

# Self-Contained Freewheels

## AV



### TYPE



Type AV is a roller type freewheel. It is self-contained, centered by plain bearings for low rotational speeds, and sealed using shield protected metallic labyrinth seals

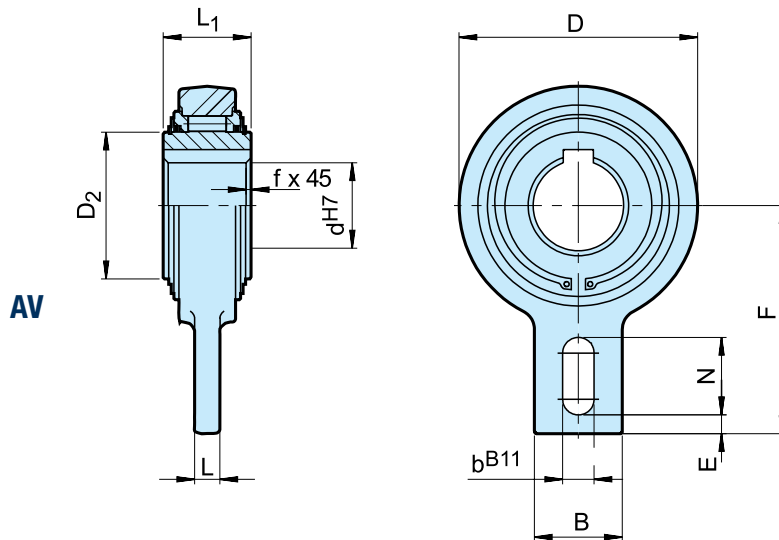
Unit is delivered grease lubricated, ready to install in a horizontal or vertical position. Primarily used as a backstop, the torque capacity is high for a minimum space requirement. This design is suitable for use in difficult environments.

A bolt, secured to a fixed part of the machine and passing through the slot in the torque arm, provides the rotational stop. Radial clearance on this bolt should be equal to 1–3 % of the slot width.

The torque arm and the bearings must not be prestressed. The roller design makes the AV type ideal for light indexing applications.

# Self-Contained Freewheels

AV



| Type | Size             | Overrunning speed     |                                    |           |                        |                        |           |           |           |              |           |           |           | Weight | Drag torque             |
|------|------------------|-----------------------|------------------------------------|-----------|------------------------|------------------------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|--------|-------------------------|
|      | $d_{H7}$<br>[mm] | $T_{KN}^{1)}$<br>[Nm] | $n_{imax}$<br>[min <sup>-1</sup> ] | D<br>[mm] | D <sub>2</sub><br>[mm] | L <sub>1</sub><br>[mm] | L<br>[mm] | B<br>[mm] | F<br>[mm] | bB11<br>[mm] | N<br>[mm] | E<br>[mm] | f<br>[mm] | [kg]   | T <sub>R</sub><br>[Ncm] |
| AV   | 20               | 265                   | 450                                | 83        | 42                     | 35                     | 12        | 40        | 90        | 15           | 35        | 5         | 0,8       | 1,3    | 18                      |
|      | 25               | 265                   | 450                                | 83        | 42                     | 35                     | 12        | 40        | 90        | 15           | 35        | 5         | 0,8       | 1,3    | 18                      |
|      | 30               | 1200                  | 320                                | 118       | 60                     | 54                     | 15        | 40        | 110       | 15           | 35        | 8         | 1         | 3,5    | 130                     |
|      | 35               | 1200                  | 320                                | 118       | 60                     | 54                     | 15        | 40        | 110       | 15           | 35        | 8         | 1         | 3,4    | 130                     |
|      | 40               | 1200                  | 320                                | 118       | 60                     | 54                     | 15        | 40        | 110       | 15           | 35        | 8         | 1         | 3,3    | 130                     |
|      | 45               | 2150                  | 280                                | 155       | 90                     | 54                     | 20        | 80        | 140       | 18           | 47        | 10        | 1         | 5,5    | 240                     |
|      | 50               | 2150                  | 280                                | 155       | 90                     | 54                     | 20        | 80        | 140       | 18           | 47        | 10        | 1         | 5,4    | 240                     |
|      | 55               | 2150                  | 280                                | 155       | 90                     | 54                     | 20        | 80        | 140       | 18           | 47        | 10        | 1         | 5,3    | 240                     |
|      | 60               | 2150                  | 280                                | 155       | 90                     | 54                     | 20        | 80        | 140       | 18           | 47        | 10        | 1         | 5,2    | 240                     |
|      | 70               | 2150                  | 280                                | 155       | 90                     | 54                     | 20        | 80        | 140       | 18           | 47        | 10        | 1         | 5,0    | 240                     |
|      | 80               | 2900                  | 200                                | 190       | 110                    | 64                     | 20        | 80        | 155       | 20           | 40        | 10        | 1,5       | 8,7    | 360                     |
|      | 90*              | 7125                  | 150                                | 260       | 160                    | 90                     | 25        | 120       | 220       | —            | —         | —         | 3         | 24,5   | 360                     |
|      | 100*             | 7125                  | 150                                | 260       | 160                    | 90                     | 25        | 120       | 220       | —            | —         | —         | 3         | 23,5   | 360                     |
|      | 110*             | 7125                  | 150                                | 260       | 160                    | 90                     | 25        | 120       | 220       | —            | —         | —         | 3         | 22,5   | 360                     |
|      | 120*             | 11000                 | 130                                | 300       | 180                    | 110                    | 30        | 140       | 260       | —            | —         | —         | 3         | 42     | 600                     |

## NOTES

1)  $T_{max} = 2 \times T_{KN}$   
» Refer to Selection page 7 to 11  
Keyway to DIN 6885.1

\*) 2 Keyways 120° offset

» Refer to mounting and maintenance instructions  
page 12 to 13

## MOUNTING EXAMPLE

