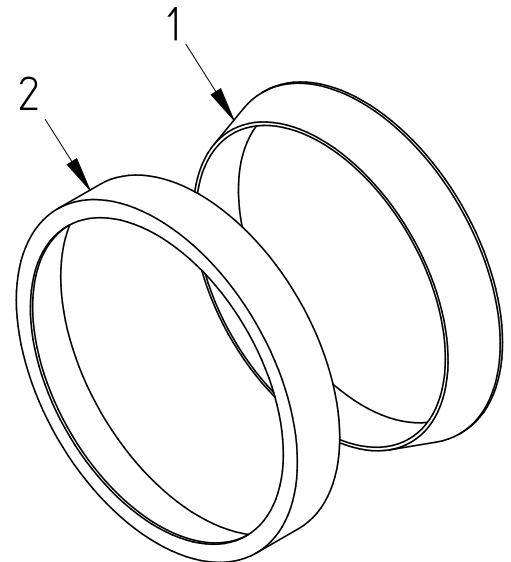


# 8006



## Used symbols

|          |                    |   |
|----------|--------------------|---|
| $d$      | [mm]               | Shaft diameter  |
| $D$      | [mm]               | Hub inside diameter   |
| $L$      | [mm]               | Length of the locking device  |
| $l$      | [mm]               | Width of inner ring and outer ring  |
| $A_t$    | [mm <sup>2</sup> ] | 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 $p = 100 \text{ N/mm}^2$                   |
| $T$      | [Nm]               | Max. transmittable torque (at $p = 100 \text{ N/mm}^2$ ) $F_{ax} = 0$                   |
| $F_{ax}$ | [N]                | Max. transmittable axial force (at $p = 100 \text{ N/mm}^2$ ) $T = 0$                   |
| $x$      | [mm]               | Distance between clamping 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   |



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

## Recommended tolerances & surfaces

|       |           |
|-------|-----------|
| Shaft | h8 / Rz10 |
| Hub   | H8 / Rz10 |

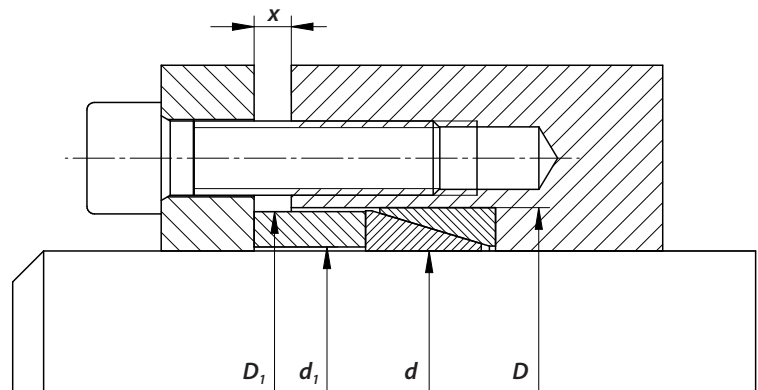
## Bending loads

Bending moment (share)

Depending on hub design and number of clamping elements

## More properties

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



Ordering information: TAS 8006/d/D (for example: TAS 8006/150/200 ... further sizes on request)

TAS 8006/d/D slit (for example: TAS 8006/150/200 slit ... further sizes on request)

# 8006

| d   | D     | L   | l    | A <sub>t</sub>  | F <sub>o</sub> | F <sub>A</sub> | T    | F <sub>ax</sub> | x                   |   |   |    | Weight  | d <sub>1</sub> | D <sub>1</sub> |
|-----|-------|-----|------|-----------------|----------------|----------------|------|-----------------|---------------------|---|---|----|---------|----------------|----------------|
|     |       |     |      |                 |                |                |      |                 | 1                   | 2 | 3 | 4  |         |                |                |
| mm  | mm    | mm  | mm   | mm <sup>2</sup> | N              | N              | Nm   | N               | Spannelemente<br>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           |
| 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          |

# 8006

| <b>d</b> | <b>D</b> | <b>L</b> | <b>l</b> | <b>A<sub>t</sub></b> | <b>F<sub>o</sub></b> | <b>F<sub>A</sub></b> | <b>T</b> | <b>F<sub>ax</sub></b> | <b>x</b>            |          |          |          | <b>Weight</b> | <b>d<sub>1</sub></b> | <b>D<sub>1</sub></b> |
|----------|----------|----------|----------|----------------------|----------------------|----------------------|----------|-----------------------|---------------------|----------|----------|----------|---------------|----------------------|----------------------|
|          |          |          |          |                      |                      |                      |          |                       | <b>1</b>            | <b>2</b> | <b>3</b> | <b>4</b> |               |                      |                      |
| mm       | mm       | mm       | mm       | mm <sup>2</sup>      | N                    | N                    | Nm       | N                     | Spannelemente<br>mm |          |          |          | kg            | mm                   | mm                   |
| 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                  |