

C 6915 V/C4VE240

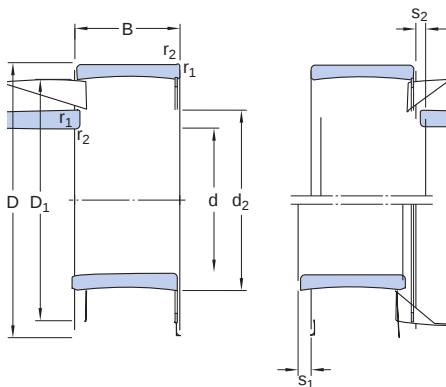
CARB toroidal roller bearings are unique: as well as accommodating misalignment without increased stress levels, they also provide frictionless axial movement within the bearing in the non-locating position in self-aligning bearing arrangements. This full complement bearing, which has a lower speed rating,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

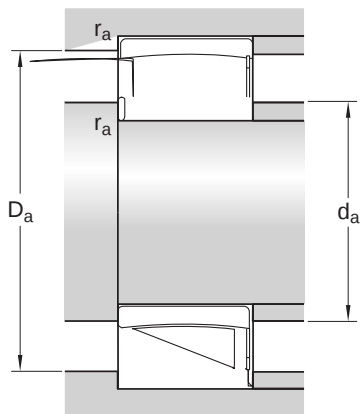
Bore type

Cylindrical



Dimensions

d	75 mm	Bore diameter
D	105 mm	Outside diameter
B	54 mm	Width
d ₂	≈ 83.6 mm	Shoulder diameter of inner ring
D ₁	≈ 95.5 mm	Shoulder or recess diameter of outer ring
s ₂	max. 9.2 mm	Permissible axial displacement
r _{1,2}	min. 1 mm	Chamfer dimension



Abutment dimensions

d _a	min. 79.6 mm	Diameter of shaft abutment
d _a	max. 88 mm	Diameter of shaft abutment
D _a	min. 86 mm	Diameter of housing abutment
D _a	max. 100 mm	Abutment diameter housing
r _a	max. 1 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	204 kN
Basic static load rating	C ₀	325 kN
Fatigue load limit	P _u	38 kN
Limiting speed		1 900 r/min
Misalignment factor	k ₁	0.073
Internal clearance factor	k ₂	0.154

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