

BS2-2319-2RS5/VT143



Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. Under normal operating conditions, sealed bearings are almost maintenance-free, keeping service costs and grease consumption low. The design includes features to facilitate relubrication.

- Accommodate misalignment
- High load carrying capacity
- Sealed for increased reliability, with relubrication features
- Low friction and long service life
- Increased wear resistance

Bore type

Cylindrical

Dimensions

Bore diameter	d	95 mm
Outside diameter	D	200 mm
Width	B	77 mm
Shoulder diameter of inner ring	d ₂	≈ 114 mm
Shoulder/recess diameter of outer ring	D ₁	≈ 173 mm
Width of lubrication groove	b	11.1 mm
Diameter of lubrication hole	K	6 mm
Chamfer dimension	r _{1,2}	min. 3 mm
ISO tolerance class for dimensions		Normal

Abutment dimensions

Diameter of shaft abutment	d _a	min. 109 mm
Diameter of shaft abutment	d _a	max. 114 mm

Diameter of housing abutment	D_a	max. 186 mm
Radius of fillet	r_a	max. 2.5 mm

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	699 kN
Basic static load rating	C_0	765 kN
Fatigue load limit	P_u	73.5 kN
Limiting speed		1 700 r/min
Limiting value	e	0.33
Calculation factor	Y_1	2
Calculation factor	Y_2	3
Calculation factor	Y_0	2

Tolerances of run-out

ISO tolerance class for geoal tolerances	P5
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Radial internal clearance

Minimum initial clearance	60 μ m
Maximum initial clearance	100 μ m

Tolerances of run-out

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, 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

AGA BEARINGS