

Labyrinth seal for spindle bearings Type CF...S10



CF 6010 S10

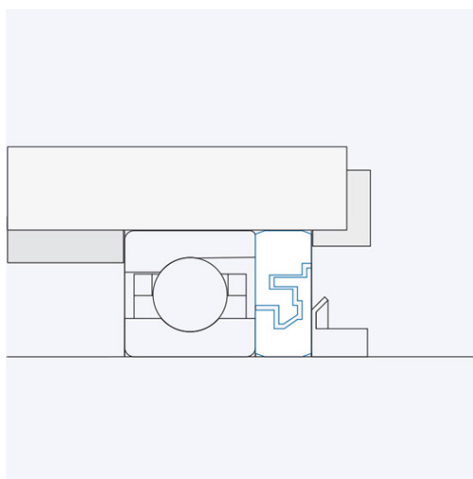
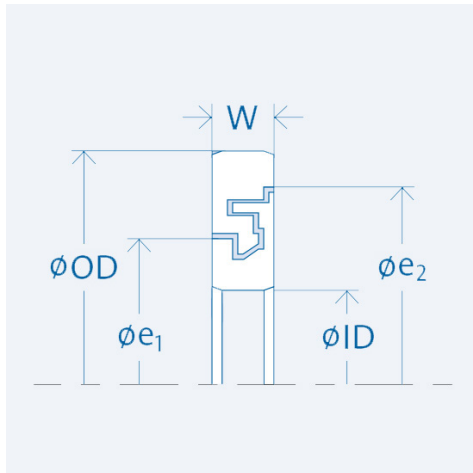
Item number 307105

Technical data

| | |
|---------------------------|--------------|
| Material: | Steel |
| Hardness: | ≥ 45 HRC |
| Plane-parallelism: | ≤ 5 μm |
| Inner diameter ID: | 50 mm |
| Outer diameter OD: | 80 mm |
| Installed width W: | 6 mm |
| Sealing gap: | Axial/radial |
| Axial play S_{ax}^* : | 1 mm |
| Radial play S_{rad}^* : | 0.5 mm |
| Gap diameter e_1 : | 60 mm |
| Gap diameter e_2 : | 70 mm |
| Speed limit**: | unlimited |
| Weight: | 0.145 kg |
| Operating temperature t: | -40° - 170°C |

*Entire movability from one end position to the other

**CF...S10 designs have no axial movement in the press compound between the spindle bearing and the shaft nut, and allow unlimited speed in this arrangement.



The larger gap diameter e_2 must always face the impact.

Installation

The seal is designed to be assembled directly in contact to the spindle bearing. Inner and outer ring must be secured axially. The spindle bearing could be preloaded directly through the seal.

Component tolerances

Width W = 6 mm (0/ -20 μm)

| bore inner ring d [mm] | | | | |
|----------------------------------|-----|-----|-----|-----|
| above | 18 | 30 | 50 | 80 |
| to | 30 | 50 | 80 | 120 |
| max. tolerance [μm] | 10 | 12 | 14 | 16 |
| min. tolerance [μm] | 0 | 0 | 0 | 0 |
| outer diameter outer ring D [mm] | | | | |
| above | 30 | 50 | 80 | 120 |
| to | 50 | 80 | 120 | 150 |
| max. tolerance [μm] | 0 | 0 | 0 | 0 |
| min. tolerance [μm] | -12 | -14 | -16 | -18 |