

C 5918 V



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	90 mm Bore diameter
	D	125 mm Outside diameter
	B	46 mm Width
	d ₂	≈ 102 mm Shoulder diameter of inner ring
	D ₁	≈ 113 mm Shoulder or recess diameter of outer ring
	s ₁	max. 15.4 mm Permissible axial displacement
	s ₂	max. 11.1 mm Permissible axial displacement
	r _{1,2}	min. 1.1 mm Chamfer dimension

	Abutment dimensions	
	d _a	min. 96 mm Diameter of shaft abutment
	d _a	max. 106 mm Diameter of shaft abutment
	D _a	max. 119 mm Abutment diameter housing
	r _a	max. 1 mm Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	224 kN
Basic static load rating	C ₀	400 kN
Fatigue load limit	P _u	45.5 kN
Limiting speed		1 600 r/min
Misalignment factor	k ₁	0.089
Internal clearance factor	k ₂	0.131

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