

22317 EJA/VA406

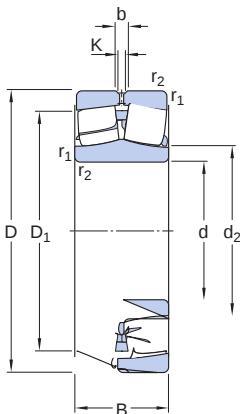


Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. This bearing design offers excellent performance in many types of vibrating machinery. The design includes features to facilitate relubrication. The bearings can be used in a modular system, including housings, sleeves and nuts.

- Accommodate misalignment
- High load carrying capacity
- Accommodate very high vibration levels
- Low friction and long service life
- Increased wear resistance

Bore type

Cylindrical



Dimensions		
d	85 mm	Bore diameter
D	180 mm	Outside diameter
B	60 mm	Width
d ₂	≈ 108 mm	Shoulder diameter of inner ring
D ₁	≈ 154 mm	Shoulder/recess diameter of outer ring
b	8.3 mm	Width of lubrication groove
K	4.5 mm	Diameter of lubrication hole
r _{1,2}	min. 3 mm	Chamfer dimension
Normal, bore to P5 and outside diameter P6		ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 99 mm	Diameter of shaft abutment
D_a	max. 166 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	577 kN
Basic static load rating	C_0	620 kN
Fatigue load limit	P_u	61 kN
Reference speed		2 800 r/min
Limiting speed		3 800 r/min
Limiting value	e	0.33
Calculation factor	Y_1	2
Calculation factor	Y_2	3
Calculation factor	Y_0	2
Permissible rotational acceleration for oil lubrication		726 m/s ²
Permissible linear acceleration for oil lubrication		206 m/s ²

Radial internal clearance

Minimum initial clearance	135 μ m
Maximum initial clearance	180 μ m

Tolerances and clearances

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