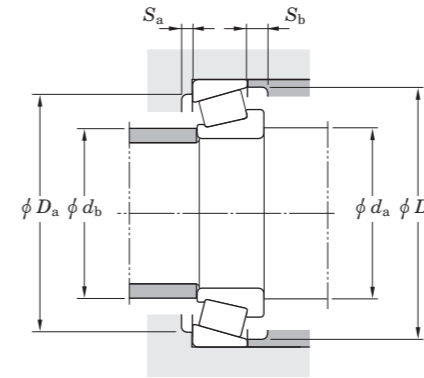
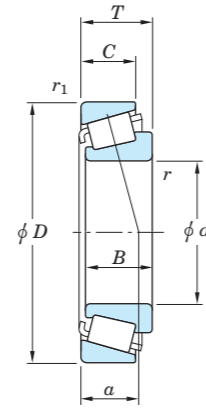


**TS type**  
**d (40.000) ~ (41.275) mm**  
**(1.5748) ~ (1.6250) inch**



$$P = XF_r + YF_a$$

$$P_0 = 0.5 F_r + Y_0 F_a \text{ or } P_0 = F_r$$

| $F_a / F_r \leq e$ |   | $F_a / F_r > e$ |       |
|--------------------|---|-----------------|-------|
| X                  | Y | X               | Y     |
| 1                  | 0 | 0.4             | $Y_1$ |

Note) The Values of "e", "Y<sub>1</sub>" and "Y<sub>0</sub>" are given in the table below.

| Boundary dimensions |        |         |        |        |                        |                        |                |                 |                |     |      |     | Basic load ratings (kN) |      | Fatigue load limit (kN) | Cone (Inner ring) | Cup (Outer ring) | Load center    |                | Mounting dimensions |       |      |      |      |      | Constant | Axial load factors |      | Reference rating (kN) |      | Factor |      |      |      |
|---------------------|--------|---------|--------|--------|------------------------|------------------------|----------------|-----------------|----------------|-----|------|-----|-------------------------|------|-------------------------|-------------------|------------------|----------------|----------------|---------------------|-------|------|------|------|------|----------|--------------------|------|-----------------------|------|--------|------|------|------|
| d                   | D      | T       | B      | C      | r <sup>1)</sup> (min.) | r <sup>1)</sup> (min.) | C <sub>r</sub> | C <sub>0r</sub> | C <sub>a</sub> | a   | da   | db  | Da                      | Db   | e                       |                   |                  | Y <sub>1</sub> | Y <sub>0</sub> | Radial              | Axial | K    |      |      |      |          |                    |      |                       |      |        |      |      |      |
| 40.000              | 1.5748 | 85.725  | 3.3750 | 30.162 | 1.1875                 | 30.162                 | 1.1875         | 23.812          | 0.9375         | 0.8 | 0.03 | 1.2 | 0.05                    | 135  | 136                     | 20.3              | 3879             | 3821           | 22.9           | 0.90                | 51.0  | 2.01 | 50.0 | 1.97 | 75.0 | 2.95     | 81.0               | 3.19 | 0.40                  | 1.49 | 0.82   | 31.5 | 21.7 | 1.46 |
|                     | 1.5748 | 87.312  | 3.4375 | 30.162 | 1.1875                 | 30.886                 | 1.2160         | 23.812          | 0.9375         | 3.6 | 0.14 | 3.2 | 0.13                    | 120  | 120                     | 18.2              | 3582R            | 3525           | 20.5           | 0.81                | 53.0  | 2.09 | 48.5 | 1.91 | 75.0 | 2.95     | 81.0               | 3.19 | 0.31                  | 1.96 | 1.08   | 27.9 | 14.6 | 1.91 |
|                     | 1.5748 | 88.501  | 3.4843 | 26.988 | 1.0625                 | 29.083                 | 1.1450         | 22.225          | 0.8750         | 3.6 | 0.14 | 1.6 | 0.06                    | 123  | 112                     | 17.2              | 420              | 414            | 16.9           | 0.67                | 52.0  | 2.05 | 46.0 | 1.81 | 77.0 | 3.03     | 80.0               | 3.15 | 0.26                  | 2.28 | 1.25   | 28.6 | 12.9 | 2.22 |
|                     | 1.5748 | 90.119  | 3.5480 | 23.000 | 0.9055                 | 21.692                 | 0.8540         | 21.808          | 0.8586         | 4.0 | 0.16 | 2.4 | 0.09                    | 89.6 | 81.7                    | 12.4              | 350              | 352            | 17.8           | 0.70                | 54.0  | 2.13 | 46.5 | 1.83 | 78.0 | 3.07     | 82.0               | 3.23 | 0.31                  | 1.96 | 1.08   | 20.7 | 10.8 | 1.91 |
|                     | 1.5748 | 95.250  | 3.7500 | 27.783 | 1.0938                 | 29.901                 | 1.1772         | 22.225          | 0.8750         | 3.6 | 0.14 | 2.4 | 0.09                    | 129  | 122                     | 18.8              | 442S             | 432            | 23.6           | 0.93                | 54.0  | 2.13 | 49.0 | 1.93 | 83.0 | 3.27     | 87.0               | 3.43 | 0.28                  | 2.11 | 1.16   | 30.0 | 14.6 | 2.06 |
|                     | 1.5748 | 107.950 | 4.2500 | 36.512 | 1.4375                 | 36.957                 | 1.4550         | 28.575          | 1.1250         | 3.6 | 0.14 | 3.2 | 0.13                    | 172  | 172                     | 26.8              | 543              | 532X           | 23.9           | 0.94                | 57.0  | 2.24 | 50.0 | 1.97 | 94.0 | 3.70     | 100.0              | 3.94 | 0.30                  | 2.03 | 1.11   | 40.4 | 20.5 | 1.97 |
| 40.483              | 1.5938 | 82.550  | 3.2500 | 29.370 | 1.1563                 | 28.575                 | 1.1250         | 23.020          | 0.9063         | 3.6 | 0.14 | 3.2 | 0.13                    | 109  | 117                     | 16.9              | HM801349         | HM801310       | 24.4           | 0.96                | 58.0  | 2.28 | 49.0 | 1.93 | 68.0 | 2.68     | 78.0               | 3.07 | 0.55                  | 1.10 | 0.60   | 25.5 | 23.8 | 1.07 |
| 41.275              | 1.6250 | 73.025  | 2.8750 | 16.667 | 0.6562                 | 17.462                 | 0.6875         | 12.700          | 0.5000         | 3.6 | 0.14 | 1.6 | 0.06                    | 57.6 | 55.8                    | 8.15              | 18590            | 18520          | 14.5           | 0.57                | 53.0  | 2.09 | 46.0 | 1.81 | 66.0 | 2.60     | 69.0               | 2.72 | 0.35                  | 1.71 | 0.94   | 13.2 | 7.90 | 1.67 |
|                     | 1.6250 | 73.025  | 2.8750 | 16.667 | 0.6562                 | 17.462                 | 0.6875         | 12.700          | 0.5000         | 1.2 | 0.05 | 1.6 | 0.06                    | 57.6 | 55.8                    | 8.15              | 18591            | 18520          | 14.5           | 0.57                | 47.5  | 1.87 | 46.0 | 1.81 | 66.0 | 2.60     | 69.0               | 2.72 | 0.35                  | 1.71 | 0.94   | 13.2 | 7.90 | 1.67 |
|                     | 1.6250 | 73.431  | 2.8910 | 19.558 | 0.7700                 | 19.812                 | 0.7800         | 14.732          | 0.5800         | 3.6 | 0.14 | 0.8 | 0.03                    | 72.5 | 73.0                    | 10.6              | LM501349         | LM501310       | 16.1           | 0.63                | 53.0  | 2.09 | 46.5 | 1.83 | 67.0 | 2.64     | 70.0               | 2.76 | 0.40                  | 1.50 | 0.83   | 16.7 | 11.4 | 1.46 |
|                     | 1.6250 | 73.431  | 2.8910 | 21.430 | 0.8437                 | 19.812                 | 0.7800         | 16.604          | 0.6537         | 3.6 | 0.14 | 0.8 | 0.03                    | 72.5 | 73.0                    | 10.6              | LM501349         | LM501314       | 18.0           | 0.71                | 53.0  | 2.09 | 46.5 | 1.83 | 66.0 | 2.60     | 70.0               | 2.76 | 0.40                  | 1.50 | 0.83   | 16.7 | 11.4 | 1.46 |
|                     | 1.6250 | 73.431  | 2.8910 | 23.012 | 0.9060                 | 19.812                 | 0.7800         | 18.186          | 0.7160         | 3.6 | 0.14 | 2.4 | 0.09                    | 72.5 | 73.0                    | 10.6              | LM501349         | LM501311       | 16.1           | 0.63                | 53.0  | 2.09 | 46.5 | 1.83 | 64.0 | 2.52     | 70.0               | 2.76 | 0.40                  | 1.50 | 0.83   | 16.7 | 11.4 | 1.46 |
|                     | 1.6250 | 76.200  | 3.0000 | 18.009 | 0.7090                 | 17.384                 | 0.6844         | 14.288          | 0.5625         | 1.6 | 0.06 | 1.6 | 0.06                    | 64.7 | 63.3                    | 9.15              | 11162R           | 11300          | 17.5           | 0.69                | 49.0  | 1.93 | 46.5 | 1.83 | 67.0 | 2.64     | 72.0               | 2.83 | 0.49                  | 1.23 | 0.68   | 14.9 | 12.4 | 1.20 |
|                     | 1.6250 | 76.200  | 3.0000 | 18.009 | 0.7090                 | 17.384                 | 0.6844         | 14.288          | 0.5625         | 1.6 | 0.06 | 1.6 | 0.06                    | 64.7 | 63.3                    | 9.15              | 11162UR          | 11300          | 17.5           | 0.69                | 49.0  | 1.93 | 46.0 | 1.81 | 67.0 | 2.64     | 72.0               | 2.83 | 0.49                  | 1.23 | 0.68   | 14.9 | 12.4 | 1.20 |
|                     | 1.6250 | 76.200  | 3.0000 | 18.009 | 0.7090                 | 17.384                 | 0.6844         | 14.288          | 0.5625         | 0.8 | 0.03 | 1.6 | 0.06                    | 64.7 | 63.3                    | 9.15              | 11163R           | 11300          | 17.5           | 0.69                | 47.0  | 1.85 | 46.5 | 1.83 | 67.0 | 2.64     | 72.0               | 2.83 | 0.49                  | 1.23 | 0.68   | 14.9 | 12.4 | 1.20 |
|                     | 1.6250 | 76.200  | 3.0000 | 22.225 | 0.8750                 | 17.462                 | 0.6875         | 17.462          | 0.6875         | 3.6 | 0.14 | 0.8 | 0.03                    | 82.9 | 83.3                    | 12.3              | 24780R           | 24720          | 17.4           | 0.69                | 54.0  | 2.13 | 47.0 | 1.85 | 68.0 | 2.68     | 72.0               | 2.83 | 0.39                  | 1.53 | 0.84   | 19.2 | 12.9 | 1.49 |
|                     | 1.6250 | 76.200  | 3.0000 | 22.225 | 0.8750                 | 23.020                 | 0.9063         | 17.462          | 0.6875         | 3.6 | 0.14 | 3.2 | 0.13                    | 82.9 | 83.3                    | 12.3              | 24780R           | 24722          | 17.4           | 0.69                | 54.0  | 2.13 | 47.0 | 1.85 | 66.0 | 2.60     | 72.0               | 2.83 | 0.39                  | 1.53 | 0.84   | 19.2 | 12.9 | 1.49 |
|                     | 1.6250 | 76.200  | 3.0000 | 22.225 | 0.8750                 | 23.020                 | 0.9063         | 17.462          | 0.6875         | 0.8 | 0.03 | 0.8 | 0.03                    | 82.9 | 83.3                    | 12.3              | 24781R           | 24720          | 17.4           | 0.69                | 47.0  | 1.85 | 47.0 | 1.85 | 68.0 | 2.68     | 72.0               | 2.83 | 0.39                  | 1.53 | 0.84   | 19.2 | 12.9 | 1.49 |
|                     | 1.6250 | 76.200  | 3.0000 | 25.400 | 1.0000                 | 23.020                 | 0.9063         | 20.638          | 0.8125         | 3.6 | 0.14 | 2.4 | 0.09                    | 82.9 | 83.3                    | 12.3              | 24780R           | 24721          | 20.6           | 0.81                | 54.0  | 2.13 | 47.0 | 1.85 | 66.0 | 2.60     | 72.0               | 2.83 | 0.39                  | 1.53 | 0.84   | 19.2 | 12.9 | 1.49 |
|                     | 1.6250 | 80.000  | 3.1496 | 21.000 | 0.8268                 | 22.403                 | 0.8820         | 17.826          | 0.7018         | 0.8 | 0.03 | 1.2 | 0.05                    | 85.0 | 74.8                    | 11.4              | 336              | 332            | 15.1           | 0.59                | 47.0  | 1.85 | 46.0 | 1.81 | 73.0 | 2.87     | 75.0               | 2.95 | 0.27                  | 2.20 | 1.21   | 19.6 | 9.15 | 2.14 |
|                     | 1.6250 | 80.000  | 3.1496 | 21.000 | 0.8268                 | 22.403                 | 0.8820         | 17.826          | 0.7018         | 3.6 | 0.14 | 1.2 | 0.05                    | 85.0 | 74.8                    | 11.4              | 342              | 332            | 15.1           | 0.59                | 53.0  | 2.09 | 46.0 | 1.81 | 73.0 | 2.87     | 75.0               | 2.95 | 0.27                  | 2.20 | 1.21   | 19.6 | 9.15 | 2.14 |
|                     | 1.6250 | 80.000  | 3.1496 | 28.575 | 1.1250                 | 29.977                 | 1.1802         | 17.826          | 0.7018         | 3.6 | 0.14 | 1.2 | 0.05                    | 85.0 | 74.8                    | 11.4              | 342A             | 332            | 22.7           | 0.89                | 53.0  | 2.09 | 46.0 | 1.81 | 73.0 | 2.87     | 75.0               | 2.95 | 0.27                  | 2.20 | 1.21   | 19.6 | 9.15 | 2.14 |
|                     | 1.6250 | 80.000  | 3.1496 | 31.750 | 1.2500                 | 29.977                 | 1.1802         | 21.000          | 0.8268         | 3.6 | 0.14 | 2.4 | 0.09                    | 85.0 | 74.8                    | 11.4              | 342A             | 332A           | 22.7           | 0.89                | 53.0  | 2.09 | 46.0 | 1.81 | 71.0 | 2.80     | 75.0               | 2.95 | 0.27                  | 2.20 | 1.21   | 19.6 | 9.15 | 2.14 |
|                     | 1.6250 | 80.167  | 3.1562 | 25.400 | 1.0000                 | 25.400                 | 1.0000         | 20.638          | 0.8125         | 0.8 | 0.03 | 3.2 | 0.13                    | 101  | 105                     | 15.8              | 26885R           | 26820          | 17.9           | 0.70                | 48.0  | 1.89 | 47.0 | 1.85 | 69.0 | 2.72     | 74.0               | 2.91 | 0.32                  | 1.88 | 1.04   | 23.5 | 12.8 | 1.83 |
|                     | 1.6250 | 80.167  | 3.1562 | 29.370 | 1.1563                 | 25.400                 | 1.0000         | 24.608          | 0.9688         | 3.6 | 0.14 | 3.2 | 0.13                    | 101  | 105                     | 15.8              | 26882R           | 26821          | 17.9           | 0.70                | 54.0  | 2.13 | 47.0 | 1.85 | 68.0 | 2.68     | 74.0               | 2.91 | 0.32                  | 1.88 | 1.04   | 23.5 | 12.8 | 1.83 |
|                     | 1.6250 | 82.550  | 3.2500 | 26.543 | 1.0450                 | 25.654                 | 1.0100         | 20.193          | 0.7950         | 3.6 | 0.14 | 3.2 | 0.13                    | 105  | 105                     | 15.4              | M802048          | M802011        | 23.3           | 0.92                | 57.0  | 2.24 | 50.6 | 1.99 | 70.0 | 2.76     | 79.0               | 3.11 | 0.55                  | 1.10 | 0.60   | 24.2 | 22.6 | 1.07 |
|                     | 1.6250 | 84.138  | 3.3125 | 29.370 | 1.1563                 | 30.391                 | 1.1965         | 23.812          | 0.9375         | 3.6 | 0.14 | 3.2 | 0.13                    | 114  | 106                     | 16.2              | 3383             | 3328           | 18.7           | 0.74                | 52.0  | 2.05 | 46.0 | 1.81 | 72.0 | 2.83     | 76.0               | 2.99 | 0.27                  | 2.20 | 1.21   | 26.6 | 12.4 | 2.14 |
|                     | 1.6250 | 84.138  | 3.3125 | 29.370 | 1.1563                 | 30.391                 | 1.1965         | 23.812          | 0.9375         | 0.8 | 0.03 | 3.2 | 0.13                    | 114  | 106                     | 16.2              | 3384             | 3328           | 18.7           | 0.74                | 48.0  | 1.89 | 41.5 | 1.63 | 72.0 | 2.83     | 76.0               | 2.99 | 0.27                  | 2.20 | 1.21   | 26.6 | 12.4 | 2.14 |
|                     | 1.6250 | 84.138  | 3.3125 | 30.162 | 1.1875                 | 30.886                 | 1.2160         | 23.812          | 0.9375         | 3.6 | 0.14 | 3.2 | 0.13                    | 120  | 120                     | 18.2              | 3577R            | 3520           | 20.5           | 0.81                | 54.0  | 2.13 | 48.0 | 1.89 | 74.0 | 2.91     | 79.5               | 3.13 | 0.31                  | 1.96 | 1.08   | 27.9 | 14.6 | 1.91 |
|                     | 1.6250 | 84.138  | 3.3125 | 30.162 | 1.1875                 | 30.886                 | 1.2160         | 23.812          | 0.9375         | 1.6 | 0.06 | 3.2 | 0.13                    | 120  | 120                     | 18.2              | 3585R            | 3520           | 20.5           | 0.81                | 50.0  | 1.97 | 48.0 | 1.89 | 74.0 | 2.91     | 79.5               | 3.13 | 0.31                  | 1.96 | 1.08   | 27.9 | 14.6 | 1.91 |
|                     | 1.6250 | 85.725  | 3.3750 | 30.162 | 1.1875                 | 30.162                 | 1.1875         | 23.812          | 0.9375         | 3.6 | 0.14 | 1.2 | 0.05                    | 135  | 136                     | 20.3              | 3877             | 3821           | 22.9           | 0.90                | 57.0  | 2.24 | 50.3 | 1.98 | 75.0 | 2.95     | 81.0               | 3.19 | 0.40                  | 1.49 | 0.82   | 31.5 | 21.7 | 1.46 |
|                     | 1.6250 | 85.725  |        |        |                        |                        |                |                 |                |     |      |     |                         |      |                         |                   |                  |                |                |                     |       |      |      |      |      |          |                    |      |                       |      |        |      |      |      |