

Image may differ from product. See technical specification for details.

BS2-2208-2RS/GFP9VA944

SKF Food line spherical roller bearing

SKF 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 up to 0.5 degree
- High load carrying capacity
- Sealed for increased reliability, with relubrication features
- Low friction and long service life
- Increased wear resistance

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	28 mm

Performance

Basic dynamic load rating	98.5 kN
Basic static load rating	91.5 kN
Limiting speed	500 r/min
SKF performance class	SKF Explorer

Properties

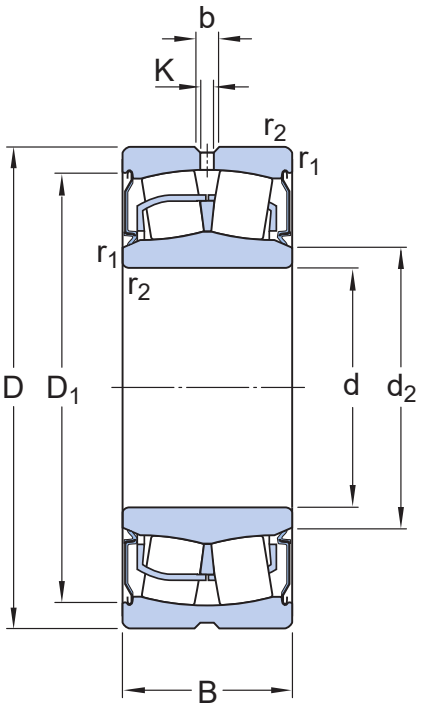
Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Food grade grease
Relubrication feature	With
Indicative carbon footprint for new product	2.2 kg CO_2e

Logistics

Product net weight	0.592 kg
eClass code	23-05-09-11
UNSPSC code	31171510

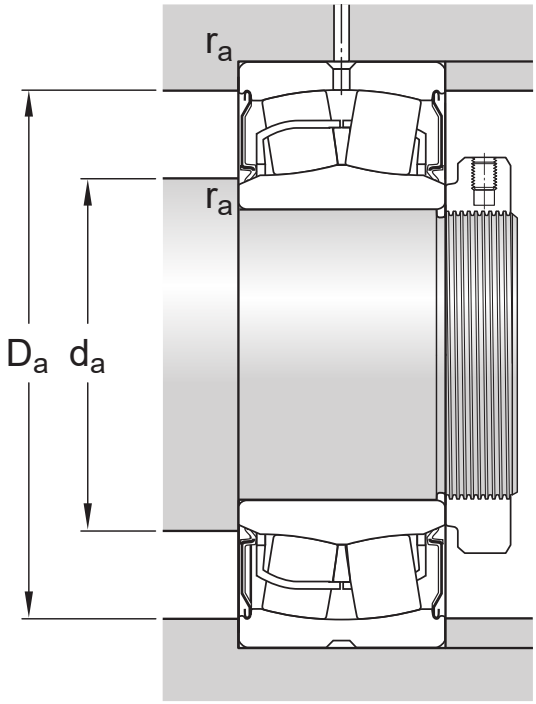
Technical specification

Bore type	Cylindrical



Dimensions

d	40 mm	Bore diameter
$t_{\Delta dmp}$	-0.012 – 0 mm	Deviation limits of mid-range bore diameter
D	80 mm	Outside diameter
$t_{\Delta Dmp}$	-0.013 – 0 mm	Deviation limits of mid-range outside diameter
B	28 mm	Width
$t_{\Delta Bs}$	-0.06 – 0 mm	Deviation limits of ring width
d_2	≈ 47.2 mm	Shoulder diameter of inner ring
D_1	≈ 72.8 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. 46.8 mm	Diameter of shaft abutment
d_a	max. 47 mm	Diameter of shaft abutment
D_a	max. 73 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	98.5 kN
Basic static load rating	C_0	91.5 kN
Fatigue load limit	P_u	10 kN
Limiting speed		500 r/min
Limiting value	e	0.28
Calculation factor	Y_1	2.4
Calculation factor	Y_2	3.6
Calculation factor	Y_0	2.5

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	5 µm

Maximum run-out of inner ring side face to the bore	t_{Sd}	8 µm
Range of section height at outer ring of assembled bearing	t_{Kea}	8 µm
Perpendicularity of outer ring outside surface	t_{SD}	4 µm
ISO tolerance class for geometrical tolerances		P5

Radial internal clearance

Minimum initial clearance	30 µm
Maximum initial clearance	45 µm

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

Compatible products

Mounting tool

Bearing fitting tool kit	TMFT 36
Bearing fitting tool kit, PRO version	TMFT 36/PRO

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