

# AS



## TYPE

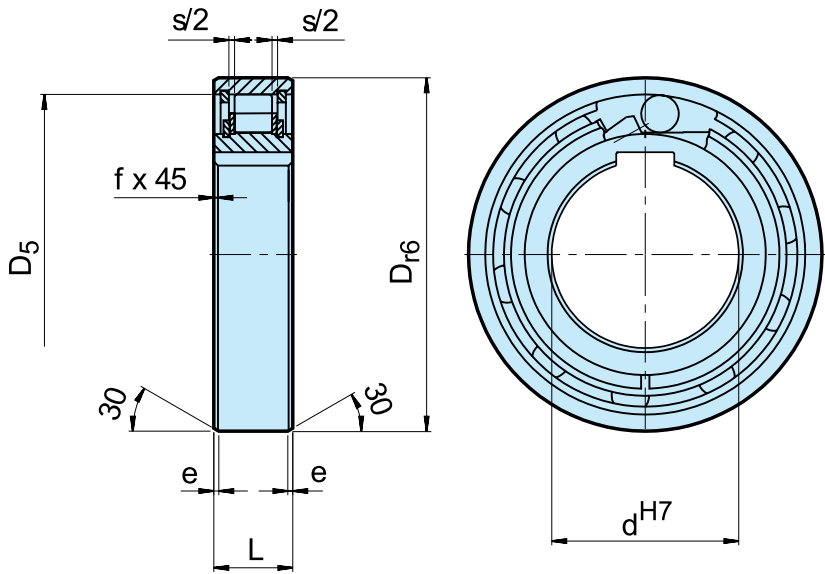


Type AS is a roller type freewheel non-bearing supported. Bearings are required to support axial and radial loads. Lubrication and sealing must also be provided by the installation. Nominal outside dimensions are the same as series 62.. ball bearings.

A typical arrangement is to install this type alongside a series 62 bearing within the same location tolerances, as shown on the following page.

The inner race is keyed to the shaft (except 6 mm bore). The outer race has a positive R6 tolerance to give a press fit in a H7 housing. The outer housing must be strong enough to not expand after assembly. This design can accept an axial misalignment of inner and outer race of  $\pm S/2$ .

AS



| Type     | Size             |                       | Overrunning speeds                      |                                         |                  |               |             |             |             |             | Weight | Drag torque    |
|----------|------------------|-----------------------|-----------------------------------------|-----------------------------------------|------------------|---------------|-------------|-------------|-------------|-------------|--------|----------------|
|          | $d^{H7}$<br>[mm] | $T_{KN}^{1)}$<br>[Nm] | $n_{imax}^{2)}$<br>[min <sup>-1</sup> ] | $n_{amax}^{3)}$<br>[min <sup>-1</sup> ] | $D_{r6}$<br>[mm] | $D_5$<br>[mm] | $L$<br>[mm] | $s$<br>[mm] | $e$<br>[mm] | $f$<br>[mm] | [kg]   | $T_R$<br>[Ncm] |
| AS (NSS) | 6                | 2,10                  | 5000                                    | 7500                                    | 19               | 15,8          | 6           | 0,3         | 0,6         | 0,3         | 0,01   | 0,18           |
|          | 8                | 3,8                   | 4300                                    | 6500                                    | 24               | 20            | 8           | 1,3         | 0,6         | 0,6         | 0,02   | 0,24           |
|          | 10               | 6,8                   | 3500                                    | 5200                                    | 30               | 25,9          | 9           | 1,3         | 0,6         | 0,6         | 0,03   | 0,36           |
|          | 12               | 13                    | 3200                                    | 4800                                    | 32               | 28            | 10          | 1,3         | 0,6         | 0,6         | 0,04   | 0,48           |
|          | 15               | 14                    | 2800                                    | 4300                                    | 35               | 31            | 11          | 1,4         | 0,6         | 0,6         | 0,05   | 0,70           |
|          | 20               | 40                    | 2200                                    | 3300                                    | 47               | 40            | 14          | 2,4         | 0,8         | 0,8         | 0,12   | 1,4            |
|          | 25               | 56                    | 1900                                    | 2900                                    | 52               | 45,9          | 15          | 2,4         | 0,8         | 0,8         | 0,14   | 2,4            |
|          | 30               | 90                    | 1600                                    | 2400                                    | 62               | 55            | 16          | 2,4         | 0,8         | 1           | 0,22   | 7,8            |
|          | 35               | 143                   | 1300                                    | 2000                                    | 72               | 64            | 17          | 2,5         | 0,8         | 1           | 0,31   | 9,0            |
|          | 40               | 185                   | 1200                                    | 1800                                    | 80               | 72            | 18          | 2,5         | 0,8         | 1           | 0,39   | 10             |
|          | 45               | 218                   | 1000                                    | 1600                                    | 85               | 77            | 19          | 2,5         | 1,2         | 1           | 0,44   | 11             |
|          | 50               | 230                   | 950                                     | 1500                                    | 90               | 82            | 20          | 2,5         | 1,2         | 1           | 0,49   | 13             |
|          | 55               | 308                   | 800                                     | 1300                                    | 100              | 90            | 21          | 2,5         | 1,2         | 1           | 0,66   | 14             |
|          | 60               | 508                   | 700                                     | 1100                                    | 110              | 100           | 22          | 2,5         | 1,2         | 1,5         | 0,81   | 26             |
|          | 80               | 1063                  | 600                                     | 900                                     | 140              | 128           | 26          | 2,5         | 1,2         | 1,5         | 1,41   | 58             |

NOTES

AS6 without keyway.  $\varnothing D = \begin{smallmatrix} -0 \\ -0,009 \end{smallmatrix}$   
AS8-12 keyway to DIN 6885.1,  
other sizes to DIN 6885.3

1)  $T_{max} = 2 \times T_{KN}$   
» Refer to Selection page 7 to 11

2) Inner race overruns

3) Outer race overruns

Mounting dimensions are identical to ball bearings  
series 62.  
» Refer to mounting and maintenance instructions  
page 12 to 13

MOUNTING EXAMPLE

