

# TIMKEN

Where You Turn



**PRECISION**

Cylindrical Roller Bearings | Screw Drives

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## Load Management To Meet Your Machine Tool Screw Drive Needs

Machine tool screw drives face some of the toughest conditions. Rapid acceleration. High speeds. Significant stiffness requirements. But you needn't worry. Timken® precision cylindrical roller bearings are up to the challenge for your tables on vertical and horizontal milling centers.

### Consider all that Timken® precision cylindrical roller bearings offer for screw drives:

- Greater consistency through superior static and dynamic stiffness.
- Superior running accuracy and lower operating temperature through P4 precision class.
- Easy bearing selection due to direct competitor interchange.
- Comprehensive offering, including extended shaft and flange mounting design.

With Timken on your side, you can optimize speed, precision and efficiency in your machine tool equipment. Timken precision cylindrical roller bearings for screw drives feature a combination of axial cylindrical rollers and radial needle rollers. This unique configuration helps manage loads from multiple directions during high-speed operations. Several designs make it easy to accommodate varying screw-drive designs.

### We offer five screw-drive bearing types in bore sizes ranging from 15mm to 90mm (0.59in to 3.54in), including:

- TARN: Designed for standard screw drives.
- TARN-L: Extended shaft washer allows additional sealing.
- TARN-F: Relieved outer ring allows additional sealing and flanges designed to accommodate mounting.
- TARN-FL: Extended shaft washer and relieved outer ring for additional sealing and flanges for mounting.
- TARN-T: Accommodated mounting for flanges.

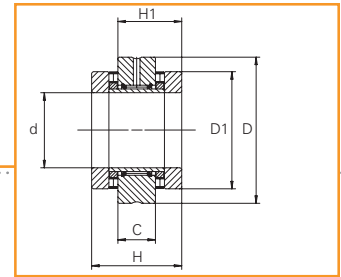


In addition, we offer a full line of friction management solutions for machine tools. From bearings, seals and lubrication to reliability, engineering and maintenance support, Timken is your one-stop shop for help in getting the most out of your operations.

Ready to learn how we can help you maximize equipment performance? Contact your Timken sales representative or visit us online at [www.Timken.com](http://www.Timken.com).

# TARN

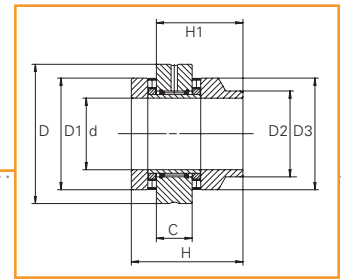
Designed for standard screw drives



|             |      |      |      |      |      |      | Load Ratings According to ISO |                     |                     |                     |                        |
|-------------|------|------|------|------|------|------|-------------------------------|---------------------|---------------------|---------------------|------------------------|
|             |      |      |      |      |      |      | Axial                         |                     | Radial              |                     | Axial Stiffness        |
| Part Number | d    | D    | H    | H1   | C    | D1   | Dy-namic                      | Static              | Dy-namic            | Static              |                        |
|             | mm.  | mm.  | mm.  | mm.  | mm.  | mm.  | kN                            | kN                  | kN                  | kN                  | kN/μm                  |
|             | in   | in   | in   | in   | in   | in   | 10 <sup>3</sup> lbf           | 10 <sup>3</sup> lbf | 10 <sup>3</sup> lbf | 10 <sup>3</sup> lbf | 10 <sup>6</sup> lbf/ft |
| TARN1545    | 15   | 45   | 40   | 28   | 16   | 35   | 25                            | 41.2                | 8.4                 | 11.1                | 1.3                    |
|             | 0.59 | 1.77 | 1.57 | 1.10 | 0.63 | 1.38 | 5.62                          | 9.26                | 1.89                | 2.50                | 89.05                  |
| TARN2052    | 20   | 52   | 46   | 31   | 16   | 42   | 32.7                          | 64.8                | 9.6                 | 14.6                | 2                      |
|             | 0.79 | 2.05 | 1.81 | 1.22 | 0.63 | 1.65 | 7.35                          | 14.57               | 2.16                | 3.28                | 137                    |
| TARN2062    | 20   | 62   | 60   | 40   | 20   | 52   | 58.8                          | 105.9               | 14.6                | 22.3                | 2.2                    |
|             | 0.79 | 2.44 | 2.36 | 1.57 | 0.79 | 2.05 | 13.22                         | 23.81               | 3.28                | 5.01                | 150.7                  |
| TARN2557    | 25   | 57   | 50   | 35   | 20   | 47   | 34.8                          | 75.2                | 13.4                | 24.5                | 1.3                    |
|             | 0.98 | 2.24 | 1.97 | 1.38 | 0.79 | 1.85 | 7.82                          | 16.91               | 3.01                | 5.51                | 89.05                  |
| TARN2572    | 25   | 72   | 60   | 40   | 20   | 62   | 74.5                          | 160.2               | 16.2                | 27.2                | 4.7                    |
|             | 0.98 | 2.83 | 2.36 | 1.57 | 0.79 | 2.44 | 16.75                         | 36.01               | 3.64                | 6.11                | 321.95                 |
| TARN3062    | 30   | 62   | 50   | 35   | 20   | 52   | 35.3                          | 81.1                | 16.2                | 27.2                | 2.4                    |
|             | 1.18 | 2.44 | 1.97 | 1.38 | 0.79 | 2.05 | 7.94                          | 18.23               | 3.64                | 6.11                | 164.4                  |
| TARN3080    | 30   | 80   | 66   | 43   | 20   | 68   | 90.4                          | 181.5               | 17.6                | 32.5                | 3.1                    |
|             | 1.18 | 3.15 | 2.60 | 1.69 | 0.79 | 2.68 | 20.32                         | 40.80               | 3.96                | 7.31                | 212.35                 |
| TARN3570    | 35   | 70   | 54   | 37   | 20   | 60   | 50.7                          | 117.5               | 17.6                | 32.5                | 2.8                    |
|             | 1.38 | 2.76 | 2.13 | 1.46 | 0.79 | 2.36 | 11.40                         | 26.42               | 3.96                | 7.31                | 191.8                  |
| TARN3585    | 35   | 85   | 66   | 43   | 20   | 73   | 98.7                          | 212.7               | 18.4                | 35.1                | 3.6                    |
|             | 1.38 | 3.35 | 2.60 | 1.69 | 0.79 | 2.87 | 22.19                         | 47.82               | 4.14                | 7.89                | 246.6                  |
| TARN4075    | 40   | 75   | 54   | 37   | 20   | 65   | 55.7                          | 138.7               | 18.4                | 35.1                | 3.3                    |
|             | 1.57 | 2.95 | 2.13 | 1.46 | 0.79 | 2.56 | 12.52                         | 31.18               | 4.14                | 7.89                | 226.05                 |
| TARN4090    | 40   | 90   | 75   | 50   | 25   | 78   | 101.8                         | 229.9               | 25.5                | 55                  | 3.8                    |
|             | 1.57 | 3.54 | 2.95 | 1.97 | 0.98 | 3.07 | 22.89                         | 51.68               | 5.73                | 12.36               | 260.3                  |
| TARN4580    | 45   | 80   | 60   | 42.5 | 25   | 70   | 56.6                          | 146.7               | 25.5                | 55                  | 3.5                    |
|             | 1.77 | 3.15 | 2.36 | 1.67 | 0.98 | 2.76 | 12.72                         | 32.98               | 5.73                | 12.36               | 239.75                 |
| TARN45105   | 45   | 105  | 82   | 53.5 | 25   | 90   | 151.3                         | 344                 | 31.8                | 54.2                | 4.7                    |
|             | 1.77 | 4.13 | 3.23 | 2.11 | 0.98 | 3.54 | 34.01                         | 77.33               | 7.15                | 12.18               | 321.95                 |
| TARN5090    | 50   | 90   | 60   | 42.5 | 25   | 78   | 84.3                          | 255.9               | 31.8                | 66.3                | 4.4                    |
|             | 1.97 | 3.54 | 2.36 | 1.67 | 0.98 | 3.07 | 18.95                         | 57.53               | 7.15                | 14.90               | 301.4                  |
| TARN50110   | 50   | 110  | 82   | 53.5 | 25   | 95   | 163.1                         | 391.2               | 35.6                | 64.5                | 5.3                    |
|             | 1.97 | 4.33 | 3.23 | 2.11 | 0.98 | 3.74 | 36.67                         | 87.95               | 8.00                | 14.50               | 363.05                 |
| TARN55115   | 55   | 115  | 82   | 53.5 | 25   | 100  | 160.8                         | 394.8               | 26.4                | 55.1                | 5.2                    |
|             | 2.17 | 4.53 | 3.23 | 2.11 | 0.98 | 3.94 | 36.15                         | 88.75               | 5.93                | 12.39               | 356.2                  |
| TARN60120   | 60   | 120  | 82   | 53.5 | 25   | 105  | 171.6                         | 442.6               | 36.1                | 84.7                | 5.8                    |
|             | 2.36 | 4.72 | 3.23 | 2.11 | 0.98 | 4.13 | 38.58                         | 99.50               | 8.12                | 19.04               | 397.3                  |
| TARN65125   | 65   | 125  | 82   | 53.5 | 25   | 110  | 175.9                         | 468                 | 54                  | 104                 | 6.1                    |
|             | 2.56 | 4.92 | 3.23 | 2.11 | 0.98 | 4.33 | 39.54                         | 105.21              | 12.14               | 23.38               | 417.85                 |
| TARN70130   | 70   | 130  | 82   | 53.5 | 25   | 115  | 180.1                         | 493.4               | 65                  | 131                 | 6.3                    |
|             | 2.76 | 5.12 | 3.23 | 2.11 | 0.98 | 4.53 | 40.49                         | 110.92              | 14.61               | 29.45               | 431.55                 |
| TARN75155   | 75   | 155  | 100  | 65   | 30   | 135  | 257.9                         | 678.6               | 79.5                | 147                 | 6.7                    |
|             | 2.95 | 6.10 | 3.94 | 2.56 | 1.18 | 5.31 | 57.98                         | 152.56              | 17.87               | 33.05               | 458.95                 |
| TARN90180   | 90   | 180  | 110  | 72.5 | 35   | 160  | 309.8                         | 876.1               | 103                 | 220                 | 8.3                    |
|             | 3.54 | 7.09 | 4.33 | 2.85 | 1.38 | 6.30 | 69.65                         | 196.96              | 23.16               | 49.46               | 568.55                 |

## TARN-L

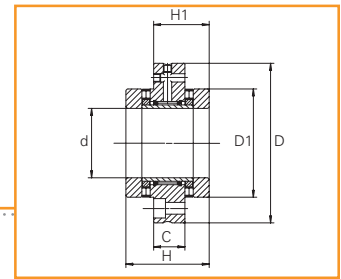
Extended shaft washer allows additional sealing



| Part Number | d    | D    | H    | H1   | C    | D1   | D2   | D3   | Load Ratings According to ISO |                     |                     |                     |                        |
|-------------|------|------|------|------|------|------|------|------|-------------------------------|---------------------|---------------------|---------------------|------------------------|
|             |      |      |      |      |      |      |      |      | Axial                         |                     | Radial              |                     | Axial Stiffness        |
|             |      |      |      |      |      |      |      |      | Dynamic                       | Static              | Dynamic             | Static              |                        |
|             | mm.  | mm.  | mm.  | mm.  | mm.  | mm.  | mm.  | mm.  | kN                            | kN                  | kN                  | kN                  | kN/μm                  |
|             | in   | in   | in   | in   | in   | in   | in   | in   | 10 <sup>3</sup> lbf           | 10 <sup>3</sup> lbf | 10 <sup>3</sup> lbf | 10 <sup>3</sup> lbf | 10 <sup>6</sup> lbf/ft |
| TARN1545L   | 15   | 45   | 53   | 41   | 16   | 35   | 24   | 34.8 | 25                            | 41.2                | 8.4                 | 11.1                | 1.3                    |
|             | 0.59 | 1.77 | 2.09 | 1.61 | 0.63 | 1.38 | 0.94 | 1.37 | 5.62                          | 9.26                | 1.89                | 2.50                | 89.05                  |
| TARN2052L   | 20   | 52   | 60   | 45   | 16   | 42   | 30   | 40   | 32.7                          | 64.8                | 9.6                 | 14.6                | 2                      |
|             | 0.79 | 2.05 | 2.36 | 1.77 | 0.63 | 1.65 | 1.18 | 1.57 | 7.35                          | 14.57               | 2.16                | 3.28                | 137                    |
| TARN2062L   | 20   | 62   | 75   | 55   | 20   | 52   | 40   | 50   | 58.8                          | 105.9               | 14.6                | 22.3                | 2.2                    |
|             | 0.79 | 2.44 | 2.95 | 2.17 | 0.79 | 2.05 | 1.57 | 1.97 | 13.22                         | 23.81               | 3.28                | 5.01                | 150.7                  |
| TARN2557L   | 25   | 57   | 65   | 50   | 20   | 47   | 36   | 45   | 34.8                          | 75.2                | 13.4                | 24.5                | 1.3                    |
|             | 0.98 | 2.24 | 2.56 | 1.97 | 0.79 | 1.85 | 1.42 | 1.77 | 7.82                          | 16.91               | 3.01                | 5.51                | 89.05                  |
| TARN2572L   | 25   | 72   | 75   | 55   | 20   | 62   | 48   | 60   | 74.5                          | 160.2               | 16.2                | 27.2                | 4.7                    |
|             | 0.98 | 2.83 | 2.95 | 2.17 | 0.79 | 2.44 | 1.89 | 2.36 | 16.75                         | 36.01               | 3.64                | 6.11                | 321.95                 |
| TARN3062L   | 30   | 62   | 65   | 50   | 20   | 52   | 40   | 50   | 35.3                          | 81.1                | 16.2                | 27.2                | 2.4                    |
|             | 1.18 | 2.44 | 2.56 | 1.97 | 0.79 | 2.05 | 1.57 | 1.97 | 7.94                          | 18.23               | 3.64                | 6.11                | 164.4                  |
| TARN3080L   | 30   | 80   | 82   | 59   | 20   | 68   | 52   | 66   | 90.4                          | 181.5               | 17.6                | 32.5                | 3.1                    |
|             | 1.18 | 3.15 | 3.23 | 2.32 | 0.79 | 2.68 | 2.05 | 2.60 | 20.32                         | 40.80               | 3.96                | 7.31                | 212.35                 |
| TARN3570L   | 35   | 70   | 70   | 53   | 20   | 60   | 45   | 58   | 50.7                          | 117.5               | 17.6                | 32.5                | 2.8                    |
|             | 1.38 | 2.76 | 2.76 | 2.09 | 0.79 | 2.36 | 1.77 | 2.28 | 11.40                         | 26.42               | 3.96                | 7.31                | 191.8                  |
| TARN3585L   | 35   | 85   | 82   | 59   | 20   | 73   | 60   | 73   | 98.7                          | 212.7               | 18.4                | 35.1                | 3.6                    |
|             | 1.38 | 3.35 | 3.23 | 2.32 | 0.79 | 2.87 | 2.36 | 2.87 | 22.19                         | 47.82               | 4.14                | 7.89                | 246.6                  |
| TARN4075L   | 40   | 75   | 70   | 53   | 20   | 65   | 50   | 63   | 55.7                          | 138.7               | 18.4                | 35.1                | 3.3                    |
|             | 1.57 | 2.95 | 2.76 | 2.09 | 0.79 | 2.56 | 1.97 | 2.48 | 12.52                         | 31.18               | 4.14                | 7.89                | 226.05                 |
| TARN4090L   | 40   | 90   | 93   | 68   | 25   | 78   | 60   | 78   | 101.8                         | 229.9               | 25.5                | 55                  | 3.8                    |
|             | 1.57 | 3.54 | 3.66 | 2.68 | 0.98 | 3.07 | 2.36 | 3.07 | 22.89                         | 51.68               | 5.73                | 12.36               | 260.3                  |
| TARN4580L   | 45   | 80   | 75   | 57.5 | 25   | 70   | 56   | 68   | 56.6                          | 146.7               | 25.5                | 55                  | 3.5                    |
|             | 1.77 | 3.15 | 2.95 | 2.26 | 0.98 | 2.76 | 2.20 | 2.68 | 12.72                         | 32.98               | 5.73                | 12.36               | 239.75                 |
| TARN45105L  | 45   | 105  | 103  | 74.5 | 25   | 90   | 70   | 88   | 151.3                         | 344                 | 31.8                | 66.3                | 4.7                    |
|             | 1.77 | 4.13 | 4.06 | 2.93 | 0.98 | 3.54 | 2.76 | 3.46 | 34.01                         | 77.33               | 7.15                | 14.90               | 321.95                 |
| TARN5090L   | 50   | 90   | 78   | 60.5 | 25   | 78   | 60   | 78   | 84.3                          | 255.9               | 31.8                | 66.3                | 4.4                    |
|             | 1.97 | 3.54 | 3.07 | 2.38 | 0.98 | 3.07 | 2.36 | 3.07 | 18.95                         | 57.53               | 7.15                | 14.90               | 301.4                  |
| TARN50110L  | 50   | 110  | 103  | 74.5 | 25   | 95   | 75   | 93   | 163.1                         | 391.2               | 35.6                | 64.5                | 5.3                    |
|             | 1.97 | 4.33 | 4.06 | 2.93 | 0.98 | 3.74 | 2.95 | 3.66 | 36.67                         | 87.95               | 8.00                | 14.50               | 363.05                 |
| TARN55115L  | 55   | 115  | 103  | 74.5 | 25   | 100  | 80   | 98   | 160.8                         | 394.8               | 26.4                | 55.1                | 5.2                    |
|             | 2.17 | 4.53 | 4.06 | 2.93 | 0.98 | 3.94 | 3.15 | 3.86 | 36.15                         | 88.75               | 5.93                | 12.39               | 356.2                  |
| TARN60120L  | 60   | 120  | 103  | 74.5 | 25   | 105  | 90   | 105  | 171.6                         | 442.6               | 36.1                | 84.7                | 5.8                    |
|             | 2.36 | 4.72 | 4.06 | 2.93 | 0.98 | 4.13 | 3.54 | 4.13 | 38.58                         | 99.50               | 8.12                | 19.04               | 397.3                  |
| TARN65125L  | 65   | 125  | 103  | 74.5 | 25   | 110  | 90   | 108  | 175.9                         | 468                 | 54                  | 104                 | 6.1                    |
|             | 2.56 | 4.92 | 4.06 | 2.93 | 0.98 | 4.33 | 3.54 | 4.25 | 39.54                         | 105.21              | 12.14               | 23.38               | 417.85                 |
| TARN70130L  | 70   | 130  | 103  | 74.5 | 25   | 115  | 100  | 115  | 180.1                         | 493.4               | 65                  | 131                 | 6.3                    |
|             | 2.76 | 5.12 | 4.06 | 2.93 | 0.98 | 4.53 | 3.94 | 4.53 | 40.49                         | 110.92              | 14.61               | 29.45               | 431.55                 |
| TARN75155L  | 75   | 155  | 125  | 90   | 30   | 135  | 115  | 135  | 257.9                         | 678.6               | 79.5                | 147                 | 6.7                    |
|             | 2.95 | 6.10 | 4.92 | 3.54 | 1.18 | 5.31 | 4.53 | 5.31 | 57.98                         | 152.56              | 17.87               | 33.05               | 458.95                 |
| TARN90180L  | 90   | 180  | 135  | 97.5 | 35   | 160  | 130  | 158  | 309.8                         | 876.1               | 103                 | 220                 | 8.3                    |
|             | 3.54 | 7.09 | 5.31 | 3.84 | 1.38 | 6.30 | 5.12 | 6.22 | 69.65                         | 196.96              | 23.16               | 49.46               | 568.55                 |

## TARF-F

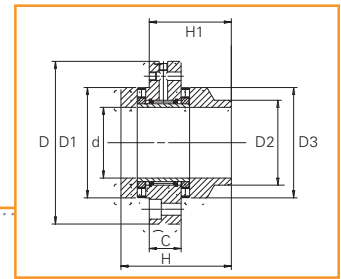
Flanges designed to accommodate mounting,  
relieved outer ring allows additional sealing



|             |      |      |      |      |      |      | Load Ratings According to ISO |                     |                     |                     |                        |
|-------------|------|------|------|------|------|------|-------------------------------|---------------------|---------------------|---------------------|------------------------|
|             |      |      |      |      |      |      | Axial                         |                     | Radial              |                     | Axial Stiffness        |
| Part Number | d    | D    | H    | H1   | C    | D1   | Dy-<br>namic                  | Static              | Dynamic             | Static              |                        |
|             | mm.  | mm.  | mm.  | mm.  | mm.  | mm.  | kN                            | kN                  | kN                  | kN                  | kN/μm                  |
|             | in   | in   | in   | in   | in   | in   | 10 <sup>3</sup> lbf           | 10 <sup>3</sup> lbf | 10 <sup>3</sup> lbf | 10 <sup>3</sup> lbf | 10 <sup>6</sup> lbf/ft |
| TARF1560F   | 15   | 60   | 40   | 26   | 14   | 35   | 25                            | 41.2                | 8.4                 | 11.1                | 1.3                    |
|             | 0.59 | 2.36 | 1.57 | 1.02 | 0.55 | 1.38 | 5.62                          | 9.26                | 1.89                | 2.50                | 89.05                  |
| TARF2080F   | 20   | 68   | 46   | 29   | 14   | 42   | 32.7                          | 64.8                | 9.6                 | 14.6                | 2                      |
|             | 0.79 | 2.68 | 1.81 | 1.14 | 0.55 | 1.65 | 7.35                          | 14.57               | 2.16                | 3.28                | 137                    |
| TARF2080F   | 20   | 80   | 60   | 38   | 18   | 52   | 58.8                          | 105.9               | 14.6                | 22.3                | 2.2                    |
|             | 0.79 | 3.15 | 2.36 | 1.50 | 0.71 | 2.05 | 13.22                         | 23.81               | 3.28                | 5.01                | 150.7                  |
| TARF2575F   | 25   | 75   | 50   | 33   | 18   | 47   | 34.8                          | 75.2                | 13.4                | 24.5                | 1.3                    |
|             | 0.98 | 2.95 | 1.97 | 1.30 | 0.71 | 1.85 | 7.82                          | 16.91               | 3.01                | 5.51                | 89.05                  |
| TARF2590F   | 25   | 90   | 60   | 38   | 18   | 62   | 74.5                          | 160.2               | 16.2                | 27.2                | 4.7                    |
|             | 0.98 | 3.54 | 2.36 | 1.50 | 0.71 | 2.44 | 16.75                         | 36.01               | 3.64                | 6.11                | 321.95                 |
| TARF3080F   | 30   | 80   | 50   | 33   | 18   | 52   | 35.3                          | 81.1                | 16.2                | 27.2                | 2.4                    |
|             | 1.18 | 3.15 | 1.97 | 1.30 | 0.71 | 2.05 | 7.94                          | 18.23               | 3.64                | 6.11                | 164.4                  |
| TARF30105F  | 30   | 105  | 66   | 41   | 18   | 68   | 90.4                          | 181.5               | 17.6                | 32.5                | 3.1                    |
|             | 1.18 | 4.13 | 2.60 | 1.61 | 0.71 | 2.68 | 20.32                         | 40.80               | 3.96                | 7.31                | 212.35                 |
| TARF3590F   | 35   | 90   | 54   | 35   | 18   | 60   | 50.7                          | 117.5               | 17.6                | 32.5                | 2.8                    |
|             | 1.38 | 3.54 | 2.13 | 1.38 | 0.71 | 2.36 | 11.40                         | 26.42               | 3.96                | 7.31                | 191.8                  |
| TARF35110F  | 35   | 110  | 66   | 41   | 18   | 73   | 98.7                          | 212.7               | 18.4                | 35.1                | 3.6                    |
|             | 1.38 | 4.33 | 2.60 | 1.61 | 0.71 | 2.87 | 22.19                         | 47.82               | 4.14                | 7.89                | 246.6                  |
| TARF40100F  | 40   | 100  | 54   | 35   | 18   | 65   | 55.7                          | 138.7               | 18.4                | 35.1                | 3.3                    |
|             | 1.57 | 3.94 | 2.13 | 1.38 | 0.71 | 2.56 | 12.52                         | 31.18               | 4.14                | 7.89                | 226.05                 |
| TARF40115F  | 40   | 115  | 75   | 47.5 | 22.5 | 78   | 101.8                         | 229.9               | 25.5                | 55                  | 3.8                    |
|             | 1.57 | 4.53 | 2.95 | 1.87 | 0.89 | 3.07 | 22.89                         | 51.68               | 5.73                | 12.36               | 260.3                  |
| TARF40105F  | 40   | 105  | 60   | 40   | 22.5 | 70   | 56.6                          | 146.7               | 25.5                | 55                  | 3.5                    |
|             | 1.57 | 4.13 | 2.36 | 1.57 | 0.89 | 2.76 | 12.72                         | 32.98               | 5.73                | 12.36               | 239.75                 |
| TARF45130F  | 45   | 130  | 82   | 51   | 22.5 | 90   | 151.3                         | 344                 | 31.8                | 66.3                | 4.7                    |
|             | 1.77 | 5.12 | 3.23 | 2.01 | 0.89 | 3.54 | 34.01                         | 77.33               | 7.15                | 14.90               | 321.95                 |
| TARF50115F  | 50   | 115  | 60   | 40   | 22.5 | 78   | 84.3                          | 255.9               | 31.8                | 66.3                | 4.4                    |
|             | 1.97 | 4.53 | 2.36 | 1.57 | 0.89 | 3.07 | 18.95                         | 57.53               | 7.15                | 14.90               | 301.4                  |
| TARF50140F  | 50   | 140  | 82   | 51   | 22.5 | 95   | 163.1                         | 391.2               | 35.6                | 64.5                | 5.3                    |
|             | 1.97 | 5.51 | 3.23 | 2.01 | 0.89 | 3.74 | 36.67                         | 87.95               | 8.00                | 14.50               | 363.05                 |
| TARF55145F  | 55   | 145  | 82   | 51   | 22.5 | 100  | 160.8                         | 394.8               | 26.4                | 55.1                | 5.2                    |
|             | 2.17 | 5.71 | 3.23 | 2.01 | 0.89 | 3.94 | 36.15                         | 88.75               | 5.93                | 12.39               | 356.2                  |
| TARF60150F  | 60   | 150  | 82   | 51   | 22.5 | 105  | 171.6                         | 442.6               | 36.1                | 84.7                | 5.8                    |
|             | 2.36 | 5.91 | 3.23 | 2.01 | 0.89 | 4.13 | 38.58                         | 99.50               | 8.12                | 19.04               | 397.3                  |
| TARF65155F  | 65   | 155  | 82   | 51   | 22.5 | 110  | 175.9                         | 468                 | 54                  | 104                 | 6.1                    |
|             | 2.56 | 6.10 | 3.23 | 2.01 | 0.89 | 4.33 | 39.54                         | 105.21              | 12.14               | 23.38               | 417.85                 |
| TARF70160F  | 70   | 160  | 82   | 51   | 22.5 | 115  | 180.1                         | 493.4               | 65                  | 131                 | 6.3                    |
|             | 2.76 | 6.30 | 3.23 | 2.01 | 0.89 | 4.53 | 40.49                         | 110.92              | 14.61               | 29.45               | 431.55                 |
| TARF75185F  | 75   | 185  | 100  | 62   | 27   | 135  | 257.9                         | 678.6               | 79.5                | 147                 | 6.7                    |
|             | 2.95 | 7.28 | 3.94 | 2.44 | 1.06 | 5.31 | 57.98                         | 152.56              | 17.87               | 33.05               | 458.95                 |
| TARF90210F  | 90   | 210  | 110  | 69.5 | 32   | 160  | 309.8                         | 876.1               | 103                 | 220                 | 8.3                    |
|             | 3.54 | 8.27 | 4.33 | 2.74 | 1.26 | 6.30 | 69.65                         | 196.96              | 23.16               | 49.46               | 568.55                 |

## TARF-FL

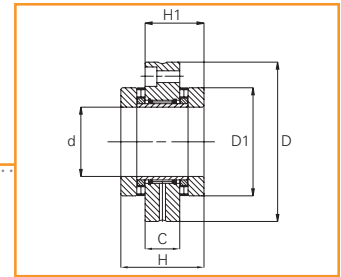
Flanges for mounting; extended shaft washer and relieved outer ring for additional sealing



|             |      |      |      |      |      |      |      |      | Load Ratings According to ISO |                     |                     |                     |                        |
|-------------|------|------|------|------|------|------|------|------|-------------------------------|---------------------|---------------------|---------------------|------------------------|
|             |      |      |      |      |      |      |      |      | Axial                         |                     | Dynamic             |                     | Axial Stiffness        |
| Part Number | d    | D    | H    | H1   | C    | D1   | D2   | D3   | Dynamic                       | Static              | Dynamic             | Static              |                        |
|             | mm.  | mm.  | mm.  | mm.  | mm.  | mm.  | mm.  | mm.  | kN                            | kN                  | kN                  | kN                  | kN/μm                  |
|             | in   | in   | in   | in   | in   | in   | in   | in   | 10 <sup>3</sup> lbf           | 10 <sup>3</sup> lbf | 10 <sup>3</sup> lbf | 10 <sup>3</sup> lbf | 10 <sup>6</sup> lbf/ft |
| TARF1560FL  | 15   | 60   | 53   | 39   | 14   | 35   | 24   | 34.8 | 25                            | 41.2                | 8.4                 | 11.1                | 1.3                    |
|             | 0.59 | 2.36 | 2.09 | 1.54 | 0.55 | 1.38 | 0.94 | 1.37 | 5.62                          | 9.26                | 1.89                | 2.50                | 89.05                  |
| TARF2068FL  | 20   | 68   | 60   | 43   | 14   | 42   | 30   | 40   | 32.7                          | 64.8                | 9.6                 | 14.6                | 2                      |
|             | 0.79 | 2.68 | 2.36 | 1.69 | 0.55 | 1.65 | 1.18 | 1.57 | 7.35                          | 14.57               | 2.16                | 3.28                | 137                    |
| TARF2080FL  | 20   | 80   | 75   | 53   | 18   | 52   | 40   | 50   | 58.8                          | 105.9               | 14.6                | 22.3                | 2.2                    |
|             | 0.79 | 3.15 | 2.95 | 2.09 | 0.71 | 2.05 | 1.57 | 1.97 | 13.22                         | 23.81               | 3.28                | 5.01                | 150.7                  |
| TARF2575FL  | 25   | 75   | 65   | 48   | 18   | 47   | 36   | 45   | 34.8                          | 75.2                | 13.4                | 24.5                | 1.3                    |
|             | 0.98 | 2.95 | 2.56 | 1.89 | 0.71 | 1.85 | 1.42 | 1.77 | 7.82                          | 16.91               | 3.01                | 5.51                | 89.05                  |
| TARF2590FL  | 25   | 90   | 75   | 53   | 18   | 62   | 48   | 60   | 74.5                          | 160.2               | 16.2                | 27.2                | 4.7                    |
|             | 0.98 | 3.54 | 2.95 | 2.09 | 0.71 | 2.44 | 1.89 | 2.36 | 16.75                         | 36.01               | 3.64                | 6.11                | 321.95                 |
| TARF3080FL  | 30   | 80   | 65   | 48   | 18   | 52   | 40   | 50   | 35.3                          | 81.1                | 16.2                | 27.2                | 2.4                    |
|             | 1.18 | 3.15 | 2.56 | 1.89 | 0.71 | 2.05 | 1.57 | 1.97 | 7.94                          | 18.23               | 3.64                | 6.11                | 164.4                  |
| TARF30105FL | 30   | 105  | 82   | 57   | 18   | 68   | 52   | 66   | 90.4                          | 181.5               | 17.6                | 32.5                | 3.1                    |
|             | 1.18 | 4.13 | 3.23 | 2.24 | 0.71 | 2.68 | 2.05 | 2.60 | 20.32                         | 40.80               | 3.96                | 7.31                | 212.35                 |
| TARF3590FL  | 35   | 90   | 70   | 51   | 18   | 60   | 45   | 58   | 50.7                          | 117.5               | 17.6                | 32.5                | 2.8                    |
|             | 1.38 | 3.54 | 2.76 | 2.01 | 0.71 | 2.36 | 1.77 | 2.28 | 11.40                         | 26.42               | 3.96                | 7.31                | 191.8                  |
| TARF35110FL | 35   | 110  | 82   | 57   | 18   | 73   | 60   | 73   | 98.7                          | 212.7               | 18.4                | 35.1                | 3.6                    |
|             | 1.38 | 4.33 | 3.23 | 2.24 | 0.71 | 2.87 | 2.36 | 2.87 | 22.19                         | 47.82               | 4.14                | 7.89                | 246.6                  |
| TARF40100FL | 40   | 100  | 70   | 51   | 18   | 65   | 50   | 63   | 55.7                          | 138.7               | 18.4                | 35.1                | 3.3                    |
|             | 1.57 | 3.94 | 2.76 | 2.01 | 0.71 | 2.56 | 1.97 | 2.48 | 12.52                         | 31.18               | 4.14                | 7.89                | 226.05                 |
| TARF40115FL | 40   | 115  | 93   | 65.5 | 22.5 | 78   | 60   | 78   | 101.8                         | 229.9               | 25.5                | 55                  | 3.8                    |
|             | 1.57 | 4.53 | 3.66 | 2.58 | 0.89 | 3.07 | 2.36 | 3.07 | 22.89                         | 51.68               | 5.73                | 12.36               | 260.3                  |
| TARF45105FL | 45   | 105  | 75   | 55   | 22.5 | 70   | 56   | 68   | 56.6                          | 146.7               | 25.5                | 55                  | 3.5                    |
|             | 1.77 | 4.13 | 2.95 | 2.17 | 0.89 | 2.76 | 2.20 | 2.68 | 12.72                         | 32.98               | 5.73                | 12.36               | 239.75                 |
| TARF45130FL | 45   | 130  | 103  | 72   | 22.5 | 90   | 70   | 88   | 151.3                         | 344                 | 31.8                | 66.3                | 4.7                    |
|             | 1.77 | 5.12 | 4.06 | 2.83 | 0.89 | 3.54 | 2.76 | 3.46 | 34.01                         | 77.33               | 7.15                | 14.90               | 321.95                 |
| TARF50115FL | 50   | 115  | 78   | 58   | 22.5 | 78   | 60   | 78   | 84.3                          | 255.9               | 31.8                | 66.3                | 4.4                    |
|             | 1.97 | 4.53 | 3.07 | 2.28 | 0.89 | 3.07 | 2.36 | 3.07 | 18.95                         | 57.53               | 7.15                | 14.90               | 301.4                  |
| TARF50140FL | 50   | 140  | 103  | 72   | 22.5 | 95   | 75   | 93   | 163.1                         | 391.2               | 35.6                | 64.5                | 5.3                    |
|             | 1.97 | 5.51 | 4.06 | 2.83 | 0.89 | 3.74 | 2.95 | 3.66 | 36.67                         | 87.95               | 8.00                | 14.50               | 363.05                 |
| TARF55145FL | 55   | 145  | 103  | 72   | 22.5 | 100  | 80   | 98   | 160.8                         | 394.8               | 26.4                | 55.1                | 5.2                    |
|             | 2.17 | 5.71 | 4.06 | 2.83 | 0.89 | 3.94 | 3.15 | 3.86 | 36.15                         | 88.75               | 5.93                | 12.39               | 356.2                  |
| TARF60150FL | 60   | 150  | 103  | 72   | 22.5 | 105  | 90   | 105  | 171.6                         | 442.6               | 36.1                | 84.7                | 5.8                    |
|             | 2.36 | 5.91 | 4.06 | 2.83 | 0.89 | 4.13 | 3.54 | 4.13 | 38.58                         | 99.50               | 8.12                | 19.04               | 397.3                  |
| TARF65155FL | 65   | 155  | 103  | 72   | 22.5 | 110  | 90   | 108  | 175.9                         | 468                 | 54                  | 104                 | 6.1                    |
|             | 2.56 | 6.10 | 4.06 | 2.83 | 0.89 | 4.33 | 3.54 | 4.25 | 39.54                         | 105.21              | 12.14               | 23.38               | 417.85                 |
| TARF70160FL | 70   | 160  | 103  | 72   | 22.5 | 115  | 100  | 115  | 180.1                         | 493.4               | 65                  | 131                 | 6.3                    |
|             | 2.76 | 6.30 | 4.06 | 2.83 | 0.89 | 4.53 | 3.94 | 4.53 | 40.49                         | 110.92              | 14.61               | 29.45               | 431.55                 |
| TARF75185FL | 75   | 185  | 125  | 87   | 27   | 135  | 115  | 135  | 257.9                         | 678.6               | 79.5                | 147                 | 6.7                    |
|             | 2.95 | 7.28 | 4.92 | 3.43 | 1.06 | 5.31 | 4.53 | 5.31 | 57.98                         | 152.56              | 17.87               | 33.05               | 458.95                 |
| TARF90210FL | 90   | 210  | 135  | 94.5 | 32   | 160  | 130  | 158  | 309.8                         | 876.1               | 103                 | 220                 | 8.3                    |
|             | 3.54 | 8.27 | 5.31 | 3.72 | 1.26 | 6.30 | 5.12 | 6.22 | 69.65                         | 196.96              | 23.16               | 49.46               | 568.55                 |

## TARN-T

Flanges designed to accommodate mounting



|             |      |      |      |      |      |      | Load Ratings According to ISO |                     |                     |                     |                        |
|-------------|------|------|------|------|------|------|-------------------------------|---------------------|---------------------|---------------------|------------------------|
|             |      |      |      |      |      |      | Axial                         |                     | Radial              |                     | Axial Stiffness        |
| Part Number | d    | D    | H    | H1   | C    | D1   | Dynamic                       | Static              | Dynamic             | Static              |                        |
|             | mm.  | mm.  | mm.  | mm.  | mm.  | mm.  | kN                            | kN                  | kN                  | kN                  |                        |
|             | in   | in   | in   | in   | in   | in   | 10 <sup>3</sup> lbf           | 10 <sup>3</sup> lbf | 10 <sup>3</sup> lbf | 10 <sup>3</sup> lbf | 10 <sup>6</sup> lbf/ft |
| TARN1560T   | 15   | 60   | 46   | 31   | 16   | 35   | 25                            | 41.2                | 8.4                 | 11.1                | 1.3                    |
|             | 0.59 | 2.36 | 1.81 | 1.22 | 0.63 | 1.38 | 5.62                          | 9.26                | 1.89                | 2.50                | 89.05                  |
| TARN2068T   | 20   | 68   | 46   | 31   | 16   | 42   | 32.7                          | 64.8                | 9.6                 | 14.6                | 2                      |
|             | 0.79 | 2.68 | 1.81 | 1.22 | 0.63 | 1.65 | 7.35                          | 14.57               | 2.16                | 3.28                | 137                    |
| TARN2080T   | 20   | 80   | 60   | 40   | 20   | 52   | 58.8                          | 105.9               | 14.6                | 22.3                | 2.2                    |
|             | 0.79 | 3.15 | 2.36 | 1.57 | 0.79 | 2.05 | 13.22                         | 23.81               | 3.28                | 5.01                | 150.7                  |
| TARN2575T   | 25   | 75   | 50   | 35   | 20   | 47   | 34.8                          | 75.2                | 13.4                | 24.5                | 1.3                    |
|             | 0.98 | 2.95 | 1.97 | 1.38 | 0.79 | 1.85 | 7.82                          | 16.91               | 3.01                | 5.51                | 89.05                  |
| TARN2590T   | 25   | 90   | 60   | 40   | 20   | 62   | 74.5                          | 160.2               | 16.2                | 27.2                | 4.7                    |
|             | 0.98 | 3.54 | 2.36 | 1.57 | 0.79 | 2.44 | 16.75                         | 36.01               | 3.64                | 6.11                | 321.95                 |
| TARN3080T   | 30   | 80   | 50   | 35   | 20   | 53.4 | 35.3                          | 81.1                | 16.2                | 27.2                | 2.4                    |
|             | 1.18 | 3.15 | 1.97 | 1.38 | 0.79 | 2.10 | 7.94                          | 18.23               | 3.64                | 6.11                | 164.4                  |
| TARN30105T  | 30   | 105  | 66   | 43   | 20   | 68   | 90.4                          | 181.5               | 17.6                | 32.5                | 3.1                    |
|             | 1.18 | 4.13 | 2.60 | 1.69 | 0.79 | 2.68 | 20.32                         | 40.80               | 3.96                | 7.31                | 212.35                 |
| TARN3590T   | 35   | 90   | 54   | 37   | 20   | 60.4 | 50.7                          | 117.5               | 17.6                | 32.5                | 2.8                    |
|             | 1.38 | 3.54 | 2.13 | 1.46 | 0.79 | 2.38 | 11.40                         | 26.42               | 3.96                | 7.31                | 191.8                  |
| TARN35110T  | 35   | 110  | 66   | 43   | 20   | 73   | 98.7                          | 212.7               | 18.4                | 35.1                | 3.6                    |
|             | 1.38 | 4.33 | 2.60 | 1.69 | 0.79 | 2.87 | 22.19                         | 47.82               | 4.14                | 7.89                | 246.6                  |
| TARN40100T  | 40   | 100  | 54   | 37   | 20   | 65.4 | 55.7                          | 138.7               | 18.4                | 35.1                | 3.3                    |
|             | 1.57 | 3.94 | 2.13 | 1.46 | 0.79 | 2.57 | 12.52                         | 31.18               | 4.14                | 7.89                | 226.05                 |
| TARN40115T  | 40   | 115  | 75   | 50   | 25   | 78   | 101.8                         | 229.9               | 25.5                | 55                  | 3.8                    |
|             | 1.57 | 4.53 | 2.95 | 1.97 | 0.98 | 3.07 | 22.89                         | 51.68               | 5.73                | 12.36               | 260.3                  |
| TARN45105T  | 45   | 105  | 60   | 42.5 | 25   | 70.4 | 56.6                          | 146.7               | 25.5                | 55                  | 3.5                    |
|             | 1.77 | 4.13 | 2.36 | 1.67 | 0.98 | 2.77 | 12.72                         | 32.98               | 5.73                | 12.36               | 239.75                 |
| TARN45130T  | 45   | 130  | 82   | 53.5 | 25   | 90   | 151.3                         | 344                 | 31.8                | 66.3                | 4.7                    |
|             | 1.77 | 5.12 | 3.23 | 2.11 | 0.98 | 3.54 | 34.01                         | 77.33               | 7.15                | 14.90               | 321.95                 |
| TARN50115T  | 50   | 115  | 60   | 42.5 | 25   | 78.4 | 84.3                          | 255.9               | 31.8                | 66.3                | 4.4                    |
|             | 1.97 | 4.53 | 2.36 | 1.67 | 0.98 | 3.09 | 18.95                         | 57.53               | 7.15                | 14.90               | 301.4                  |
| TARN50140T  | 50   | 140  | 82   | 53.5 | 25   | 95   | 163.1                         | 391.2               | 35.6                | 64.5                | 5.3                    |
|             | 1.97 | 5.51 | 3.23 | 2.11 | 0.98 | 3.74 | 36.67                         | 87.95               | 8.00                | 14.50               | 363.05                 |
| TARN55145T  | 55   | 145  | 82   | 53.5 | 25   | 100  | 160.8                         | 394.8               | 26.4                | 55.1                | 5.2                    |
|             | 2.17 | 5.71 | 3.23 | 2.11 | 0.98 | 3.94 | 36.15                         | 88.75               | 5.93                | 12.39               | 356.2                  |
| TARN60150T  | 60   | 150  | 82   | 53.5 | 25   | 105  | 171.6                         | 442.6               | 36.1                | 84.7                | 5.8                    |
|             | 2.36 | 5.91 | 3.23 | 2.11 | 0.98 | 4.13 | 38.58                         | 99.50               | 8.12                | 19.04               | 397.3                  |
| TARN65155T  | 65   | 155  | 82   | 53.5 | 25   | 110  | 175.9                         | 468                 | 54                  | 104                 | 6.1                    |
|             | 2.56 | 6.10 | 3.23 | 2.11 | 0.98 | 4.33 | 39.54                         | 105.21              | 12.14               | 23.38               | 417.85                 |
| TARN70160T  | 70   | 160  | 82   | 53.5 | 25   | 115  | 180.1                         | 493.4               | 65                  | 131                 | 6.3                    |
|             | 2.76 | 6.30 | 3.23 | 2.11 | 0.98 | 4.53 | 40.49                         | 110.92              | 14.61               | 29.45               | 431.55                 |
| TARN75185T  | 75   | 185  | 100  | 65   | 30   | 135  | 257.9                         | 678.6               | 79.5                | 147                 | 6.7                    |
|             | 2.95 | 7.28 | 3.94 | 2.56 | 1.18 | 5.31 | 57.98                         | 152.56              | 17.87               | 33.05               | 458.95                 |
| TARN90210T  | 90   | 210  | 110  | 72.5 | 35   | 160  | 309.8                         | 876.1               | 103                 | 220                 | 8.3                    |
|             | 3.54 | 8.27 | 4.33 | 2.85 | 1.38 | 6.30 | 69.65                         | 196.96              | 23.16               | 49.46               | 568.55                 |



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