

BS2-2209-2RS/GFP9VA944

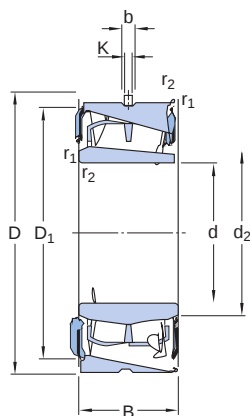
NR Food line spherical roller bearings are compliant with food safety regulations. Designed with food grade seals and grease, they enhance food safety, increase reliability and support sustainable development. Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature.



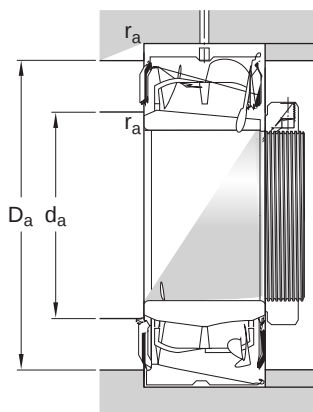
- Compliant with food safety regulations
- Accommodate misalignment
- High load carrying capacity
- Low friction and long service life
- Increased wear resistance

Bore type

Cylindrical



Dimensions		
d	45 mm	Bore diameter
t _{Δdmp}	-0.012 – 0.0 mm	Deviation limits of mid-range bore diameter
D	85 mm	Outside diameter
t _{ΔDmp}	-0.015 – 0.0 mm	Deviation limits of mid-range outside diameter
B	28 mm	Width
t _{ΔBs}	-0.06 – 0.0 mm	Deviation limits of ring width
d ₂	≈ 52.5 mm	Shoulder diameter of inner ring
D ₁	≈ 77.8 mm	Shoulder/recess diameter of outer ring
b	6 mm	Width of lubrication groove
K	3 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. 52 mm	Diameter of shaft abutment
d_a	max. 52.5 mm	Diameter of shaft abutment
D_a	max. 78 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	104 kN
Basic static load rating	C_0	100 kN
Fatigue load limit	P_u	10.8 kN
Limiting speed		460 r/min
Limiting value	e	0.26
Calculation factor	Y_1	2.6
Calculation factor	Y_2	3.9
Calculation factor	Y_0	2.5

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	5 μ m
Maximum run-out of inner ring side face to the bore	t_{Sd}	8 μ m
Range of section height at outer ring of assembled bearing	t_{Kea}	10 μ m
Perpendicularity of outer ring outside surface	t_{SD}	4.5 μ m
ISO tolerance class for geoal tolerances		P5

Radial internal clearance

Minimum initial clearance	35 µm
Maximum initial clearance	55 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

AGA BEARINGS