

Non Contact Seals for deep groove ball bearings

Stand 03.06.2016

CF Seal made from Aluminum

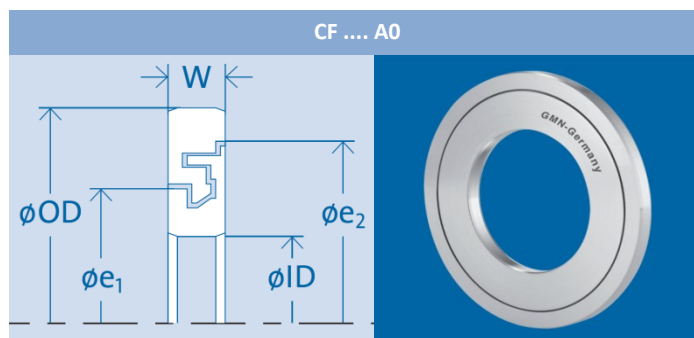
For an effective sealing of standard deep groove ball bearings the Type CF..A0 are made from aluminum in the dimensions according to ball bearing row 62.

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.

Type CF 62 ..A0



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.

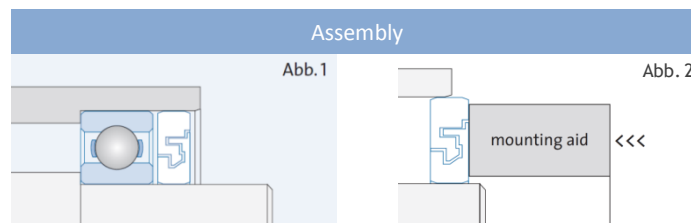
Tolerances:

width W: 6 mm (-50/+50 μm)

mating parts: shaft tolerance k5
housing tolerance J6

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.

Part name	ID [mm]	OD [mm]	W [mm]	e_1 [mm]	e_2 [mm]	$n_{max.}$ [rpm]	Weight [kg]	Item no.
CF 6200 A0	10	30	6	17	27	66,420	0.010	306787
CF 6201 A0	12	32	6	19	29	54,330	0.011	306791
CF 6202 A0	15	35	6	22	32	46,100	0.013	306795
CF 6203 A0	17	40	6	25	35	50,200	0.017	306799
CF 6204 A0	20	47	6	29	39	45,580	0.023	306803
CF 6205 A0	25	52	6	34	44	36,570	0.026	306807
CF 6206 A0	30	62	6	42	52	32,270	0.037	306811
CF 6207 A0	35	72	6	48	58	28,090	0.050	306815
CF 6208 A0	40	80	6	54	64	24,810	0.061	306819
CF 6209 A0	45	85	6	58	68	21,980	0.066	306823
CF 6210 A0	50	90	6	63	73	19,810	0.071	306827

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