

# Labyrinth seal for spindle bearings

## Type CF...S10



### CF 6011 S10

Item number 307109

#### Technical data

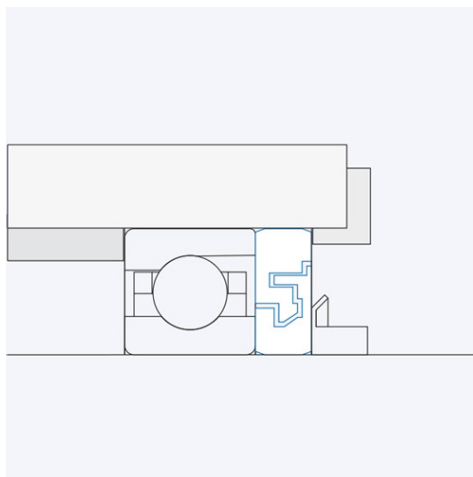
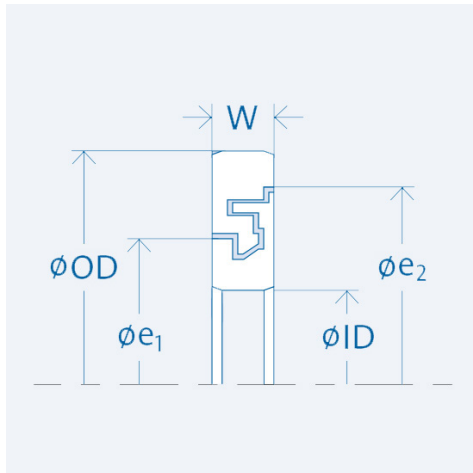
Material: Steel  
Hardness:  $\geq 45$  HRC  
Plane-parallelism:  $\leq 5 \mu\text{m}$

Inner diameter ID: 55 mm  
Outer diameter OD: 90 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  $e_1$ : 67 mm  
Gap diameter  $e_2$ : 77 mm

Speed limit<sup>\*\*</sup>: unlimited  
Weight: 0.189 kg  
Operating temperature t:  $-40^\circ - 170^\circ\text{C}$

\*Entire movability from one end position to the other  
<sup>\*\*</sup>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  $\mu\text{m}$ )

bore inner ring d [mm]				
above	18	30	50	80
to	30	50	80	120
max. tolerance [ $\mu\text{m}$ ]	10	12	14	16
min. tolerance [ $\mu\text{m}$ ]	0	0	0	0
outer diameter outer ring D [mm]				
above	30	50	80	120
to	50	80	120	150
max. tolerance [ $\mu\text{m}$ ]	0	0	0	0
min. tolerance [ $\mu\text{m}$ ]	-12	-14	-16	-18