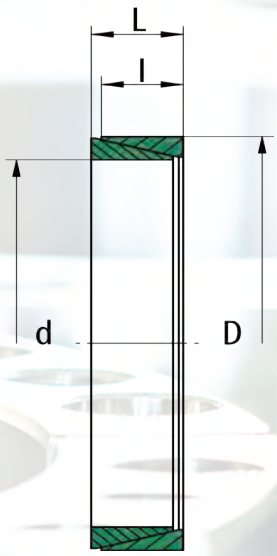
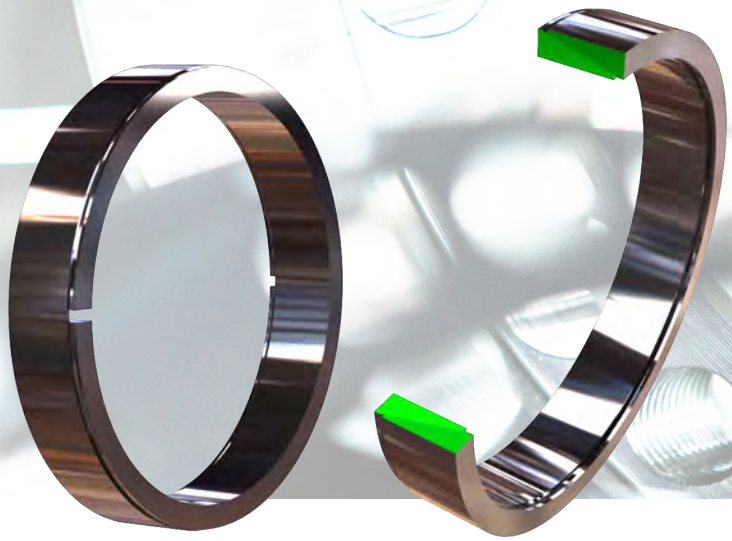
# 8006



## Used symbols

| | | |
|---|---|---|
| d | [mm] | Shaft diameter |
| D | [mm] | Hub inside diameter |
| L | [mm] | Lenght of the locking divece |
| l | [mm] | Width of inner ring and outer ring |
| $A_t$ | [mm²] | Contact surface of the shaft |
| $F_o$ | [N] | Pretension to eliminate tolerances (for unslitted version) |
| $F_A$ | [N] | Clamping force required to apply pressure of p = 100 N/mm² |
| T | [Nm] | Max. transmittable torque (at p = 100 N/mm²) $F_{ax}$ = 0 |
| $F_{ax}$ | [N] | Max. transmittable axial force (at p = 100 N/mm²) T = 0 |
| x | [mm] | Distance between clampings flange and hub in relation to the number of clamping elements |
| $d_1$ | [mm] | inner diameter spacer bushing |
| $D_1$ | [mm] | outer diameter spacer bushing |

## More properties

- axial displacement during assembly
- good self-centering
- no self-locking

## Recommended tolerances & surfaces

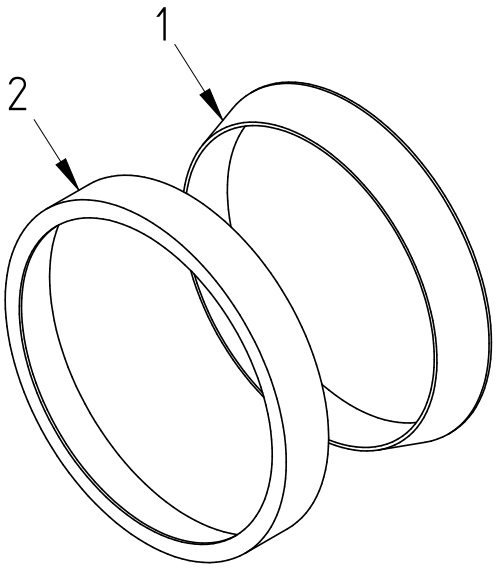
| | |
|---|---|
| Shaft | < d 38mm h6 / > d 40mm h8 / Rz10 |
| Hub | < d 38mm H7 / > d 40mm H8 / Rz10 |

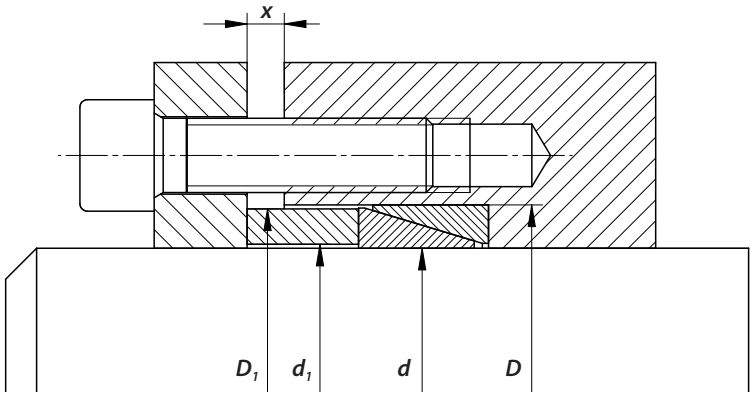
## Bending loads

Bending moment (share)
Depending on hub design and number of clamping elements

**Ordering information: TAS 8006/d/D** (z.B: TAS 8006/150/200 ...further sizes on request)
**TAS 8006/d/D slotted** (e.g: TAS 8006/150/200 slotted ... further sizes on request)

# 8006




**When arranging several elements, ensure that there is no mutual inhibition.**

| Pos. | Designation |
|---|---|
| 1 | Inner ring |
| 2 | Outter ring |

| d | | D | L | l | $A_t$ | $F_o$ | $F_A$ | T | $F_{ax}$ | x 1 | x 2 | x 3 | x 4 | Weight | $d_1$ | $D_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | mm | mm | mm | mm² | N | N | Nm | N | Locking elements mm | | | | kg | mm | mm |
| 6 | x | 9 | 4,5 | 3,7 | 69 | - | 3240 | 2,16 | 720 | 2 | 2 | 3 | 3 | 0,00118 | 6,1 | 8,9 |
| 7 | x | 10 | 4,5 | 3,7 | 80 | - | 3780 | 2,94 | 840 | 2 | 2 | 3 | 3 | 0,00136 | 7,1 | 9,9 |
| 8 | x | 11 | 4,5 | 3,7 | 90 | - | 4300 | 3,84 | 960 | 2 | 2 | 3 | 3 | 0,00151 | 8,1 | 10,9 |
| 9 | x | 12 | 4,5 | 3,7 | 105 | 7600 | 5700 | 5,7 | 1270 | 2 | 2 | 3 | 3 | 0,00166 | 9,1 | 11,9 |
| 10 | x | 13 | 4,5 | 3,7 | 116 | 6950 | 6300 | 7 | 1400 | 2 | 2 | 3 | 3 | 0,00182 | 10,1 | 12,9 |
| 12 | x | 15 | 4,5 | 3,7 | 139 | 6950 | 7500 | 10 | 1670 | 2 | 2 | 3 | 3 | 0,00214 | 12,1 | 14,9 |
| 13 | x | 16 | 4,5 | 3,7 | 151 | 6450 | 8150 | 11,8 | 1810 | 2 | 2 | 3 | 3 | 0,00226 | 13,1 | 15,9 |
| 14 | x | 18 | 6,3 | 5,3 | 233 | 11200 | 12600 | 19,6 | 2800 | 3 | 3 | 4 | 5 | 0,00487 | 14,1 | 17,9 |
| 15 | x | 19 | 6,3 | 5,3 | 250 | 10750 | 13500 | 22,5 | 3000 | 3 | 3 | 4 | 5 | 0,00526 | 15,1 | 18,9 |
| 16 | x | 20 | 6,3 | 5,3 | 266 | 10100 | 14400 | 25,5 | 3190 | 3 | 3 | 4 | 5 | 0,00545 | 16,1 | 19,9 |
| 17 | x | 21 | 6,3 | 5,3 | 283 | 9550 | 15300 | 28,9 | 3400 | 3 | 3 | 4 | 5 | 0,0058 | 17,1 | 20,9 |
| 18 | x | 22 | 6,3 | 5,3 | 300 | 9100 | 16200 | 32,4 | 3600 | 3 | 3 | 4 | 5 | 0,00612 | 18,1 | 21,9 |
| 19 | x | 24 | 6,3 | 5,3 | 316 | 12600 | 17100 | 36 | 3790 | 3 | 3 | 4 | 5 | 0,00782 | 19,2 | 23,8 |
| 20 | x | 25 | 6,3 | 5,3 | 333 | 12050 | 18000 | 40 | 4000 | 3 | 3 | 4 | 5 | 0,00817 | 20,2 | 24,8 |
| 22 | x | 26 | 6,3 | 5,3 | 366 | 9050 | 19800 | 48 | 4400 | 3 | 3 | 4 | 5 | 0,00724 | 22,2 | 25,8 |
| 24 | x | 28 | 6,3 | 5,3 | 400 | 8350 | 21600 | 58 | 4800 | 3 | 3 | 4 | 5 | 0,00792 | 24,2 | 27,8 |
| 25 | x | 30 | 6,3 | 5,3 | 416 | 9900 | 22500 | 62 | 5000 | 3 | 3 | 4 | 5 | 0,0101 | 25,2 | 29,8 |
| 28 | x | 32 | 6,3 | 5,3 | 466 | 7400 | 25200 | 78 | 5600 | 3 | 3 | 4 | 5 | 0,00918 | 28,2 | 31,8 |
| 30 | x | 35 | 6,3 | 5,3 | 499 | 8500 | 27000 | 90 | 6000 | 3 | 3 | 4 | 5 | 0,012 | 30,2 | 34,8 |
| 32 | x | 36 | 6,3 | 5,3 | 533 | 7850 | 28800 | 102 | 6400 | 3 | 3 | 4 | 5 | 0,01 | 32,2 | 35,8 |
| 35 | x | 40 | 7 | 6 | 659 | 10100 | 35600 | 138 | 7900 | 3 | 3 | 4 | 5 | 0,017 | 35,2 | 39,8 |
| 36 | x | 42 | 7 | 6 | 678 | 11600 | 36600 | 147 | 8200 | 3 | 3 | 4 | 5 | 0,02 | 36,2 | 41,8 |
| 38 | x | 44 | 7 | 6 | 716 | 11000 | 38700 | 163 | 8600 | 3 | 3 | 4 | 5 | 0,021 | 38,2 | 43,8 |
| 40 | x | 45 | 8 | 6,6 | 829 | 13800 | 45000 | 199 | 9950 | 3 | 4 | 5 | 6 | 0,023 | 40,2 | 44,8 |
| 42 | x | 48 | 8 | 6,6 | 870 | 15600 | 47000 | 219 | 10400 | 3 | 4 | 5 | 6 | 0,028 | 42,2 | 47,8 |

# 8006

| d | | D | L | l | $A_t$ | $F_o$ | $F_A$ | T | $F_{ax}$ | x 1 | x 2 | x 3 | x 4 | Weight | $d_1$ | $D_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | | mm | mm | mm | $mm^2$ | N | N | Nm | N | Locking elements mm | | | | kg | mm | mm |
| 45 | x | 52 | 10 | 8,6 | 1215 | 28200 | 66000 | 328 | 14600 | 3 | 4 | 5 | 6 | 0,042 | 45,2 | 51,8 |
| 48 | x | 55 | 10 | 8,6 | 1296 | 24600 | 70000 | 373 | 15600 | 3 | 4 | 5 | 6 | 0,045 | 48,2 | 54,8 |
| 50 | x | 57 | 10 | 8,6 | 1350 | 23500 | 73000 | 405 | 16200 | 3 | 4 | 5 | 6 | 0,047 | 50,2 | 56,8 |
| 55 | x | 62 | 10 | 8,6 | 1485 | 21800 | 80000 | 490 | 17800 | 3 | 4 | 5 | 6 | 0,05 | 55,2 | 61,8 |
| 56 | x | 64 | 12 | 10,4 | 1829 | 29400 | 99000 | 615 | 22000 | 3 | 4 | 5 | 7 | 0,067 | 56,2 | 63,8 |
| 60 | x | 68 | 12 | 10,4 | 1959 | 27400 | 106000 | 705 | 23500 | 3 | 4 | 5 | 7 | 0,072 | 60,2 | 67,8 |
| 63 | x | 71 | 12 | 10,4 | 2057 | 26300 | 111000 | 780 | 24800 | 3 | 4 | 5 | 7 | 0,077 | 63,2 | 70,8 |
| 65 | x | 73 | 12 | 10,4 | 2123 | 25400 | 115000 | 830 | 25600 | 3 | 4 | 5 | 7 | 0,079 | 65,2 | 72,8 |
| 70 | x | 79 | 14 | 12,2 | 2682 | 31000 | 145000 | 1120 | 32000 | 3 | 5 | 6 | 7 | 0,111 | 70,3 | 78,7 |
| 71 | x | 80 | 14 | 12,2 | 2720 | 31000 | 147000 | 1160 | 32600 | 3 | 5 | 6 | 7 | 0,113 | 71,3 | 79,7 |
| 75 | x | 84 | 14 | 12,2 | 2873 | 34600 | 155000 | 1290 | 34400 | 3 | 5 | 6 | 7 | 0,12 | 75,3 | 83,7 |
| 80 | x | 91 | 17 | 15 | 3768 | 48000 | 203000 | 1810 | 45000 | 4 | 5 | 6 | 8 | 0,188 | 80,3 | 90,7 |
| 85 | x | 96 | 17 | 15 | 4004 | 45600 | 216000 | 2040 | 48000 | 4 | 5 | 6 | 8 | 0,2 | 85,3 | 95,7 |
| 90 | x | 101 | 17 | 15 | 4239 | 43400 | 229000 | 2290 | 51000 | 4 | 5 | 6 | 8 | 0,216 | 90,3 | 100,7 |
| 95 | x | 106 | 17 | 15 | 4475 | 41200 | 242000 | 2550 | 54000 | 4 | 5 | 6 | 8 | 0,224 | 95,3 | 105,7 |
| 100 | x | 114 | 21 | 18,7 | 5872 | 60700 | 317000 | 3520 | 70000 | 4 | 6 | 7 | 9 | 0,38 | 100,3 | 113,7 |
| 110 | x | 124 | 21 | 18,7 | 6459 | 66000 | 349000 | 4250 | 77000 | 4 | 6 | 7 | 9 | 0,41 | 110,3 | 123,7 |
| 120 | x | 134 | 21 | 18,7 | 7046 | 60200 | 380000 | 5050 | 84000 | 4 | 6 | 7 | 9 | 0,452 | 120,3 | 133,7 |
| 130 | x | 148 | 28 | 25,3 | 10328 | 96200 | 558000 | 8050 | 124000 | 5 | 7 | 9 | 11 | 0,847 | 130,3 | 147,6 |
| 140 | x | 158 | 28 | 25,3 | 11122 | 89000 | 600000 | 9350 | 134000 | 5 | 7 | 9 | 11 | 0,91 | 140,3 | 157,6 |
| 150 | x | 168 | 28 | 25,3 | 11916 | 84500 | 643000 | 10700 | 143000 | 5 | 7 | 9 | 11 | 0,967 | 150,4 | 167,6 |
| 160 | x | 178 | 28 | 25,3 | 12711 | 78500 | 686000 | 12200 | 152500 | 5 | 7 | 9 | 11 | 1,023 | 160,4 | 177,6 |
| 170 | x | 191 | 33 | 30 | 16014 | 117500 | 865000 | 16300 | 192000 | 6 | 8 | 10 | 12 | 1,5 | 170,4 | 190,5 |
| 180 | x | 201 | 33 | 30 | 16956 | 111200 | 916000 | 18300 | 204000 | 6 | 8 | 10 | 12 | 1,58 | 180,5 | 200,5 |
| 190 | x | 211 | 33 | 30 | 17898 | 105000 | 966000 | 20400 | 214000 | 6 | 8 | 10 | 12 | 1,68 | 190,5 | 210,5 |
| 200 | x | 224 | 38 | 34,8 | 21854 | 134000 | 1180000 | 26200 | 262000 | 6 | 8 | 11 | 13 | 2,32 | 200,6 | 223,4 |
| 210 | x | 234 | 38 | 34,8 | 22947 | 127000 | 1239000 | 28900 | 275000 | 6 | 8 | 11 | 13 | 2,45 | 210,6 | 233,4 |
| 220 | x | 244 | 38 | 34,8 | 24040 | 122000 | 1298000 | 31700 | 288000 | 6 | 8 | 11 | 13 | 2,49 | 220,6 | 243,4 |
| 230 | x | 257 | 43 | 39,5 | 28527 | 165000 | 1540000 | 39400 | 342000 | 6 | 9 | 12 | 14 | 3,38 | 230,6 | 256,4 |
| 240 | x | 267 | 43 | 39,5 | 29767 | 157500 | 1610000 | 43000 | 358000 | 6 | 9 | 12 | 14 | 3,52 | 240,6 | 266,4 |
| 250 | x | 280 | 48 | 44 | 34700 | 190000 | 1870000 | 52000 | 415000 | 7 | 10 | 13 | 16 | 4,68 | 250,8 | 279,2 |
| 260 | x | 290 | 48 | 44 | 36100 | 182000 | 1950000 | 56500 | 435000 | 7 | 10 | 13 | 16 | 4,82 | 260,8 | 289,2 |
| 270 | x | 300 | 48 | 44 | 37500 | 177000 | 2030000 | 61000 | 450000 | 7 | 10 | 13 | 16 | 4,94 | 270,8 | 299,2 |
| 280 | x | 313 | 53 | 49 | 43100 | 206000 | 2330000 | 72500 | 520000 | 7 | 10 | 14 | 17 | 6,27 | 280,8 | 312,2 |
| 290 | x | 323 | 53 | 49 | 44600 | 222000 | 2410000 | 77500 | 535000 | 7 | 11 | 14 | 17 | 6,5 | 290,8 | 332,2 |
| 300 | x | 333 | 53 | 49 | 46200 | 214000 | 2490000 | 83000 | 555000 | 7 | 11 | 14 | 17 | 6,74 | 300,8 | 322,2 |
| 320 | x | 360 | 65 | 59 | 59300 | 292000 | 3200000 | 114000 | 710000 | 10 | 15 | 20 | 25 | 10,9 | 321 | 359 |
| 340 | x | 380 | 65 | 59 | 63000 | 272000 | 3400000 | 128500 | 755000 | 10 | 15 | 20 | 25 | 11,5 | 341 | 379 |
| 360 | x | 400 | 65 | 59 | 66700 | 258000 | 3600000 | 144000 | 800000 | 10 | 15 | 20 | 25 | 12,2 | 361 | 399 |
| 380 | x | 420 | 65 | 59 | 70400 | 269000 | 3800000 | 160500 | 845000 | 10 | 15 | 20 | 25 | 12,8 | 381 | 419 |
| 400 | x | 440 | 65 | 59 | 74200 | 256000 | 4000000 | 178000 | 890000 | 10 | 15 | 20 | 25 | 13,5 | 401 | 439 |
| 420 | x | 460 | 65 | 59 | 77800 | 244000 | 4200000 | 196000 | 935000 | 10 | 15 | 20 | 25 | 14,1 | 421 | 459 |
| 440 | x | 480 | 65 | 59 | 81500 | 234000 | 4400000 | 215000 | 980000 | 10 | 15 | 20 | 25 | 14,7 | 441 | 479 |
| 460 | x | 500 | 65 | 59 | 85300 | 224000 | 4600000 | 235000 | 1020000 | 10 | 15 | 20 | 25 | 15,4 | 461 | 499 |
| 480 | x | 520 | 65 | 59 | 89000 | 239000 | 4800000 | 256000 | 1070000 | 10 | 15 | 20 | 25 | 16 | 481 | 519 |
| 500 | x | 540 | 65 | 59 | 92700 | 229000 | 5000000 | 278000 | 1110000 | 10 | 15 | 20 | 25 | 16,6 | 501 | 539 |