



# BS2-2209-2RS/VT143Spherical roller bearing with integral sealing and relubrication features

## 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	45 mm
Outside diameter	85 mm
Width	28 mm

### Performance

Basic dynamic load rating	104 kN
Basic static load rating	100 kN
Limiting speed	3 600 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	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

# Technical Specification

SKF performance class

SKF Explorer

Bore type

Cylindrical

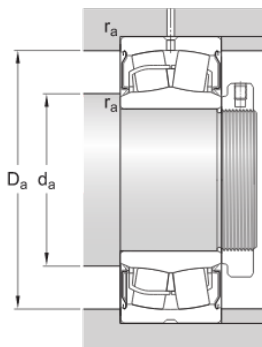


## Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	28 mm	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

## 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

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		3 600 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

## Mass

Mass		0.66 kg
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## Tolerance class

Dimensional tolerances		Normal
Radial run-out		P5

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