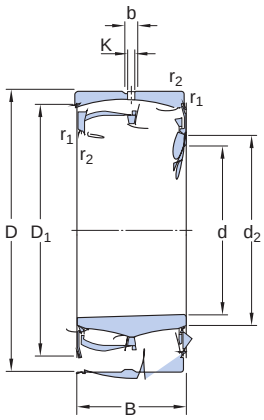
24172-2CS5/VT143

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.

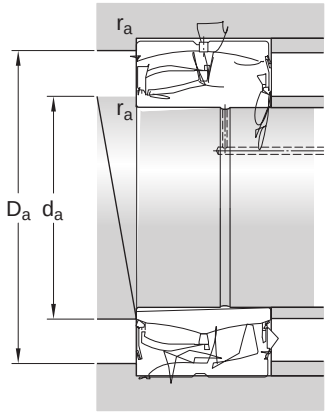
- Accommodate misalignment
- High load carrying capacity
- Sealed for increased reliability, with relubrication features
- Low friction and long service life
- Increased wear resistance

Bore type	Cylindrical



Dimensions

d	360 mm	Bore diameter
$t_{\Delta dmp}$	-0.04 – 0.0 mm	Deviation limits of mid-range bore diameter
D	600 mm	Outside diameter
$t_{\Delta Dmp}$	-0.05 – 0.0 mm	Deviation limits of mid-range outside diameter
B	243 mm	Width
$t_{\Delta Bs}$	-0.4 – 0.0 mm	Deviation limits of ring width
d_2	≈ 395 mm	Shoulder diameter of inner ring
D_1	≈ 535 mm	Shoulder/recess diameter of outer ring
b	16.7 mm	Width of lubrication groove
K	9 mm	Diameter of lubrication hole
$r_{1,2}$	min. 5 mm	Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 380 mm	Diameter of shaft abutment
d_a	max. 395 mm	Diameter of shaft abutment
D_a	max. 580 mm	Diameter of housing abutment
r_a	max. 4 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	5 749 kN
Basic static load rating	C_0	9 300 kN
Fatigue load limit	P_u	670 kN
Limiting speed		240 r/min
Limiting value	e	0.37
Calculation factor	Y_1	1.8
Calculation factor	Y_2	2.7
Calculation factor	Y_0	1.8

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	60 µm
Range of section height at outer ring of assembled bearing	t_{Kea}	100 µm
ISO tolerance class for geoal tolerances		Normal

Radial internal clearance

Minimum initial clearance	220 µm

Maximum initial clearance	340 µm

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