



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

BS2-2216-2RS/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	80 mm
Outside diameter	140 mm
Width	40 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	243 kN
Basic static load rating	270 kN
Limiting speed	2 100 r/min
SKF performance class	SKF Explorer

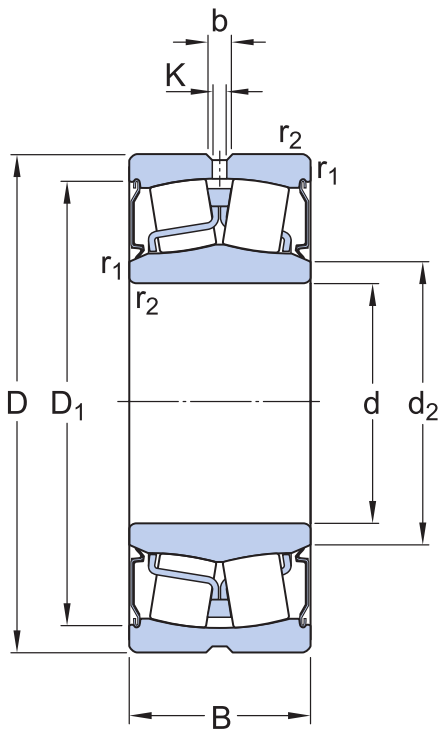
Logistics

Product net weight	2.4 kg
eClass code	23-05-09-11
UNSPSC code	31171510

Technical specification

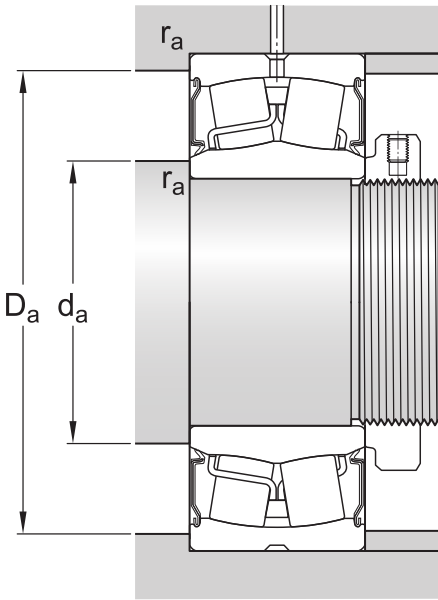
Bore type

Cylindrical



Dimensions

d	80 mm	Bore diameter
D	140 mm	Outside diameter
B	40 mm	Width
d ₂	≈ 91.7 mm	Shoulder diameter of inner ring
D ₁	≈ 129 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. 2 mm	Chamfer dimension



Abutment dimensions

d _a	min. 91 mm	Diameter of shaft abutment
d _a	max. 91.5 mm	Diameter of shaft abutment
D _a	max. 129 mm	Diameter of housing abutment
r _a	max. 2 mm	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	243 kN
Basic static load rating	C ₀	270 kN
Fatigue load limit	P _u	29 kN
Limiting speed		2 100 r/min

Limiting value	e	0.22
Calculation factor	Y ₁	3
Calculation factor	Y ₂	4.6
Calculation factor	Y ₀	2.8

Mass

Mass	2.4 kg
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5