

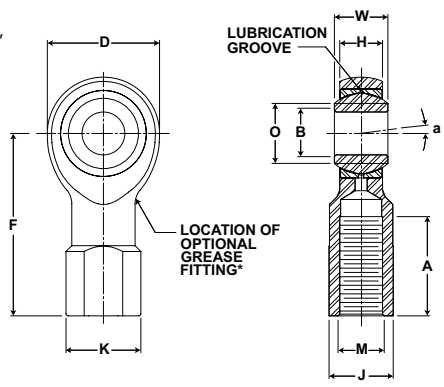


**Basic Construction Type:** Female 3 pc. General Purpose, Precision

**Outer Member Material:** Carbon Steel with Protective Plating for Corrosion Resistance

**Race Material:** Carbon Steel with Protective Plating for Corrosion Resistance

**Ball Material:** Alloy Steel, Heat Treated, Chrome Plated



### TR, TR-N Series Female Rod Ends

| PART No. | Dimensions inch / mm |                  |                  |                  |                  |                |                 |                |                  |                |                | MAX STATIC RADIAL LOAD<br>lb/N | MISALIGNMENT ANGLE $\alpha$<br>DEG.<br>+/- | UNIT WT.<br>lb/kg |
|----------|----------------------|------------------|------------------|------------------|------------------|----------------|-----------------|----------------|------------------|----------------|----------------|--------------------------------|--|-------------------|
|          | B                    | W                | H                | D                | F                | A              | M               | K              | J                | BALL DIAM.     | O              |                                |  |                   |
|          | +0.015<br>-0.005     | +0.000<br>-0.005 | +0.005<br>-0.005 | +0.010<br>-0.010 | +0.015<br>-0.015 | MIN.           | CLASS<br>UNF-2B | REF.           | +0.010<br>-0.010 | REF.           | REF.           |                                |  |                   |
| TR-3     | .1900<br>4.826       | .312<br>7.92     | .250<br>6.35     | .625<br>15.88    | 1.062<br>26.97   | .531<br>13.49  | #10-32          | .375<br>9.53   | .312<br>7.92     | .437<br>11.10  | .306<br>7.77   | 1850<br>8229                   | 6 1/2                                      | .030<br>.014      |
| TR-4     | .2500<br>6.350       | .375<br>9.53     | .281<br>7.14     | .750<br>19.05    | 1.312<br>33.32   | .719<br>18.26  | 1/4-28          | .469<br>11.91  | .375<br>9.53     | .500<br>12.70  | .331<br>8.41   | 2700<br>12010                  | 8  | .060<br>.027      |
| TR-5     | .3125<br>7.938       | .437<br>11.10    | .344<br>8.74     | .875<br>22.23    | 1.375<br>34.93   | .719<br>18.26  | 5/16-24         | .531<br>13.49  | .437<br>11.10    | .625<br>15.88  | .447<br>11.35  | 3350<br>14902                  | 7  | .080<br>.036      |
| TR-6     | .3750<br>9.525       | .500<br>12.70    | .406<br>10.31    | 1.000<br>25.40   | 1.625<br>41.28   | .906<br>23.01  | 3/8-24          | .688<br>17.48  | .562<br>14.27    | .718<br>18.24  | .517<br>13.13  | 4450<br>19795                  | 6  | .140<br>.064      |
| TR-7     | .4375<br>11.113      | .562<br>14.27    | .437<br>11.10    | 1.125<br>28.58   | 1.812<br>46.02   | 1.031<br>26.19 | 7/16-20         | .750<br>19.05  | .625<br>15.88    | .812<br>20.62  | .586<br>14.88  | 5350<br>23798                  | 7  | .180<br>.082      |
| TR-8     | .5000<br>12.700      | .625<br>15.88    | .500<br>12.70    | 1.312<br>33.32   | 2.125<br>53.98   | 1.156<br>29.36 | 1/2-20          | .875<br>22.23  | .750<br>19.05    | .937<br>23.80  | .698<br>17.73  | 7400<br>32917                  | 6  | .290<br>.132      |
| TR-10    | .6250<br>15.875      | .750<br>19.05    | .562<br>14.27    | 1.500<br>38.10   | 2.500<br>63.50   | 1.469<br>37.31 | 5/8-18          | 1.000<br>25.40 | .875<br>22.23    | 1.125<br>28.58 | .839<br>21.31  | 8050<br>35808                  | 8  | .430<br>.195      |
| TR-12    | .7500<br>19.050      | .875<br>22.23    | .687<br>17.45    | 1.750<br>44.45   | 2.875<br>73.03   | 1.719<br>43.66 | 3/4-16          | 1.125<br>28.58 | 1.000<br>25.40   | 1.312<br>33.32 | .978<br>24.84  | 11300<br>50265                 | 7  | .640<br>.290      |
| ** TR-16 | 1.0000<br>25.400     | 1.375<br>34.93   | 1.000<br>25.40   | 2.750<br>69.85   | 4.125<br>104.78  | 2.094<br>53.19 | 1 1/4-12        | 1.688<br>42.88 | 1.500<br>38.10   | 1.875<br>47.63 | 1.269<br>32.23 | 21000<br>93413                 | 8 1/2                                      | 2.250<br>1.021    |

- NOTES
1. Rod ends with Zerk type grease fittings can be obtained by ordering the TR-N series; Example: TR-8N.
  2. Grease fittings are available on sizes 4 through 16 only.
  - \*3. Load ratings apply to the TR series only. For TR-N load ratings contact Application Engineering.
  4. To order left hand threaded units add letter "L" to part number prefix; Example: TRL-8.
  5. Add letter "Y" to the part number suffix to indicate stud. Example: TR-8Y.
  6. For design modifications, see page J-13.
  - \*\*7. Tolerances for "D" dimensions is +.030, -.010. For "H" dimensions is +.030, -.010.

Metric dimensions for reference only.  
 Not all parts are available from stock. Please contact customer service for availability (800) 626-2120.  
 For more information on bearing capabilities outside of our standard offering, please contact Application Engineering (800) 626-2093.