



# BS2-2207-2RS/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	35 mm
Outside diameter	72 mm
Width	28 mm

### Performance

Basic dynamic load rating	88.8 kN
Basic static load rating	83 kN
Limiting speed	4 400 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	Grease
Relubrication feature	With

# Technical Specification

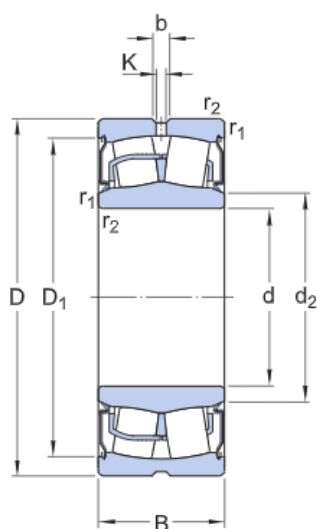
SKF performance class

SKF Explorer

Bore type

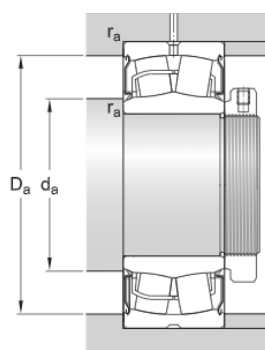
Cylindrical

## Dimensions



d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	28 mm	Width
d <sub>2</sub>	≈ 42.4 mm	Shoulder diameter of inner ring
D <sub>1</sub>	≈ 65.3 mm	Shoulder/recess diameter of outer ring
b	4.4 mm	Width of lubrication groove
K	2 mm	Diameter of lubrication hole
r <sub>1,2</sub>	min. 1.1 mm	Chamfer dimension

## Abutment dimensions



d <sub>a</sub>	min. 41.8 mm	Diameter of shaft abutment
d <sub>a</sub>	max. 42 mm	Diameter of shaft abutment
D <sub>a</sub>	max. 65 mm	Diameter of housing abutment
r <sub>a</sub>	max. 1 mm	Radius of fillet

## Calculation data

Basic dynamic load rating	C	88.8 kN
Basic static load rating	C <sub>0</sub>	83 kN

Fatigue load limit	$P_u$	9.15 kN
Limiting speed		4 400 r/min
Limiting value	$e$	0.31
Calculation factor	$Y_1$	2.2
Calculation factor	$Y_2$	3.3
Calculation factor	$Y_0$	2.2

## Mass

Mass		0.52 kg
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## Tolerance class

Dimensional tolerances		Normal
Radial run-out		P5

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