



# BS2-2217-2RS/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	85 mm
Outside diameter	150 mm
Width	44 mm

### Performance

Basic dynamic load rating	291 kN
Basic static load rating	325 kN
Limiting speed	1 900 r/min
SKF performance class	SKF Explorer

## Properties

Bore type	Cylindrical
Cage	Sheet metal
Locating feature, bearing outer ring	Without
Lubricant	Grease
Number of rows	2
Radial internal clearance	CN
Relubrication feature	With
Sealing	Seal on both sides
Sealing type	Contact

# Technical Specification

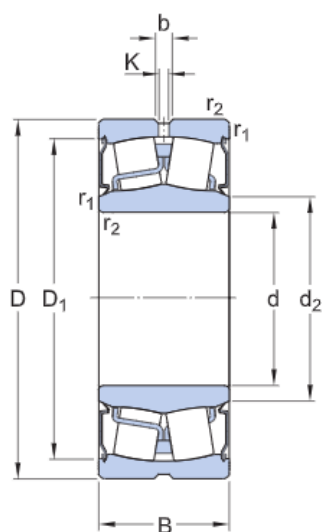
SKF performance class

SKF Explorer

Bore type

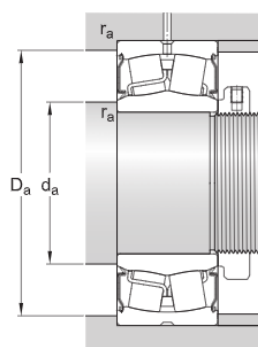
Cylindrical

## Dimensions



d	85 mm	Bore diameter
D	150 mm	Outside diameter
B	44 mm	Width
d <sub>2</sub>	≈ 98.2 mm	Shoulder diameter of inner ring
D <sub>1</sub>	≈ 137 mm	Shoulder/recess diameter of outer ring
b	6 mm	Width of lubrication groove
K	3 mm	Diameter of lubrication hole
r <sub>1,2</sub>	min. 2 mm	Chamfer dimension

## Abutment dimensions



d <sub>a</sub>	min. 96 mm	Diameter of shaft abutment
d <sub>a</sub>	max. 98 mm	Diameter of shaft abutment
D <sub>a</sub>	max. 139 mm	Diameter of housing abutment
r <sub>a</sub>	max. 2 mm	Radius of fillet

## Calculation data

Basic dynamic load rating	C	291 kN
Basic static load rating	C <sub>0</sub>	325 kN

Fatigue load limit	$P_u$	34.5 kN
Limiting speed		1 900 r/min
Limiting value	$e$	0.22
Axial load factor	$Y_1$	3
Axial load factor	$Y_2$	4.6
Axial load factor	$Y_0$	2.8

## Mass

Mass		3 kg
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