

BS2-2319-2RS5K/VT143

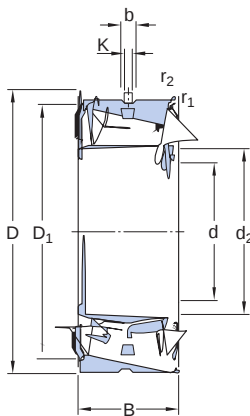
Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. Under normal operating conditions, sealed bearings are almost maintenance-free, keeping service costs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



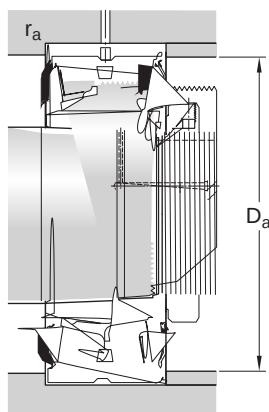
- Accommodate misalignment
- High load carrying capacity
- Sealed for increased reliability, with relubrication features
- Low friction and long service life
- Increased wear resistance

Bore type

Tapered 1:12



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



Abutment dimensions

D_a max. 186 mm Diameter of housing abutment

r_a max. 2.5 mm Radius of fillet

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	80 μm
Maximum initial clearance	110 μm

Mounting information

Recommended tightening angle for lock nut	α	150 °
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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