



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

BS2-2308-2RS/VT143

Spherical roller bearing with integral sealing and relubrication features

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

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	38 mm

Properties

Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class	Normal
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	With

Performance

Basic dynamic load rating	155 kN
Basic static load rating	140 kN
Limiting speed	4 000 r/min
SKF performance class	SKF Explorer

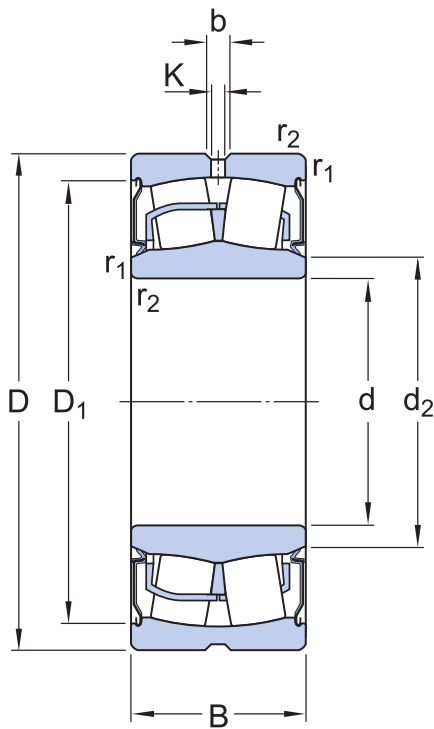
Logistics

Product net weight	1.11 kg
eClass code	23-05-09-11
UNSPSC code	31171510

Technical specification

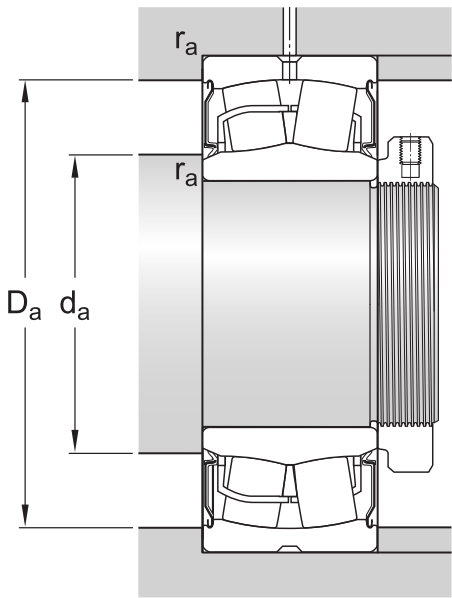
Bore type

Cylindrical



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	38 mm	Width
d ₂	≈ 47.5 mm	Shoulder diameter of inner ring
D ₁	≈ 79.3 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. 1.5 mm	Chamfer dimension



Abutment dimensions

d _a	min. 47.3 mm	Diameter of shaft abutment
d _a	max. 47.5 mm	Diameter of shaft abutment
D _a	max. 81 mm	Diameter of housing abutment
r _a	max. 1.5 mm	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	155 kN
Basic static load rating	C ₀	140 kN
Fatigue load limit	P _u	15 kN
Limiting speed		4 000 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

Mass	1.2 kg
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Dimensional tolerances	Normal
Radial run-out	P5