | no keyseat | 1.7 |
| SDS-1/2 | 1/2 | 1/8 x 1/16 | 1.7 |
| SDS-9/16 | 9/16 | 1/8 x 1/16 | 1.7 |
| SDS-5/8 | 5/8 | 3/16 x 3/32 | 1.6 |
| SDS-11/16 | 11/16 | 3/16 x 3/32 | 1.6 |
| SDS-3/4 | 3/4 | 3/16 x 3/32 | 1.6 |
| SDS-13/16 | 13/16 | 3/16 x 3/32 | 1.6 |
| SDS-7/8 | 7/8 | 3/16 x 3/32 | 1.5 |
| SDS-15/16 | 15/16 | 1/4 x 1/8 | 1.5 |
| SDS-1 | 1 | 1/4 x 1/8 | 1.5 |
| SDS-1-11/16 | 1-1/16 | 1/4 x 1/8 | 1.4 |
| SDS-1-1/8 | 1-1/8 | 1/4 x 1/8 | 1.4 |
| SDS-1-3/16 | 1-3/16 | 1/4 x 1/8 | 1.4 |
| SDS-1-1/4 | 1-1/4 | 1/4 x 1/8 | 1.3 |
| SDS-1-5/16 | 1-5/16 | 5/16 x 5/32 | 1.3 |
| SDS-1-3/8 | 1-3/8 | 5/16 x 5/32 | 1.2 |
| SDS-1-3/8 | 1-3/8 | 3/8 x 3/16 | 1.2 |
| SDS-1-7/16 | 1-7/16 | 3/8 x 3/16 | 1.2 |
| SDS-1-1/2 | 1-1/2 | 3/8 x 3/16 | 1.1 |
| SDS-1-9/16 | 1-9/16 | 3/8 x 3/16 | 1.1 |
| SDS-1-5/8 | 1-5/8 | 3/8 x 3/16 | 1.0 |
| SDS-1-11/16 | 1-11/16 | 3/8 x 3/16 | 1.0 |
| SDS-1-3/4 | 1-3/4 | 3/8 x 1/8 | 1.0 |
| SDS-1-13/16 | 1-13/16 | 1/2 x 1/8 | 0.9 |
| SDS-1-7/8 | 1-7/8 | 1/2 x 1/16 | 0.9 |
| SDS-1-15/16 | 1-15/16 | 1/2 x 1/16 | 0.8 |
| SDS-2 | 2 | no keyseat | 0.7 |

SD BUSHINGS

| | | | |
|----------|-------|-------------|-----|
| SD-7/16 | 7/16 | no keyseat | 2.1 |
| SD-1/2 | 1/2 | 1/8 x 1/16 | 2.1 |
| SD-9/16 | 9/16 | 1/8 x 1/16 | 2.1 |
| SD-5/8 | 5/8 | 3/16 x 3/32 | 2.1 |
| SD-11/16 | 11/16 | 3/16 x 3/32 | 2.0 |
| SD-3/4 | 3/4 | 3/16 x 3/32 | 2.0 |
| SD-13/16 | 13/16 | 3/16 x 3/32 | 2.0 |
| SD-7/8 | 7/8 | 3/16 x 3/32 | 1.9 |
| SD-15/16 | 15/16 | 1/4 x 1/8 | 1.9 |

| Bushing Part Number | Stock Bores (Inches) | Keyseat | Approx. Weight (lbs.) |
|---------------------|----------------------|---------|-----------------------|
|---------------------|----------------------|---------|-----------------------|

SD BUSHINGS

| | | | |
|------------|---------|-------------|-----|
| SD-1 | 1 | 1/4 x 1/8 | 1.8 |
| SD-1-1/16 | 1-1/16 | 1/4 x 1/8 | 1.8 |
| SD-1-1/8 | 1-1/8 | 1/4 x 1/8 | 1.7 |
| SD-1-3/16 | 1-3/16 | 1/4 x 1/8 | 1.7 |
| SD-1-1/4 | 1-1/4 | 1/4 x 1/8 | 1.6 |
| SD-1-5/16 | 1-5/16 | 5/16 x 5/32 | 1.6 |
| SD-1-3/8 | 1-3/8 | 5/16 x 5/32 | 1.5 |
| SD-1-3/8 | 1-3/8 | 3/8 x 3/16 | 1.5 |
| SD-1-7/16 | 1-7/16 | 3/8 x 3/16 | 1.4 |
| SD-1-1/2 | 1-1/2 | 3/8 x 3/16 | 1.4 |
| SD-1-9/16 | 1-9/16 | 3/8 x 3/16 | 1.3 |
| SD-1-5/8 | 1-5/8 | 3/8 x 3/16 | 1.2 |
| SD-1-11/16 | 1-11/16 | 3/8 x 3/16 | 1.2 |
| SD-1-3/4 | 1-3/4 | 3/8 x 1/8 | 1.1 |
| SD-1-13/16 | 1-13/16 | 1/2 x 1/8 | 1.1 |
| SD-1-7/8 | 1-7/8 | 1/2 x 1/16 | 1.0 |
| SD-1-15/16 | 1-15/16 | 1/2 x 1/16 | 0.9 |
| SD-2 | 2 | no keyseat | 0.8 |

SK BUSHINGS

| | | | |
|------------|---------|-------------|-----|
| SK-7/16 | 7/16 | no keyseat | 3.6 |
| SK-1/2 | 1/2 | 1/8 x 1/16 | 3.6 |
| SK-9/16 | 9/16 | 1/8 x 1/16 | 3.6 |
| SK-5/8 | 5/8 | 3/16 x 3/32 | 3.6 |
| SK-11/16 | 11/16 | 3/16 x 3/32 | 3.5 |
| SK-3/4 | 3/4 | 3/16 x 3/32 | 3.5 |
| SK-13/16 | 13/16 | 3/16 x 3/32 | 3.5 |
| SK-7/8 | 7/8 | 3/16 x 3/32 | 3.4 |
| SK-15/16 | 15/16 | 1/4 x 1/8 | 3.4 |
| SK-1 | 1 | 1/4 x 1/8 | 3.3 |
| SK-1-1/16 | 1-1/16 | 1/4 x 1/8 | 3.3 |
| SK-1-1/8 | 1-1/8 | 1/4 x 1/8 | 3.2 |
| SK-1-3/16 | 1-3/16 | 1/4 x 1/8 | 3.2 |
| SK-1-1/4 | 1-1/4 | 1/4 x 1/8 | 3.1 |
| SK-1-5/16 | 1-5/16 | 5/16 x 5/32 | 3.1 |
| SK-1-5/16 | 1-5/16 | 3/8 x 3/16 | 3.1 |
| SK-1-3/8 | 1-3/8 | 5/16 x 5/32 | 3.0 |
| SK-1-3/8 | 1-3/8 | 3/8 x 3/16 | 3.0 |
| SK-1-7/16 | 1-7/16 | 3/8 x 3/16 | 2.9 |
| SK-1-1/2 | 1-1/2 | 3/8 x 3/16 | 2.9 |
| SK-1-9/16 | 1-9/16 | 3/8 x 3/16 | 2.8 |
| SK-1-5/8 | 1-5/8 | 3/8 x 3/16 | 2.7 |
| SK-1-11/16 | 1-11/16 | 3/8 x 3/16 | 2.6 |
| SK-1-3/4 | 1-3/4 | 3/8 x 3/16 | 2.5 |
| SK-1-3/4 | 1-3/4 | 1/2 x 1/4 | 2.5 |
| SK-1-13/16 | 1-13/16 | 1/2 x 1/4 | 2.4 |
| SK-1-7/8 | 1-7/8 | 1/2 x 1/4 | 2.4 |

Bushings – Bore & Keyseat Dimensions



| Bushing Part Number | Stock Bores (Inches) | Keyseat | Approx. Weight (lbs.) |
|---------------------|----------------------|---------|-----------------------|
|---------------------|----------------------|---------|-----------------------|

SK BUSHINGS

| | | | |
|------------|---------|------------|-----|
| SK-1-15/16 | 1-15/16 | 1/2 x 1/4 | 2.3 |
| SK-2 | 2 | 1/2 x 1/4 | 2.2 |
| SK-2-1/16 | 2-1/16 | 1/2 x 1/4 | 2.1 |
| SK-2-1/8 | 2-1/8 | 1/2 x 1/4 | 2.0 |
| SK-2-3/16 | 2-3/16 | 1/2 x 1/8 | 2.0 |
| SK-2-1/4 | 2-1/4 | 1/2 x 1/8 | 1.9 |
| SK-2-1/4 | 2-1/4 | 5/8 x 1/8 | 1.9 |
| SK-2-5/16 | 2-5/16 | 5/8 x 1/16 | 1.8 |
| SK-2-3/8 | 2-3/8 | 5/8 x 1/16 | 1.7 |
| SK-2-7/16 | 2-7/16 | 5/8 x 1/16 | 1.6 |
| SK-2-1/2 | 2-1/2 | 5/8 x 1/16 | 1.5 |
| SK-2-9/16 | 2-9/16 | no keyseat | 1.3 |
| SK-2-5/8 | 2-5/8 | no keyseat | 1.1 |

SF BUSHINGS

| | | | |
|------------|---------|-------------|-----|
| SF-1/2 | 1/2 | no keyseat | 5.1 |
| SF-1/2 | 1/2 | 1/8 x 1/16 | 5.1 |
| SF-5/8 | 5/8 | 3/16 x 3/32 | 5.0 |
| SF-3/4 | 3/4 | 3/16 x 3/32 | 5.0 |
| SF-7/8 | 7/8 | 3/16 x 3/32 | 4.9 |
| SF-15/16 | 15/16 | 1/4 x 1/8 | 4.8 |
| SF-1-1/16 | 1-1/16 | 1/4 x 1/8 | 4.7 |
| SF-1-1/8 | 1-1/8 | 1/4 x 1/8 | 4.7 |
| SF-1-3/16 | 1-3/16 | 1/4 x 1/8 | 4.6 |
| SF-1-1/4 | 1-1/4 | 1/4 x 1/8 | 4.5 |
| SF-1-5/16 | 1-5/16 | 5/16 x 5/32 | 4.5 |
| SF-1-3/8 | 1-3/8 | 5/16 x 5/32 | 4.4 |
| SF-1-3/8 | 1-3/8 | 3/8 x 3/16 | 4.4 |
| SF-1-7/16 | 1-7/16 | 3/8 x 3/16 | 4.3 |
| SF-1-1/2 | 1-1/2 | 3/8 x 3/16 | 4.2 |
| SF-1-9/16 | 1-9/16 | 3/8 x 3/16 | 4.2 |
| SF-1-5/8 | 1-5/8 | 3/8 x 3/16 | 4.1 |
| SF-1-11/16 | 1-11/16 | 3/8 x 3/16 | 4.0 |
| SF-1-3/4 | 1-3/4 | 3/8 x 3/16 | 3.9 |
| SF-1-13/16 | 1-13/16 | 1/2 x 1/4 | 3.8 |
| SF-1-7/8 | 1-7/8 | 1/2 x 1/4 | 3.7 |
| SF-1-15/16 | 1-15/16 | 1/2 x 1/4 | 3.6 |
| SF-2 | 2 | 1/2 x 1/4 | 3.5 |
| SF-2-1/16 | 2-1/16 | 1/2 x 1/4 | 3.4 |
| SF-2-1/8 | 2-1/8 | 1/2 x 1/4 | 3.3 |
| SF-2-3/16 | 2-3/16 | 1/2 x 1/4 | 3.2 |
| SF-2-1/4 | 2-1/4 | 1/2 x 1/4 | 3.1 |
| SF-2-1/4 | 2-1/4 | 5/8 x 5/16 | 3.1 |
| SF-2-5/16 | 2-5/16 | 5/8 x 3/16 | 3.1 |
| SF-2-3/8 | 2-3/8 | 5/8 x 3/16 | 3.0 |
| SF-2-7/16 | 2-7/16 | 5/8 x 3/16 | 2.9 |
| SF-2-1/2 | 2-1/2 | 5/8 x 3/16 | 2.8 |
| SF-2-9/16 | 2-9/16 | 5/8 x 1/16 | 2.6 |
| SF-2-5/8 | 2-5/8 | 5/8 x 1/16 | 2.5 |
| SF-2-11/16 | 2-11/16 | 5/8 x 1/16 | 2.4 |
| SF-2-3/4 | 2-3/4 | 5/8 x 1/16 | 2.2 |
| SF-2-7/8 | 2-7/8 | 3/4 x 1/16 | 1.8 |

| Bushing Part Number | Stock Bores (Inches) | Keyseat | Approx. Weight (lbs.) |
|---------------------|----------------------|---------|-----------------------|
|---------------------|----------------------|---------|-----------------------|

SF BUSHINGS

| | | | |
|------------|---------|------------|-----|
| SF-2-15/16 | 2-15/16 | 3/4 x 1/32 | 1.7 |
|------------|---------|------------|-----|

E BUSHINGS

| | | | |
|-----------|---------|-------------|------|
| E-7/8 | 7/8 | no keyseat | 10.8 |
| E-7/8 | 7/8 | 3/16 x 3/32 | 10.8 |
| E-15/16 | 15/16 | 1/4 x 1/8 | 10.8 |
| E-15/16 | 1 | 1/4 x 1/8 | 10.7 |
| E-1-1/8 | 1-1/8 | 1/4 x 1/8 | 10.6 |
| E-1-3/16 | 1-3/16 | 1/4 x 1/8 | 10.5 |
| E-1-1/4 | 1-1/4 | 1/4 x 1/8 | 10.4 |
| E-1-15/16 | 1-15/16 | 5/16 x 5/32 | 10.3 |
| E-1-3/8 | 1-3/8 | 5/16 x 5/32 | 10.2 |
| E-1-3/8 | 1-3/8 | 3/8 x 3/16 | 10.2 |
| E-1-7/16 | 1-7/16 | 3/8 x 3/16 | 10.1 |
| E-1-1/2 | 1-1/2 | 3/8 x 3/16 | 10.0 |
| E-1-9/16 | 1-9/16 | 3/8 x 3/16 | 9.9 |
| E-1-5/8 | 1-5/8 | 3/8 x 3/16 | 9.8 |
| E-1-11/16 | 1-11/16 | 3/8 x 3/16 | 9.7 |
| E-1-3/4 | 1-3/4 | 3/8 x 3/16 | 9.6 |
| E-1-13/16 | 1-13/16 | 1/2 x 1/4 | 9.4 |
| E-1-7/8 | 1-7/8 | 1/2 x 1/4 | 9.3 |
| E-1-15/16 | 1-15/16 | 1/2 x 1/4 | 9.2 |
| E-2 | 2 | 1/2 x 1/4 | 9.0 |
| E-2-1/16 | 2-1/16 | 1/2 x 1/4 | 8.9 |
| E-2-1/8 | 2-1/8 | 1/2 x 1/4 | 8.8 |
| E-2-3/16 | 2-3/16 | 1/2 x 1/4 | 8.6 |
| E-2-1/4 | 2-1/4 | 1/2 x 1/4 | 8.5 |
| E-2-1/4 | 2-1/4 | 5/8 x 5/16 | 8.5 |
| E-2-5/16 | 2-5/16 | 5/8 x 5/16 | 8.3 |
| E-2-3/8 | 2-3/8 | 5/8 x 5/16 | 8.1 |
| E-2-7/16 | 2-7/16 | 5/8 x 5/16 | 8.0 |
| E-2-1/2 | 2-1/2 | 5/8 x 5/16 | 7.8 |
| E-2-9/16 | 2-9/16 | 5/8 x 5/16 | 7.6 |
| E-2-5/8 | 2-5/8 | 5/8 x 5/16 | 7.5 |
| E-2-11/16 | 2-11/16 | 5/8 x 5/16 | 7.3 |
| E-2-3/4 | 2-3/4 | 5/8 x 5/16 | 7.1 |
| E-2-13/16 | 2-13/16 | 3/4 x 3/8 | 7.2 |
| E-2-7/8 | 2-7/8 | 3/4 x 3/8 | 7.1 |
| E-2-15/16 | 2-15/16 | 3/4 x 1/8 | 6.9 |
| E-3 | 3 | 3/4 x 1/8 | 6.7 |
| E-3-1/8 | 3-1/8 | 3/4 x 1/8 | 6.3 |
| E-3-3/16 | 3-3/16 | 3/4 x 1/8 | 6.0 |
| E-3-1/4 | 3-1/4 | 3/4 x 1/8 | 5.8 |
| E-3-5/16 | 3-5/16 | 7/8 x 1/16 | 5.7 |
| E-3-3/8 | 3-3/8 | 7/8 x 1/16 | 5.5 |
| E-3-7/16 | 3-7/16 | 7/8 x 1/16 | 5.2 |
| E-3-1/2 | 3-1/2 | 7/8 x 1/16 | 4.7 |

F BUSHINGS

| | | | |
|----------|--------|------------|------|
| F-1 | 1 | no keyseat | 17.9 |
| F-1 | 1 | 1/4 x 1/8 | 17.9 |
| F-1-1/8 | 1-1/8 | 1/4 x 1/8 | 17.7 |
| F-1-3/16 | 1-3/16 | 1/4 x 1/8 | 17.6 |

| Bushing Part Number | Stock Bores (Inches) | Keyseat | Approx. Weight (lbs.) |
|---------------------|----------------------|---------|-----------------------|
|---------------------|----------------------|---------|-----------------------|

F BUSHINGS

| | | | |
|-----------|---------|-------------|------|
| F-1-1/4 | 1-1/4 | 1/4 x 1/8 | 17.5 |
| F-1-3/8 | 1-3/8 | 5/16 x 5/32 | 17.2 |
| F-1-7/16 | 1-7/16 | 3/8 x 3/16 | 17.1 |
| F-1-1/2 | 1-1/2 | 3/8 x 3/16 | 16.9 |
| F-1-9/16 | 1-9/16 | 3/8 x 3/16 | 16.8 |
| F-1-5/8 | 1-5/8 | 3/8 x 3/16 | 16.7 |
| F-1-3/4 | 1-3/4 | 3/8 x 3/16 | 16.3 |
| F-1-7/8 | 1-7/8 | 1/2 x 1/4 | 16.0 |
| F-1-15/16 | 1-15/16 | 1/2 x 1/4 | 15.8 |
| F-2 | 2 | 1/2 x 1/4 | 15.6 |
| F-2-1/16 | 2-1/16 | 1/2 x 1/4 | 15.4 |
| F-2-1/8 | 2-1/8 | 1/2 x 1/4 | 15.2 |
| F-2-3/16 | 2-3/16 | 1/2 x 1/4 | 15.0 |
| F-2-5/16 | 2-5/16 | 5/8 x 5/16 | 14.5 |
| F-2-3/8 | 2-3/8 | 5/8 x 5/16 | 14.3 |
| F-2-7/16 | 2-7/16 | 5/8 x 5/16 | 14.1 |
| F-2-1/2 | 2-1/2 | 5/8 x 5/16 | 13.9 |
| F-2-9/16 | 2-9/16 | 5/8 x 5/16 | 13.7 |
| F-2-5/8 | 2-5/8 | 5/8 x 5/16 | 13.4 |
| F-2-11/16 | 2-11/16 | 5/8 x 5/16 | 13.2 |
| F-2-3/4 | 2-3/4 | 5/8 x 5/16 | 12.9 |
| F-2-13/16 | 2-13/16 | 3/4 x 3/8 | 12.6 |
| F-2-7/8 | 2-7/8 | 3/4 x 3/8 | 12.3 |
| F-2-15/16 | 2-15/16 | 3/4 x 3/8 | 12.1 |
| F-3 | 3 | 3/4 x 3/8 | 11.8 |
| F-3-1/8 | 3-1/8 | 3/4 x 3/8 | 11.2 |
| F-3-3/16 | 3-3/16 | 3/4 x 3/8 | 10.9 |
| F-3-1/4 | 3-1/4 | 3/4 x 3/8 | 10.6 |
| F-3-5/16 | 3-5/16 | 7/8 x 3/16 | 11.0 |
| F-3-3/8 | 3-3/8 | 7/8 x 3/16 | 10.6 |
| F-3-7/16 | 3-7/16 | 7/8 x 3/16 | 10.3 |
| F-3-1/2 | 3-1/2 | 7/8 x 3/16 | 10.0 |
| F-3-5/8 | 3-5/8 | 7/8 x 3/16 | 9.4 |
| F-3-11/16 | 3-11/16 | 7/8 x 3/16 | 9.0 |
| F-3-3/4 | 3-3/4 | 7/8 x 3/16 | 8.7 |
| F-3-7/8 | 3-7/8 | 1 x 1/8 | 8.1 |
| F-3-15/16 | 3-15/16 | 1 x 1/8 | 7.7 |
| F-4 | 4 | no keyseat | 6.9 |

J BUSHINGS

| | | | |
|-----------|---------|------------|------|
| J-1-7/16 | 1-7/16 | no keyseat | 28.1 |
| J-1-7/16 | 1-7/16 | 3/8 x 3/16 | 28.1 |
| J-1-1/2 | 1-1/2 | 3/8 x 3/16 | 28.0 |
| J-1-9/16 | 1-9/16 | 3/8 x 3/16 | 27.8 |
| J-1-11/16 | 1-11/16 | 3/8 x 3/16 | 27.4 |
| J-1-3/4 | 1-3/4 | 3/8 x 3/16 | 27.2 |
| J-1-7/8 | 1-7/8 | 1/2 x 1/4 | 26.7 |
| J-1-15/16 | 1-15/16 | 1/2 x 1/4 | 26.5 |
| J-2 | 2 | 1/2 x 1/4 | 26.3 |
| J-2-1/8 | 2-1/8 | 1/2 x 1/4 | 25.8 |
| J-2-3/16 | 2-3/16 | 1/2 x 1/4 | 25.6 |
| J-2-1/4 | 2-1/4 | 1/2 x 1/4 | 25.3 |

| Bushing Part Number | Stock Bores (Inches) | Keyseat | Approx. Weight (lbs.) |
|---------------------|----------------------|---------|-----------------------|
|---------------------|----------------------|---------|-----------------------|

J BUSHINGS

| | | | |
|-----------|---------|------------|------|
| J-2-5/16 | 2-5/16 | 5/8 x 5/16 | 25.0 |
| J-2-3/8 | 2-3/8 | 5/8 x 5/16 | 24.7 |
| J-2-7/16 | 2-7/16 | 5/8 x 5/16 | 24.5 |
| J-2-1/2 | 2-1/2 | 5/8 x 5/16 | 24.2 |
| J-2-5/8 | 2-5/8 | 5/8 x 5/16 | 23.6 |
| J-2-11/16 | 2-11/16 | 5/8 x 5/16 | 23.3 |
| J-2-3/4 | 2-3/4 | 5/8 x 5/16 | 23.0 |
| J-2-7/8 | 2-7/8 | 3/4 x 3/8 | 22.2 |
| J-2-15/16 | 2-15/16 | 3/4 x 3/8 | 21.9 |
| J-3 | 3 | 3/4 x 3/8 | 21.6 |
| J-3-1/8 | 3-1/8 | 3/4 x 3/8 | 20.9 |
| J-3-3/16 | 3-3/16 | 3/4 x 3/8 | 20.5 |
| J-3-1/4 | 3-1/4 | 3/4 x 3/8 | 20.1 |
| J-3-5/16 | 3-5/16 | 7/8 x 7/16 | 19.6 |
| J-3-3/8 | 3-3/8 | 7/8 x 7/16 | 19.3 |
| J-3-7/16 | 3-7/16 | 7/8 x 7/16 | 18.9 |
| J-3-1/2 | 3-1/2 | 7/8 x 7/16 | 18.5 |
| J-3-5/8 | 3-5/8 | 7/8 x 7/16 | 17.7 |
| J-3-11/16 | 3-11/16 | 7/8 x 7/16 | 17.2 |
| J-3-3/4 | 3-3/4 | 7/8 x 7/16 | 16.8 |
| J-3-3/16 | 3-13/16 | 1 x 1/2 | 17.4 |
| J-3-7/8 | 3-7/8 | 1 x 3/8 | 17.0 |
| J-3-15/16 | 3-15/16 | 1 x 3/8 | 16.5 |
| J-4 | 4 | 1 x 1/8 | 16.1 |
| J-4-1/8 | 4-1/8 | 1 x 1/8 | 15.2 |
| J-4-3/16 | 4-3/16 | 1 x 1/8 | 14.7 |
| J-4-1/4 | 4-1/4 | 1 x 1/8 | 14.2 |
| J-4-3/8 | 4-3/8 | 1 x 1/8 | 13.2 |
| J-4-7/16 | 4-7/16 | 1 x 1/8 | 12.7 |
| J-4-1/2 | 4-1/2 | 1 x 1/8 | 12.2 |

M BUSHINGS

| | | | |
|-----------|---------|------------|------|
| M-1-15/16 | 1-15/16 | 1/2 x 1/4 | 63.7 |
| M-2 | 2 | 1/2 x 1/4 | 63.3 |
| M-2-3/16 | 2-3/16 | 1/2 x 1/4 | 62.3 |
| M-2-1/4 | 2-1/4 | 1/2 x 1/4 | 61.9 |
| M-2-3/8 | 2-3/8 | 5/8 x 5/16 | 61.0 |
| M-2-7/16 | 2-7/16 | 5/8 x 5/16 | 60.6 |
| M-2-1/2 | 2-1/2 | 5/8 x 5/16 | 60.1 |
| M-2-5/8 | 2-5/8 | 5/8 x 5/16 | 59.3 |
| M-2-11/16 | 2-11/16 | 5/8 x 5/16 | 58.8 |
| M-2-3/4 | 2-3/4 | 5/8 x 5/16 | 58.3 |
| M-2-7/8 | 2-7/8 | 3/4 x 3/8 | 57.2 |
| M-2-15/16 | 2-15/16 | 3/4 x 3/8 | 56.7 |
| M-3 | 3 | 3/4 x 3/8 | 56.2 |
| M-3-1/8 | 3-1/8 | 3/4 x 3/8 | 55.2 |
| M-3-3/16 | 3-3/16 | 3/4 x 3/8 | 54.6 |
| M-3-1/4 | 3-1/4 | 3/4 x 3/8 | 54.1 |
| M-3-3/8 | 3-3/8 | 7/8 x 7/16 | 52.8 |
| M-3-7/16 | 3-7/16 | 7/8 x 7/16 | 52.2 |
| M-3-1/2 | 3-1/2 | 7/8 x 7/16 | 51.6 |
| M-3-5/8 | 3-5/8 | 7/8 x 7/16 | 50.4 |

| Bushing Part Number | Stock Bores (Inches) | Keyseat | Approx. Weight (lbs.) |
|---------------------|----------------------|---------|-----------------------|
|---------------------|----------------------|---------|-----------------------|

M BUSHINGS

| | | | |
|-----------|---------|-------------|------|
| M-3-11/16 | 3-11/16 | 7/8 x 7/16 | 49.7 |
| M-3-3/4 | 3-3/4 | 7/8 x 7/16 | 49.1 |
| M-3-7/8 | 3-7/8 | 1 x 1/2 | 47.6 |
| M-3-15/16 | 3-15/16 | 1 x 1/2 | 46.9 |
| M-4 | 4 | 1 x 1/2 | 46.2 |
| M-4-1/8 | 4-1/8 | 1 x 1/2 | 44.8 |
| M-4-3/16 | 4-3/16 | 1 x 1/2 | 44.1 |
| M-4-1/4 | 4-1/4 | 1 x 1/2 | 43.4 |
| M-4-3/8 | 4-3/8 | 1 x 1/2 | 41.9 |
| M-4-7/16 | 4-7/16 | 1 x 1/2 | 41.2 |
| M-4-1/2 | 4-1/2 | 1 x 1/2 | 40.4 |
| M-4-11/16 | 4-11/16 | 1-1/4 x 5/8 | 37.5 |
| M-4-3/4 | 4-3/4 | 1-1/4 x 5/8 | 36.7 |
| M-4-7/8 | 4-7/8 | 1-1/4 x 1/4 | 37.8 |
| M-4-15/16 | 4-15/16 | 1-1/4 x 1/4 | 37.0 |
| M-5 | 5 | 1-1/4 x 1/4 | 36.1 |
| M-5-3/16 | 5-3/16 | 1-1/4 x 1/4 | 33.5 |
| M-5-1/4 | 5-1/4 | 1-1/4 x 1/4 | 32.6 |
| M-5-7/16 | 5-7/16 | 1-1/4 x 1/4 | 29.9 |
| M-5-1/2 | 5-1/2 | 1-1/4 x 1/4 | 28.9 |

N BUSHINGS

| | | | |
|-----------|---------|-------------|------|
| N-2-15/16 | 2-15/16 | 3/4 x 3/8 | 84.1 |
| N-3 | 3 | 3/4 x 3/8 | 83.5 |
| N-3-3/8 | 3-3/8 | 7/8 x 7/16 | 79.3 |
| N-3-7/16 | 3-7/16 | 7/8 x 7/16 | 78.6 |
| N-3-1/2 | 3-1/2 | 7/8 x 7/16 | 77.9 |
| N-3-5/8 | 3-5/8 | 7/8 x 7/16 | 76.4 |
| N-3-3/4 | 3-3/4 | 7/8 x 7/16 | 74.9 |
| N-3-7/8 | 3-7/8 | 1 x 1/2 | 73.1 |
| N-3-15/16 | 3-15/16 | 1 x 1/2 | 72.3 |
| N-4 | 4 | 1 x 1/2 | 71.5 |
| N-4-3/16 | 4-3/16 | 1 x 1/2 | 68.9 |
| N-4-1/4 | 4-1/4 | 1 x 1/2 | 68.1 |
| N-4-3/8 | 4-3/8 | 1 x 1/2 | 66.3 |
| N-4-7/16 | 4-7/16 | 1 x 1/2 | 65.4 |
| N-4-1/2 | 4-1/2 | 1 x 1/2 | 64.5 |
| N-4-5/8 | 4-5/8 | 1-1/4 x 5/8 | 62.0 |
| N-4-3/4 | 4-3/4 | 1-1/4 x 5/8 | 60.0 |
| N-4-7/8 | 4-7/8 | 1-1/4 x 5/8 | 58.1 |
| N-4-15/16 | 4-15/16 | 1-1/4 x 5/8 | 57.0 |
| N-5 | 5 | 1-1/4 x 5/8 | 56.0 |
| N-5-3/16 | 5-3/16 | 1-1/4 x 1/4 | 56.1 |
| N-5-7/16 | 5-7/16 | 1-1/4 x 1/4 | 51.7 |
| N-5-1/2 | 5-1/2 | 1-1/4 x 1/4 | 50.6 |
| N-5-7/8 | 5-7/8 | 1-1/2 x 1/4 | 44.3 |
| N-5-15/16 | 5-15/16 | 1-1/2 x 1/8 | 43.9 |

P BUSHINGS

| | | | |
|-----------|---------|------------|-------|
| P-2-15/16 | 2-15/16 | 3/4 x 3/8 | 141.2 |
| P-3-1/4 | 3-1/4 | 3/4 x 3/8 | 137.6 |
| P-3-7/16 | 3-7/16 | 7/8 x 7/16 | 134.9 |
| P-3-1/2 | 3-1/2 | 7/8 x 7/16 | 134.1 |

| Bushing Part Number | Stock Bores (Inches) | Keyseat | Approx. Weight (lbs.) |
|---------------------|----------------------|---------|-----------------------|
|---------------------|----------------------|---------|-----------------------|

P BUSHINGS

| | | | |
|-----------|---------|-------------|-------|
| P-3-5/8 | 3-5/8 | 7/8 x 7/16 | 132.4 |
| P-3-3/4 | 3-3/4 | 7/8 x 7/16 | 130.6 |
| P-3-7/8 | 3-7/8 | 1 x 1/2 | 128.5 |
| P-3-15/16 | 3-15/16 | 1 x 1/2 | 127.6 |
| P-4 | 4 | 1 x 1/2 | 126.7 |
| P-4-1/4 | 4-1/4 | 1 x 1/2 | 122.7 |
| P-4-3/8 | 4-3/8 | 1 x 1/2 | 120.7 |
| P-4-7/16 | 4-7/16 | 1 x 1/2 | 119.6 |
| P-4-1/2 | 4-1/2 | 1 x 1/2 | 118.6 |
| P-4-5/8 | 4-5/8 | 1-1/4 x 5/8 | 115.7 |
| P-4-11/16 | 4-11/16 | 1-1/4 x 5/8 | 114.6 |
| P-4-3/4 | 4-3/4 | 1-1/4 x 5/8 | 113.5 |
| P-4-7/8 | 4-7/8 | 1-1/4 x 5/8 | 111.2 |
| P-4-15/16 | 4-15/16 | 1-1/4 x 5/8 | 110.0 |
| P-5 | 5 | 1-1/4 x 5/8 | 108.8 |
| P-5-3/16 | 5-3/16 | 1-1/4 x 5/8 | 105.2 |
| P-5-1/4 | 5-1/4 | 1-1/4 x 5/8 | 103.9 |
| P-5-5/16 | 5-5/16 | 1-1/4 x 5/8 | 102.7 |
| P-5-3/8 | 5-3/8 | 1-1/4 x 5/8 | 101.4 |
| P-5-7/16 | 5-7/16 | 1-1/4 x 5/8 | 100.1 |
| P-5-1/2 | 5-1/2 | 1-1/4 x 5/8 | 98.8 |
| P-5-3/4 | 5-3/4 | 1-1/2 x 3/4 | 98.1 |
| P-5-7/8 | 5-7/8 | 1-1/2 x 1/4 | 95.3 |
| P-5-15/16 | 5-15/16 | 1-1/2 x 1/4 | 93.9 |
| P-6 | 6 | 1-1/2 x 1/4 | 92.5 |
| P-6-1/16 | 6-1/16 | 1-1/2 x 1/4 | 91.0 |
| P-6-1/4 | 6-1/4 | 1-1/2 x 1/4 | 86.6 |
| P-6-7/16 | 6-7/16 | 1-1/2 x 1/4 | 83.5 |
| P-6-1/2 | 6-1/2 | 1-1/2 x 1/4 | 80.5 |
| P-6-3/4 | 6-3/4 | 1-3/4 x 1/8 | 74.7 |
| P-7 | 7 | 1-3/4 x 1/8 | 68.1 |

W BUSHINGS

| | | | |
|---------|-------|---|-------|
| W4-1/4 | 4-1/4 | — | 247.0 |
| W-4-7/8 | 4-7/8 | — | 234.0 |
| W-5-1/4 | 5-1/4 | — | 225.0 |
| W-5-7/8 | 5-7/8 | — | 209.0 |
| W-6-1/2 | 6-1/2 | — | 191.0 |
| W-7-1/4 | 7-1/4 | — | 167.0 |

S BUSHINGS

| | | | |
|-----|---|---|-------|
| S-6 | 6 | — | 445.0 |
| S-8 | 8 | — | 356.0 |
| S-9 | 9 | — | 301.0 |

FLANGELESS QD BUSHINGS

SKQ BUSHINGS

| | | | |
|------------|--------|-------------|-----|
| SKQ-MPB | 1/2 | MPB unsplit | 1.7 |
| SKQ-1 | 1 | 1/4 x 1/8 | 1.6 |
| SKQ-1-1/8 | 1-1/8 | 1/4 x 1/8 | 1.5 |
| SKQ-1-3/16 | 1-3/16 | 1/4 x 1/8 | 1.4 |
| SKQ-1-3/8 | 1-3/8 | 5/16 x 5/32 | 1.3 |
| SKQ-1-1/2 | 1-1/2 | 3/8 x 3/16 | 1.2 |
| SKQ-1-5/8 | 1-5/8 | 3/8 x 3/16 | 1.1 |

Bushings – Bore & Keyseat Dimensions



| Bushing Part Number | Stock Bores (Inches) | Keyseat | Approx. Weight (lbs.) |
|---------------------|----------------------|---------|-----------------------|
|---------------------|----------------------|---------|-----------------------|

FLANGELESS QD BUSHINGS

SKQ BUSHINGS

| | | | |
|-------------|---------|------------|-----|
| SKQ-1-3/4 | 1-3/4 | 3/8 x 3/16 | 1.0 |
| SKQ-1-7/8 | 1-7/8 | 1/2 x 1/4 | 0.9 |
| SKQ-1-15/16 | 1-15/16 | 1/2 x 1/4 | 0.8 |

SFQ BUSHINGS

| | | | |
|------------|--------|-------------|-----|
| SFQ-MPB | 1/2 | MPB unsplit | 2.1 |
| SFQ-1 | 1 | 1/4 x 1/8 | 2.0 |
| SFQ-1-1/8 | 1-1/8 | 1/4 x 1/8 | 1.9 |
| SFQ-1-3/16 | 1-3/16 | 1/4 x 1/8 | 1.8 |
| SFQ-1-3/8 | 1-3/8 | 5/16 x 5/32 | 1.7 |
| SFQ-1-1/2 | 1-1/2 | 3/8 x 3/16 | 1.6 |
| SFQ-1-5/8 | 1-5/8 | 3/8 x 3/16 | 1.5 |
| SFQ-1-3/4 | 1-3/4 | 3/8 x 3/16 | 1.4 |
| SFQ-1-7/8 | 1-7/8 | 1/2 x 1/4 | 1.3 |
| SFQ-1-5/16 | 1-5/16 | 1/2 x 1/4 | 1.3 |
| SFQ-2 | 2 | 1/2 x 1/4 | 1.2 |
| SFQ-2-1/8 | 2-1/8 | 1/2 x 1/4 | 1.1 |
| SFQ-2-3/16 | 2-3/16 | 1/2 x 1/4 | 1.0 |
| SFQ-2-1/4 | 2-1/4 | 1/2 x 1/4 | 1.0 |
| SFQ-2-3/8 | 2-3/8 | 5/8 x 5/16 | 0.9 |

| Bushing Part Number | Stock Bores (Inches) | Keyseat | Approx. Weight (lbs.) |
|---------------------|----------------------|---------|-----------------------|
|---------------------|----------------------|---------|-----------------------|

FLANGELESS QD BUSHINGS

EQ BUSHINGS

| | | | |
|------------|---------|-------------|-----|
| EQ-MPB | 7/8 | MPB unsplit | 4.1 |
| EQ-1-5/8 | 1-5/8 | 3/8 x 3/16 | 3.4 |
| EQ-1-7/8 | 1-7/8 | 1/2 x 1/4 | 3.1 |
| EQ-1-15/16 | 1-15/16 | 1/2 x 1/4 | 3.0 |
| EQ-2-1/8 | 2-1/8 | 1/2 x 1/4 | 2.9 |
| EQ-2-3/16 | 2-3/16 | 1/2 x 1/4 | 2.8 |
| EQ-2-1/4 | 2-1/4 | 1/2 x 1/4 | 2.7 |
| EQ-2-3/8 | 2-3/8 | 5/8 x 5/16 | 2.5 |
| EQ-2-7/16 | 2-7/16 | 5/8 x 5/16 | 2.4 |
| EQ-2-1/2 | 2-1/2 | 5/8 x 5/16 | 2.3 |
| EQ-2-3/4 | 2-3/4 | 5/8 x 5/16 | 2.0 |
| EQ-2-7/8 | 2-7/8 | 3/4 x 3/8 | 1.8 |

FQ BUSHINGS

| | | | |
|------------|---------|-------------|-----|
| FQ-MPB | 1 | MPB unsplit | 8.5 |
| FQ-1-5/8 | 1-5/8 | 3/8 x 3/16 | 7.5 |
| FQ-1-7/8 | 1-7/8 | 1/2 x 1/4 | 7.1 |
| FQ-1-15/16 | 1-15/16 | 1/2 x 1/4 | 7.0 |
| FQ-2-1/8 | 2-1/8 | 1/2 x 1/4 | 6.6 |
| FQ-2-3/8 | 2-3/8 | 5/8 x 5/16 | 6.2 |

| Bushing Part Number | Stock Bores (Inches) | Keyseat | Approx. Weight (lbs.) |
|---------------------|----------------------|---------|-----------------------|
|---------------------|----------------------|---------|-----------------------|

FLANGELESS QD BUSHINGS

FQ BUSHINGS

| | | | |
|------------|---------|------------|-----|
| FQ-2-7/16 | 2-7/16 | 5/8 x 5/16 | 6.1 |
| FQ-2-1/2 | 2-1/2 | 5/8 x 5/16 | 5.9 |
| FQ-2-3/4 | 2-3/4 | 5/8 x 5/16 | 5.3 |
| FQ-2-7/8 | 2-7/8 | 3/4 x 3/8 | 4.9 |
| FQ-2-15/16 | 2-15/16 | 3/4 x 3/8 | 4.8 |
| FQ-3 | 3 | 3/4 x 3/8 | 4.6 |

METRIC

The Metric system does not refer to keyseat or keyway dimensions like the English system. Instead, dimensions are given for the key itself, which is rectangular in shape, not square as in the English system. This meets ISO standards.

| Standard Bushing part No. | Metric Bore (mm) | Key dimensions (mm) | Approx. Weight (lbs.) |
|---------------------------|------------------|---------------------|-----------------------|
|---------------------------|------------------|---------------------|-----------------------|

QT BUSHINGS

standard bushing with metric bore

| | | | |
|---------|----|--------|-----|
| QT-14MM | 14 | 5 x 5 | 0.6 |
| QT-16MM | 16 | 5 x 5 | 0.6 |
| QT-18MM | 18 | 6 x 6 | 0.6 |
| QT-19MM | 19 | 6 x 6 | 0.6 |
| QT-20MM | 20 | 6 x 6 | 0.6 |
| QT-22MM | 22 | 6 x 6 | 0.6 |
| QT-24MM | 24 | 8 x 7 | 0.6 |
| QT-25MM | 25 | 8 x 7 | 0.6 |
| QT-28MM | 28 | 8 x 7 | 0.6 |
| QT-30MM | 30 | 8 x 7 | 0.6 |
| QT-32MM | 32 | 10 x 6 | 0.6 |
| QT-35MM | 35 | 10 x 6 | 0.6 |
| QT-38MM | 38 | 10 x 6 | 0.6 |

JA BUSHINGS

standard bushing with metric bore

| | | | |
|---------|----|-------|-----|
| JA-15MM | 15 | 5 x 5 | 0.8 |
| JA-16MM | 16 | 5 x 5 | 0.8 |
| JA-19MM | 19 | 6 x 6 | 0.8 |
| JA-20MM | 20 | 6 x 6 | 0.8 |
| JA-24MM | 24 | 8 x 6 | 0.8 |
| JA-25MM | 25 | 8 x 6 | 0.8 |
| JA-28MM | 28 | 8 x 5 | 0.8 |

SH BUSHINGS

standard bushing with metric bore

| | | | |
|---------|----|--------|-----|
| SH-24MM | 24 | 8 x 7 | 0.9 |
| SH-25MM | 25 | 8 x 7 | 0.9 |
| SH-28MM | 28 | 8 x 7 | 0.9 |
| SH-30MM | 30 | 8 x 7 | 0.8 |
| SH-32MM | 32 | 10 x 8 | 0.8 |
| SH-35MM | 35 | 10 x 8 | 0.7 |

SDS BUSHINGS

standard bushing with metric bore

| | | | |
|----------|----|--------|-----|
| SDS-24MM | 24 | 8 x 7 | 1.5 |
| SDS-25MM | 25 | 8 x 7 | 1.5 |
| SDS-28MM | 28 | 8 x 7 | 1.4 |
| SDS-30MM | 30 | 8 x 7 | 1.4 |
| SDS-32MM | 32 | 10 x 8 | 1.3 |
| SDS-35MM | 35 | 10 x 8 | 1.2 |
| SDS-38MM | 38 | 10 x 8 | 1.1 |
| SDS-40MM | 40 | 12 x 8 | 1.1 |
| SDS-42MM | 42 | 12 x 8 | 1.0 |

SD BUSHINGS

standard bushing with metric bore

| | | | |
|---------|----|--------|-----|
| SD-24MM | 24 | 8 x 7 | 1.8 |
| SD-25MM | 25 | 8 x 7 | 1.8 |
| SD-28MM | 28 | 8 x 7 | 1.7 |
| SD-30MM | 30 | 8 x 7 | 1.7 |
| SD-32MM | 32 | 10 x 8 | 1.6 |
| SD-35MM | 35 | 10 x 8 | 1.5 |
| SD-38MM | 38 | 10 x 8 | 1.4 |
| SD-40MM | 40 | 12 x 8 | 1.3 |
| SD-42MM | 42 | 12 x 8 | 1.2 |

SK BUSHINGS

standard bushing with metric bore

| | | | |
|---------|----|-------|-----|
| SK-24MM | 24 | 8 x 7 | 3.3 |
| SK-25MM | 25 | 8 x 7 | 3.3 |

| Standard Bushing part No. | Metric Bore (mm) | Key dimensions (mm) | Approx. Weight (lbs.) |
|---------------------------|------------------|---------------------|-----------------------|
|---------------------------|------------------|---------------------|-----------------------|

SK BUSHINGS

standard bushing with metric bore

| | | | |
|---------|----|---------|-----|
| SK-28MM | 28 | 8 x 7 | 3.2 |
| SK-30MM | 30 | 8 x 7 | 3.2 |
| SK-32MM | 32 | 10 x 8 | 3.1 |
| SK-35MM | 35 | 10 x 8 | 3.0 |
| SK-38MM | 38 | 10 x 8 | 2.9 |
| SK-40MM | 40 | 12 x 8 | 3.6 |
| SK-42MM | 42 | 12 x 8 | 2.7 |
| SK-45MM | 45 | 14 x 9 | 2.6 |
| SK-48MM | 48 | 14 x 9 | 2.4 |
| SK-50MM | 50 | 14 x 9 | 2.3 |
| SK-55M | 55 | 16 x 10 | 2.0 |

SF BUSHINGS

standard bushing with metric bore

| | | | |
|---------|----|---------|-----|
| SF-28MM | 28 | 8 x 7 | 4.7 |
| SF-30MM | 30 | 8 x 7 | 4.6 |
| SF-32MM | 32 | 10 x 8 | 4.5 |
| SF-35MM | 35 | 10 x 8 | 4.4 |
| SF-38MM | 38 | 10 x 8 | 4.2 |
| SF-40MM | 40 | 12 x 8 | 4.2 |
| SF-42MM | 42 | 12 x 8 | 4.1 |
| SF-45MM | 45 | 14 x 9 | 3.9 |
| SF-48MM | 48 | 14 x 9 | 3.7 |
| SF-50MM | 50 | 14 x 9 | 3.6 |
| SF-55MM | 55 | 16 x 10 | 3.2 |
| SF-60MM | 60 | 18 x 11 | 3.0 |
| SF-65MM | 65 | 18 x 8† | 2.6 |

E BUSHINGS

standard bushing with metric bore

| | | | |
|--------|----|---------|------|
| E-35MM | 35 | 10 x 8 | 10.2 |
| E-38MM | 38 | 10 x 8 | 10.0 |
| E-40MM | 40 | 12 x 8 | 9.9 |
| E-42MM | 42 | 12 x 8 | 9.8 |
| E-45MM | 45 | 14 x 9 | 9.6 |
| E-48MM | 48 | 14 x 9 | 9.3 |
| E-50MM | 50 | 14 x 9 | 9.2 |
| E-55MM | 55 | 16 x 10 | 8.6 |
| E-60MM | 60 | 18 x 11 | 8.1 |
| E-65MM | 65 | 18 x 11 | 7.6 |
| E-70MM | 70 | 20 x 12 | 7.1 |
| E-75MM | 75 | 20 x 12 | 6.9 |
| E-80MM | 80 | 22 x 11 | 6.3 |

F BUSHINGS

standard bushing with metric bore

| | | | |
|--------|----|---------|------|
| F-45MM | 45 | 14 x 9 | 16.2 |
| F-48MM | 48 | 14 x 9 | 16.0 |
| F-50MM | 50 | 14 x 9 | 15.8 |
| F-55MM | 55 | 16 x 10 | 15.0 |
| F-60MM | 60 | 18 x 11 | 14.3 |
| F-65MM | 65 | 18 x 11 | 13.7 |
| F-70MM | 70 | 20 x 12 | 12.9 |
| F-75MM | 75 | 20 x 12 | 12.1 |
| F-80MM | 80 | 22 x 14 | 11.2 |
| F-85MM | 85 | 22 x 14 | 10.6 |
| F-90MM | 90 | 25 x 14 | 9.7 |

| Standard Bushing part No. | Metric Bore (mm) | Key dimensions (mm) | Approx. Weight (lbs.) |
|---------------------------|------------------|---------------------|-----------------------|
|---------------------------|------------------|---------------------|-----------------------|

J BUSHINGS

standard bushing with metric bore

| | | | |
|---------|-----|---------|------|
| J-50MM | 50 | 14 x 9 | 26.5 |
| J-55MM | 55 | 16 x 10 | 25.6 |
| J-60MM | 60 | 18 x 11 | 24.7 |
| J-65MM | 65 | 18 x 11 | 23.9 |
| J-70MM | 70 | 20 x 12 | 23.0 |
| J-75MM | 75 | 20 x 12 | 21.9 |
| J-80MM | 80 | 22 x 14 | 20.9 |
| J-85MM | 85 | 22 x 14 | 19.3 |
| J-90MM | 90 | 25 x 14 | 18.1 |
| J-95MM | 95 | 25 x 14 | 16.8 |
| J-100MM | 100 | 28 x 16 | 16.5 |

M BUSHINGS

standard bushing with metric bore

| | | | |
|---------|-----|---------|------|
| M-80MM | 80 | 22 x 14 | 55.0 |
| M-90MM | 90 | 25 x 14 | 51.2 |
| M-100MM | 100 | 28 x 16 | 46.9 |
| M-120MM | 120 | 32 X 18 | 37.0 |

N BUSHINGS

standard bushing with metric bore

| | | | |
|---------|-----|---------|------|
| N-100MM | 100 | 28 x 16 | 72.3 |
| N-120MM | 120 | 32 X 18 | 60.2 |

P BUSHINGS

standard bushing with metric bore

| | | | |
|---------|-----|---------|------|
| P-150MM | 150 | 36 X 20 | 95.8 |
|---------|-----|---------|------|

METRIC BUSHINGS with METRIC BORE

The Metric system does not refer to keyseat or keyway dimensions like the English system. Instead, dimensions are given for the key itself, which is rectangular in shape, not square as in the English system. This meets ISO standards.

| Metric Bushing part No. | Metric Bore (mm) | Key dimensions (mm) | Approx. Weight (lbs.) |
|-------------------------|------------------|---------------------|-----------------------|
|-------------------------|------------------|---------------------|-----------------------|

MQT BUSHINGS

metric bushing with metric bore

| | | | |
|----------|----|--------|-----|
| MQT-10NK | 10 | none | 0.6 |
| MQT-10 | 10 | 4 x 4 | 0.6 |
| MQT-11 | 11 | 4 x 4 | 0.6 |
| MQT-14 | 14 | 5 x 5 | 0.6 |
| MQT-15 | 15 | 5 x 5 | 0.6 |
| MQT-19 | 19 | 6 x 6 | 0.6 |
| MQT-20 | 20 | 6 x 6 | 0.6 |
| MQT-24 | 24 | 8 x 7 | 0.6 |
| MQT-28 | 28 | 8 x 7 | 0.6 |
| MQT-30 | 30 | 8 x 7 | 0.6 |
| MQT-38 | 38 | 10 x 6 | 0.6 |

MJA BUSHINGS

metric bushing with metric bore

| | | | |
|----------|----|-------|-----|
| MJA-10NK | 10 | none | 0.8 |
| MJA-10 | 10 | 4 x 4 | 0.8 |
| MJA-11 | 11 | 4 x 4 | 0.8 |
| MJA-14 | 14 | 5 x 5 | 0.8 |
| MJA-15 | 15 | 5 x 5 | 0.8 |
| MJA-19 | 19 | 6 x 6 | 0.8 |
| MJA-20 | 20 | 6 x 6 | 0.8 |
| MJA-24 | 24 | 8 x 6 | 0.8 |
| MJA-28 | 28 | 8 x 5 | 0.8 |

MSH BUSHINGS

metric bushing with metric bore

| | | | |
|----------|----|--------|-----|
| MSH-10NK | 10 | none | 1.1 |
| MSH-10 | 10 | 4 x 4 | 1.1 |
| MSH-11 | 11 | 4 x 4 | 1.1 |
| MSH-14 | 14 | 5 x 5 | 1.1 |
| MSH-15 | 15 | 5 x 5 | 1.1 |
| MSH-19 | 19 | 6 x 6 | 1.0 |
| MSH-20 | 20 | 6 x 6 | 1.0 |
| MSH-24 | 24 | 8 x 7 | 1.0 |
| MSH-25 | 25 | 8 x 7 | 1.0 |
| MSH-28 | 28 | 8 x 7 | 0.9 |
| MSH-30 | 30 | 8 x 7 | 0.8 |
| MSH-35 | 35 | 10 x 8 | 0.7 |
| MSH-38 | 38 | 10 x 7 | 0.7 |
| MSH-40 | 40 | 12 x 6 | 0.6 |

MSDS BUSHINGS

metric bushing with metric bore

| | | | |
|-----------|----|----------|-----|
| MSDS-10NK | 10 | none | 1.7 |
| MSDS-15 | 15 | 5 x 5 | 1.6 |
| MSDS-19 | 19 | 6 x 6 | 1.6 |
| MSDS-20 | 20 | 6 x 6 | 1.6 |
| MSDS-24 | 24 | 8 x 7 | 1.5 |
| MSDS-25 | 25 | 8 x 7 | 1.5 |
| MSDS-28 | 28 | 8 x 7 | 1.4 |
| MSDS-30 | 30 | 8 x 7 | 1.4 |
| MSDS-35 | 35 | 10 x 8 | 1.2 |
| MSDS-38NK | 38 | none | 1.1 |
| MSDS-38 | 38 | 10 x 8 | 1.1 |
| MSDS-40 | 40 | 12 x 8 | 1.0 |
| MSDS-42 | 42 | 12 x 8 | 1.0 |
| MSDS-48 | 48 | 14 x 6.5 | 0.9 |

| Metric Bushing part No. | Metric Bore (mm) | Key dimensions (mm) | Approx. Weight (lbs.) |
|-------------------------|------------------|---------------------|-----------------------|
|-------------------------|------------------|---------------------|-----------------------|

MSD BUSHINGS

metric bushing with metric bore

| | | | |
|----------|----|----------|-----|
| MSD-15NK | 15 | none | 2.0 |
| MSD-15 | 15 | 5 x 5 | 2.0 |
| MSD-19 | 19 | 6 x 6 | 1.9 |
| MSD-20 | 20 | 6 x 6 | 1.9 |
| MSD-24 | 24 | 8 x 7 | 1.9 |
| MSD-28 | 28 | 8 x 7 | 1.7 |
| MSD-30 | 30 | 8 x 7 | 1.7 |
| MSD-35 | 35 | 10 x 8 | 1.5 |
| MSD-38NK | 38 | none | 1.4 |
| MSD-38 | 38 | 10 x 8 | 1.4 |
| MSD-40 | 40 | 12 x 8 | 1.3 |
| MSD-42 | 42 | 12 x 8 | 1.2 |
| MSD-48 | 48 | 14 x 6.5 | 1.0 |

MSK BUSHINGS

metric bushing with metric bore

| | | | |
|----------|----|---------|-----|
| MSK-15NK | 15 | none | 3.6 |
| MSK-19 | 19 | 6 x 6 | 3.5 |
| MSK-20 | 20 | 6 x 6 | 3.5 |
| MSK-24 | 24 | 8 x 7 | 3.4 |
| MSK-28 | 28 | 8 x 7 | 3.2 |
| MSK-30 | 30 | 8 x 7 | 3.2 |
| MSK-35 | 35 | 10 x 8 | 3.0 |
| MSK-38 | 38 | 10 x 8 | 2.9 |
| MSK-40 | 40 | 12 x 8 | 2.8 |
| MSK-42 | 42 | 12 x 8 | 2.7 |
| MSK-48 | 48 | 14 x 9 | 2.4 |
| MSK-50 | 50 | 14 x 9 | 2.3 |
| MSK-55NK | 55 | none | 2.0 |
| MSK-55 | 55 | 16 x 10 | 2.0 |
| MSK-60 | 60 | 18 x 8 | 1.7 |

MSF BUSHINGS

metric bushing with metric bore

| | | | |
|----------|----|---------|-----|
| MSF-15NK | 15 | none | 5.1 |
| MSF-20 | 20 | 6 x 6 | 5.0 |
| MSF-24 | 24 | 8 x 7 | 4.8 |
| MSF-28 | 28 | 8 x 7 | 4.7 |
| MSF-30 | 30 | 8 x 7 | 4.6 |
| MSF-35 | 35 | 10 x 8 | 4.4 |
| MSF-38 | 38 | 10 x 8 | 4.2 |
| MSF-40 | 40 | 12 x 8 | 4.2 |
| MSF-42 | 42 | 12 x 8 | 4.1 |
| MSF48- | 48 | 14 x 9 | 3.7 |
| MSF-50 | 50 | 14 x 9 | 3.5 |
| MSF-55NK | 55 | none | 3.2 |
| MSF-55 | 55 | 16 x 10 | 3.2 |
| MSF-60 | 60 | 18 x 11 | 3.0 |

ME BUSHINGS

metric bushing with metric bore

| | | | |
|---------|----|---------|------|
| ME-20NK | 20 | none | 10.8 |
| ME-28 | 28 | 8 x 7 | 10.6 |
| ME-30 | 30 | 8 x 7 | 10.5 |
| ME-38 | 38 | 10 x 8 | 10.0 |
| ME-40 | 40 | 12 x 8 | 9.9 |
| ME-42 | 42 | 12 x 8 | 9.8 |
| ME-48 | 48 | 14 x 9 | 9.3 |
| ME-50 | 50 | 14 x 9 | 9.2 |
| ME-55 | 55 | 16 x 10 | 8.6 |

| Metric Bushing part No. | Metric Bore (mm) | Key dimensions (mm) | Approx. Weight (lbs.) |
|-------------------------|------------------|---------------------|-----------------------|
|-------------------------|------------------|---------------------|-----------------------|

ME BUSHINGS

metric bushing with metric bore

| | | | |
|-------|----|---------|-----|
| ME-60 | 60 | 18 x 11 | 8.1 |
| ME-70 | 70 | 20 x 12 | 7.1 |

MF BUSHINGS

metric bushing with metric bore

| | | | |
|---------|----|---------|------|
| MF-20NK | 20 | none | 18.0 |
| MF-30 | 30 | 8 x 7 | 17.6 |
| MF-38 | 38 | 10 x 8 | 16.9 |
| MF-40 | 40 | 12 x 8 | 16.8 |
| MF-42 | 42 | 12 x 8 | 16.7 |
| MF-48 | 48 | 14 x 9 | 18.0 |
| MF-50 | 50 | 14 x 9 | 15.7 |
| MF-55 | 55 | 16 x 10 | 15.0 |
| MF-60 | 60 | 18 x 11 | 14.3 |
| MF-70 | 70 | 20 x 12 | 12.9 |