

C 6909 V/C4S3

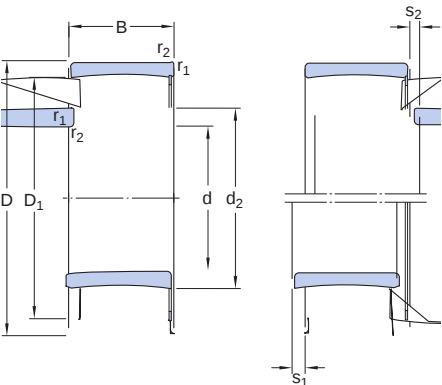


CARB toroidal roller bearings are unique: as well as accommodating misalignment without increased stress levels, they also provide frictionless axial movement within the bearing in the non-locating position in self-aligning bearing arrangements. This full complement bearing, which has a lower speed rating, uses as many rollers as possible, giving it the highest possible load rating.

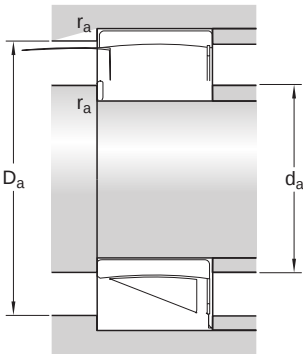
- Accommodate misalignment and axial displacement within the bearing
- Very high radial load carrying capacity
- Provide frictionless axial movement
- Long bearing system life

Bore type

Cylindrical



Dimensions		
d	45 mm	Bore diameter
D	68 mm	Outside diameter
B	40 mm	Width
d ₂	≈ 52 mm	Shoulder diameter of inner ring
D ₁	≈ 59.5 mm	Shoulder or recess diameter of outer ring
s ₁	max. 9.4 mm	Permissible axial displacement
s ₂	max. 6.4 mm	Permissible axial displacement
r _{1,2}	min. 0.6 mm	Chamfer dimension



Abutment dimensions		
d _a	min. 48.2 mm	Diameter of shaft abutment
d _a	max. 55 mm	Diameter of shaft abutment
D _a	max. 64.8 mm	Abutment diameter housing
r _a	max. 0.6 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	132 kN
Basic static load rating	C ₀	180 kN
Limiting speed		2 600 r/min
Misalignment factor	k ₁	0.091
Internal clearance factor	k ₂	0.113

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P5, tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit