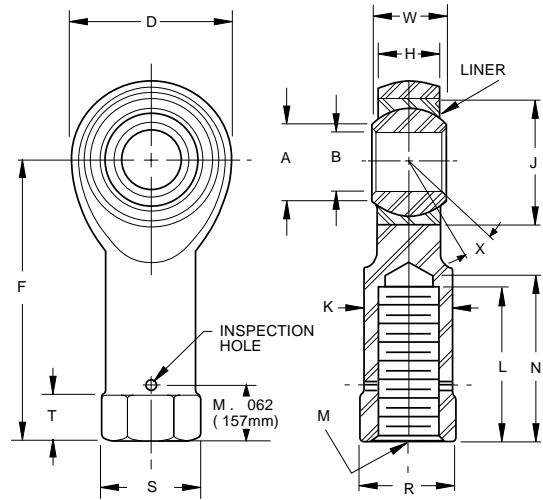


## SELF-LUBRICATED ROD END BEARINGS

- Female type, rod end
- High temperature — low wear  
-65°F to +325°F (-53.9°C to +162.8°C)
- Material: Bearing inner ring: CRES 440C  
Bearing outer ring: CRES 17-4PH  
Rod end housing: CRES 17-4PH, HRC 39-42, passivated
- Liner: Fibriloid® or “E” Uniflon® qualified to AS81820
- Threads conform to UNJF-3B per AS8879. For left hand thread add “L” or “1” depending on part number ordered  
Example: see below



## SPECIFICATIONS AND ORDERING INFORMATION

### DIMENSIONS – TOLERANCES

| PART NUMBERS | FSSE Dash No. | 01-858 Dash No. | B      |        | D     |       | L <sup>(1)</sup> |       | F     |        | K     |       | W     |       | H     |       | A    | J    | N      | S <sup>(2)</sup> | T     |       | R <sup>(1)</sup> |       | M    | X°    |       |       |                    |      |
|--------------|---------------|-----------------|--------|--------|-------|-------|------------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|------|------|--------|------------------|-------|-------|------------------|-------|------|-------|-------|-------|--------------------|------|
|              |               |                 | in.    | mm     | in.   | mm    | in.              | mm    | in.   | mm     | in.   | mm    | in.   | mm    | in.   | mm    |      |      |        |                  | in.   | mm    | in.              | mm    |      |       | in.   | mm    | UNJF-3B PER AS8879 | Min. |
| 03           | -03           |                 | .1900  | 4.826  | .806  | 20.47 | .750             | 19.05 | 1.375 | 34.92  | .422  | 10.72 | .437  | 11.10 | .337  | 8.56  | .30  | 7.6  | .6250  | 15.875           | .875  | 22.22 | .500             | 12.70 | .188 | 4.78  | .437  | 11.10 | 5/16-24            | 15   |
| 04           | -04           |                 | .2500  | 6.350  | .806  | 20.47 | .750             | 19.05 | 1.469 | 37.31  | .422  | 10.72 | .437  | 11.10 | .337  | 8.56  | .30  | 7.6  | .6250  | 15.875           | .875  | 22.22 | .500             | 12.70 | .188 | 4.78  | .437  | 11.10 | 5/16-24            | 15   |
| 05           | -05           |                 | .3125  | 7.938  | .900  | 22.86 | .875             | 22.22 | 1.625 | 41.28  | .485  | 12.32 | .437  | 11.10 | .327  | 8.31  | .36  | 9.1  | .6875  | 17.462           | 1.000 | 25.40 | .580             | 14.73 | .250 | 6.35  | .500  | 12.70 | 3/8-24             | 14   |
| 06           | -06           |                 | .3750  | 9.525  | 1.025 | 26.04 | 1.000            | 25.40 | 1.812 | 46.02  | .547  | 13.89 | .500  | 12.70 | .416  | 10.57 | .47  | 11.9 | .8125  | 20.638           | 1.125 | 28.58 | .660             | 16.76 | .250 | 6.35  | .562  | 14.27 | 3/8-24             | 8    |
| 07           | -07           |                 | .4375  | 11.112 | 1.150 | 29.21 | 1.125            | 28.58 | 2.000 | 50.80  | .610  | 15.49 | .562  | 14.27 | .452  | 11.48 | .54  | 13.7 | .9062  | 23.017           | 1.250 | 31.75 | .720             | 18.29 | .250 | 6.35  | .625  | 15.88 | 7/16-20            | 10   |
| 08           | -08           |                 | .5000  | 12.700 | 1.337 | 33.96 | 1.250            | 31.75 | 2.250 | 57.15  | .735  | 18.67 | .625  | 15.88 | .515  | 13.08 | .61  | 15.5 | 1.0000 | 25.400           | 1.375 | 34.92 | .880             | 22.35 | .250 | 6.35  | .750  | 19.05 | 1/2-20             | 9    |
| 10           | -10           |                 | .6250  | 15.875 | 1.525 | 38.74 | 1.375            | 34.92 | 2.500 | 63.50  | .860  | 21.84 | .750  | 19.05 | .577  | 14.66 | .75  | 19.1 | 1.1875 | 30.162           | 1.500 | 38.10 | 1.020            | 25.91 | .375 | 9.52  | .875  | 22.22 | 5/8-18             | 12   |
| 12           | -12           |                 | .7500  | 19.050 | 1.775 | 45.09 | 1.625            | 41.28 | 2.875 | 73.03  | .985  | 25.02 | .875  | 22.23 | .640  | 16.26 | .85  | 21.6 | 1.3750 | 34.925           | 1.750 | 44.45 | 1.160            | 29.46 | .375 | 9.53  | 1.000 | 25.40 | 3/4-16             | 13   |
| 14           | -14           |                 | .8750  | 22.225 | 2.025 | 51.44 | 1.875            | 47.63 | 3.375 | 85.73  | 1.110 | 28.19 | .875  | 22.23 | .765  | 19.43 | 1.00 | 25.4 | 1.6250 | 41.275           | 2.062 | 52.37 | 1.300            | 33.02 | .500 | 12.70 | 1.125 | 28.58 | 7/8-14             | 6    |
| 16           | -16           |                 | 1.0000 | 25.400 | 2.275 | 70.49 | 2.125            | 53.98 | 4.125 | 104.78 | 1.688 | 42.88 | 1.375 | 34.93 | 1.015 | 25.78 | 1.27 | 32.3 | 2.1250 | 53.975           | 2.312 | 58.72 | 2.020            | 51.31 | .563 | 14.30 | 1.750 | 44.45 | 1 1/4-12           | 12   |

<sup>(1)</sup>Completed thread.  
<sup>(2)</sup>Measured across corners or diameter.

### LOAD RATINGS

| FSSE Dash No. | 02-858 Dash No. | Ultimate Static Load |        | Fatigue Load        |                     | Axial Proof Load |       | Weight |       | No Load Rational Breakaway Torque |     |          |      |
|---------------|-----------------|----------------------|--------|---------------------|---------------------|------------------|-------|--------|-------|-----------------------------------|-----|----------|------|
|               |                 | lb.                  | N      | lb.                 | N                   | lb.              | N     | lbs.   | kg    | in.-lbs.                          | Nm  | in.-lbs. | Nm   |
| 03            | -03             | 2360                 | 10400  | 1470 <sup>(1)</sup> | 6550 <sup>(2)</sup> | 1000             | 4400  | 0.080  | 0.030 | .5                                | .06 | 6        | .68  |
| 04            | -04             | 4860                 | 21600  | 2380                | 10600               | 1000             | 4400  | 0.084  | 0.038 | .5                                | .06 | 6        | .68  |
| 05            | -05             | 7180                 | 32000  | 3020                | 13400               | 1100             | 4900  | 0.102  | 0.046 | 1                                 | .11 | 15       | 1.70 |
| 06            | -06             | 8550                 | 38000  | 3570                | 16000               | 1660             | 7350  | 0.161  | 0.073 | 1                                 | .11 | 15       | 1.70 |
| 07            | -07             | 12000                | 53000  | 4800                | 21200               | 1850             | 8300  | 0.212  | 0.096 | 1                                 | .11 | 15       | 1.70 |
| 08            | -08             | 19500                | 86500  | 8260                | 36500               | 2040             | 9000  | 0.325  | 0.147 | 1                                 | .11 | 15       | 1.70 |
| 10            | -10             | 21900                | 98000  | 9180                | 40500               | 2430             | 10800 | 0.481  | 0.218 | 1                                 | .11 | 15       | 1.70 |
| 12            | -12             | 29300                | 130000 | 11600               | 51500               | 1810             | 11500 | 0.673  | 0.306 | 1                                 | .11 | 15       | 1.70 |
| 14            | -14             | 34500                | 151000 | 11100               | 58000               | 1320             | 14800 | 0.959  | 0.436 | 1                                 | .11 | 24       | 2.71 |
| 16            | -16             | 80300                | 357000 | 30400               | 135000              | 4340             | 19300 | 2.717  | 1.235 | 1                                 | .11 | 24       | 2.71 |

<sup>(1)</sup>Based on bolt bending fatigue strength 180000 psi  
<sup>(2)</sup>Based on bolt bending fatigue strength 127kg/mm<sup>2</sup>. Check for availability.

**Notes:**  
**Ultimate Static Load** — No fracture of rod ending housing or bearing will occur when the ultimate static load is applied in the bearing along th shank center line.  
**Axial Static Proof Load** — Is the retention strength of the bearing within the eye of the rod end housing. No push out of the bearing cartridge will occur when the housing eye is supported and the axial proof load is applied to the face of insert bearing inner ring.  
**Fatigue Load** — The rod end housing will withstand 50,000 cycles of full tension to 10% tension loading at speeds up to 2800 cpm. Load is applied in line with the rod end shank putting the eye in tension.

| Bearing configuration | Part number designations for a 0.2500 in. bore rod end |            |
|-----------------------|--|------------|
| Base P/N (no options) | FSSE04   | 02-858-04  |
| Keyway on threads     | FSSEK04  | 02-858-041 |
| Left hand thread      | FSSEL04  | 12-858-04  |