

# BRTF

Data sheet - rev. 1.0

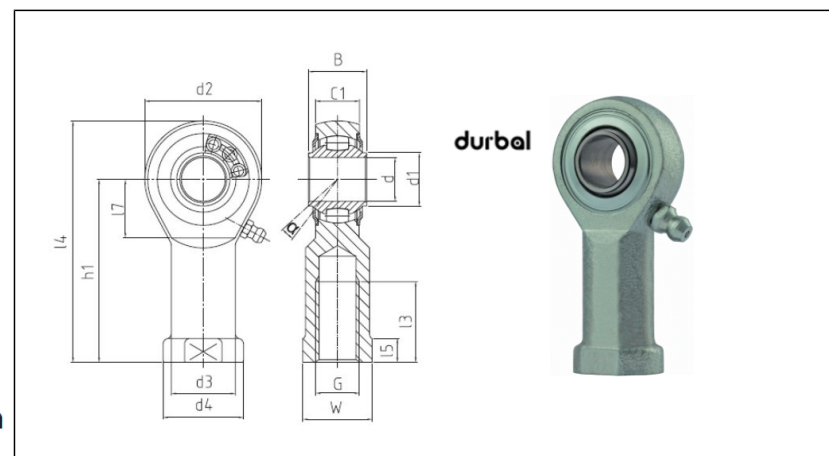
## Rod Ends - Premium Line

Rod ends with roller bearing, cage design, female thread, series K, DIN ISO 12240-4 & 8139, low maintenance, lubrication possible

## FEATURES AND ADVANTAGES

- **HOUSING:** 17Cr3 forged steel, case hardened bearing race, superfinished, surface galvanized, free of Cr VI
- **INNER RING:** 100Cr6 ball bearing steel, hardened, superfinished
- **ROLLING ELEMENT:** 100Cr6 ball bearing steel, hardened, superfinished
- **MAINTENANCE:** low maintenance, lubrication possible, aluminium-complex-soap-grease, approval according to USDA H1
- **GREASE NIPPLE:** DIN 3405 D1/A (until size 10) / DIN 71 412 H1 (from size 12), further grease nipples
- **TEMPERATURE RANGE:** -45° C to +120° C
- **USE & MAINTENANCE :** [see this page](#)
- **STATIC LOAD SERVICE LIFE :** [see this page](#)
- **TOLERANCES :** [see this page](#)

## COMPONENTS AND DIMENSIONS



| Type                      |                           | Measurements [mm] |          |    |      |      |      |     |      |    |    |       |       |     |    |    | Tilt angle   | Rotational speed limit         | Axial factor |    | Basic load rating |              | Radial clearance | Weight |
|---------------------------|---------------------------|-------------------|----------|----|------|------|------|-----|------|----|----|-------|-------|-----|----|----|--------------|--------------------------------|--------------|----|-------------------|--------------|------------------|--------|
| Right hand thread         | Left hand thread          | d                 | G        | B  | C1   | h/h1 | d1   | d2  | d3   | d4 | dk | l1/13 | l2/14 | l5  | l7 | W  | $\alpha$ (°) | $n_{max}$ (min <sup>-1</sup> ) | Y            | Y0 | dyn C (kN)        | stat C0 (kN) | CN (µm)          | kg     |
| <b>BRTF 10 - 00 - 501</b> | <b>BRTF 10 - 00 - 502</b> | 10                | M10      | 14 | 10.5 | 43   | 12.7 | 28  | 15   | 19 | -  | 20    | 57    | 6.5 | 15 | 17 | 8            | 1225                           | 9.5          | 5  | 9.5               | 5.4          | 10-30            | 0.07   |
| <b>BRTF 10 - 01 - 501</b> | <b>BRTF 10 - 01 - 502</b> | 10                | M10x1.25 | 14 | 10.5 | 43   | 12.7 | 28  | 15   | 19 | -  | 20    | 57    | 6.5 | 15 | 17 | 8            | 1225                           | 9.5          | 5  | 9.5               | 5.4          | 10-30            | 0.07   |
| <b>BRTF 12 - 00 - 501</b> | <b>BRTF 12 - 00 - 502</b> | 12                | M12      | 16 | 12   | 50   | 14.6 | 32  | 17.5 | 22 | -  | 22    | 66    | 6.5 | 16 | 19 | 7            | 1125                           | 9.5          | 5  | 10.3              | 6.6          | 10-30            | 0.11   |
| <b>BRTF 12 - 01 - 501</b> | <b>BRTF 12 - 01 - 502</b> | 12                | M12x1.25 | 16 | 12   | 50   | 14.6 | 32  | 17.5 | 22 | -  | 22    | 66    | 6.5 | 16 | 19 | 7            | 1125                           | 9.5          | 5  | 10.3              | 6.6          | 10-30            | 0.11   |
| <b>BRTF 16 - 00 - 501</b> | <b>BRTF 16 - 00 - 502</b> | 16                | M16      | 21 | 15   | 64   | 19   | 42  | 22   | 27 | -  | 28    | 85    | 8   | 22 | 22 | 7            | 975                            | 9.5          | 5  | 13.3              | 8.9          | 10-30            | 0.22   |
| <b>BRTF 16 - 01 - 501</b> | <b>BRTF 16 - 01 - 502</b> | 16                | M16x1.5  | 21 | 15   | 64   | 19   | 42  | 22   | 27 | -  | 28    | 85    | 8   | 22 | 22 | 7            | 975                            | 9.5          | 5  | 13.3              | 8.9          | 10-30            | 0.22   |
| <b>BRTF 20 - 00 - 501</b> | <b>BRTF 20 - 00 - 502</b> | 20                | M20x1.5  | 25 | 18   | 77   | 24.3 | 50  | 27.5 | 34 | -  | 33    | 102   | 10  | 26 | 30 | 7            | 825                            | 9.5          | 5  | 17                | 11.7         | 10-30            | 0.36   |
| <b>BRTF 25 - 00 - 501</b> | <b>BRTF 25 - 00 - 502</b> | 25                | M24x2    | 31 | 22   | 94   | 30.1 | 64  | 30   | 35 | -  | 42    | 126   | 10  | 32 | 30 | 5            | 600                            | 9.5          | 5  | 24.9              | 18.5         | 10-30            | 0.57   |
| <b>BRTF 30 - 00 - 501</b> | <b>BRTF 30 - 00 - 502</b> | 30                | M30x2    | 37 | 25   | 110  | 34.5 | 70  | 40   | 50 | -  | 51    | 145   | 15  | 35 | 41 | 7.5          | 450                            | 9.5          | 5  | 32.5              | 24.9         | 10-30            | 1      |
| <b>BRTF 35 - 00 - 501</b> | <b>BRTF 35 - 00 - 502</b> | 35                | M36x3    | 48 | 35   | 137  | 44.5 | 90  | 51   | 65 | -  | 70    | 182   | 20  | 48 | 50 | 7            | 400                            | 9.5          | 5  | 50.1              | 37           | 10-30            | 2.25   |
| <b>BRTF 40 - 00 - 501</b> | <b>BRTF 40 - 00 - 502</b> | 40                | M40x3    | 66 | 49   | 170  | 60   | 120 | 58   | 70 | -  | 80    | 230   | 22  | 70 | 60 | 7            | 360                            | 9.5          | 5  | 104.9             | 79.2         | 10-30            | 4.65   |

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