

C 3138 KV

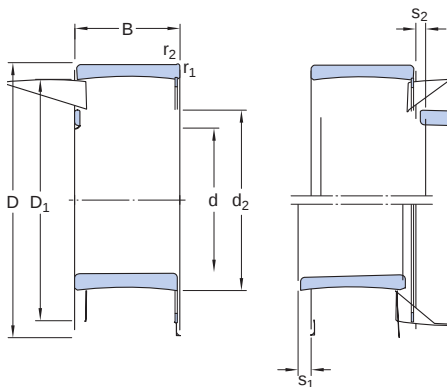


CARB toroidal roller bearings are unique: as well as accommodating misalignment without increased stress levels, they also provide frictionless axial movement within the bearing in the non-locating position in self-aligning bearing arrangements. This full complement bearing, which has a lower speed rating,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

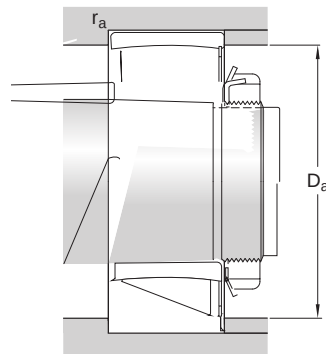
- Accommodate misalignment and axial displacement within the bearing
- Very high radial load carrying capacity
- Provide frictionless axial movement
- Long bearing system life

Bore type

Tapered 1:12



Dimensions		
d	190 mm	Bore diameter
D	320 mm	Outside diameter
B	104 mm	Width
d ₂	≈ 228 mm	Shoulder diameter of inner ring
D ₁	≈ 289 mm	Shoulder or recess diameter of outer ring
s ₁	max. 19 mm	Permissible axial displacement
s ₂	max. 9.1 mm	Permissible axial displacement
r _{1,2}	min. 3 mm	Chamfer dimension



Abutment dimensions		
Da	max. 306 mm	Abutment diameter housing
ra	max. 2.5 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	1 700 kN
Basic static load rating	C ₀	2 550 kN
Fatigue load limit	P _u	224 kN
Limiting speed		190 r/min
Misalignment factor	k ₁	0.115
Internal clearance factor	k ₂	0.096

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