Non Contact Seals for deep groove ball bearings

CF Seal made from Aluminum

For an effective sealing of standard deep groove ball bearings the Type CF..A0 are made from aluminum in the dimensions according to ball bearing row 62.

The labyrinth design is a combination of gaps in axial and radial direction in five steps. The axial gaps are shielding while the radial gaps are providing back transport.

A catching groove improves the sealing efficiency – even without any shaft rotation.

The option of saving sealing air and increased maintenance intervals are offering a considerable commercial progress and advantages.

Technical Data

material: aluminum
range of temperature: -40°C up to +200°C

Sealing CF-profile

axial clearance: \( S_{ax} = 1,0 \text{ mm} \)
radial clearance: \( S_{rad} = 0,5 \text{ mm} \)

*Total axial respectively radial movement.

Tolerances:

width \( W \): 6 mm (-50/+50 µm)
mating parts: shaft tolerance k5
housing tolerance J6

Type CF 62 ..A0

Characteristics and benefits:
No friction • no wear • no abrasion • no increased temperatures • unlimited speed • performance efficient • energy efficient • space saving • tight, even if the shaft stands still • easy to assemble

The CF seal is placed with a gap next to the bearing. (Abb.1). An axial fixing is not necessarily (press fit). At higher speed requirements the press fit to the shaft can be increased. Inner ring and outer ring are pressed in together with an assembly aid. (Abb.2). So both rings are axially aligned to each other without any contact. The bigger gap diameter \( e_2 \) (marked side) must always face the splashing contamination.

Note: The Type CF 62.. (without a suffix) is identical to version CF 62.. A0.