

BS2-2207-2RS/VT143

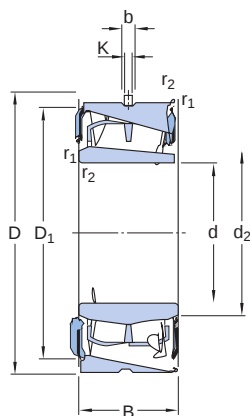
Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. Under normal operating conditions, sealed bearings are almost maintenance-free, keeping service costs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



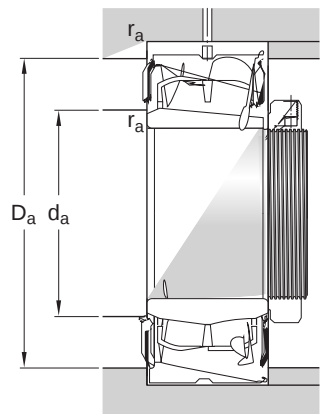
- Accommodate misalignment
- High load carrying capacity
- Sealed for increased reliability, with relubrication features
- Low friction and long service life
- Increased wear resistance

Bore type

Cylindrical



Dimensions		
d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	28 mm	Width
d ₂	≈ 42.4 mm	Shoulder diameter of inner ring
D ₁	≈ 65.3 mm	Shoulder/recess diameter of outer ring
b	4.4 mm	Width of lubrication groove
K	2 mm	Diameter of lubrication hole
r _{1,2}	min. 1.1 mm	Chamfer dimension
Normal		ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 41.8 mm	Diameter of shaft abutment
d_a	max. 42 mm	Diameter of shaft abutment
D_a	max. 65 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	88.8 kN
Basic static load rating	C_0	83 kN
Fatigue load limit	P_u	9.15 kN
Limiting speed		4 400 r/min
Limiting value	e	0.31
Calculation factor	Y_1	2.2
Calculation factor	Y_2	3.3
Calculation factor	Y_0	2.2

Tolerances of run-out

ISO tolerance class for geoal tolerances	P5
--	----

Radial internal clearance

Minimum initial clearance	30 μ m
Maximum initial clearance	45 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