



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

BS2-2216-2RSK/VT143

Spherical roller bearing with tapered bore, integral sealing and relubrication features

Spherical roller bearings can accommodate heavy loads in both directions. They are selfaligning 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

Performance

Basic dynamic load rating	243 kN
Basic static load rating	270 kN
Limiting speed	2 100 r/min
SKF performance class	SKF Explorer

Properties

Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Tapered 1:12
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

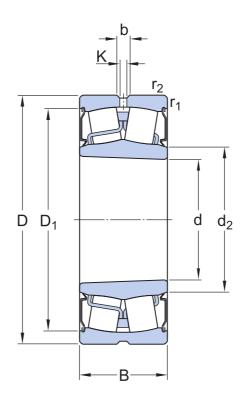
Logistics

Product net weight	2.36 kg
eClass code	23-05-09-11
UNSPSC code	31171510

Technical specification

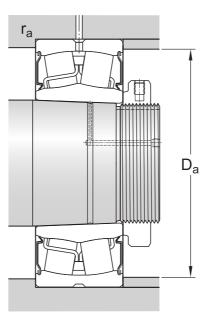
Bore type

Tapered 1:12



Dimensions

d	80 mm	Bore diameter
D	140 mm	Outside diameter
В	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
К	3 mm	Diameter of lubrication hole
r _{1,2}	min. 2 mm	Chamfer dimension



Abutment dimensions

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	Pu	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

Mounting information

Recommended tightening angle for lock nut	α	130 °
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Dimensional tolerances	Normal
Radial run-out	P5

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5, tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

Compatible products

Recommended product

Adapter sleeve with KMFE lock nut, metric dimensions	H 316 E
Adapter sleeve	HA 316 E
Adapter sleeve	HE 316 E
Adapter sleeve with AN or N lock nut and W lock washer, inch dimensions	SNW 16X2.11/16
Adapter sleeve with AN or N lock nut and W lock washer, inch dimensions	SNW 16X2.3/4
Adapter sleeve with AN or N lock nut and W lock washer, inch dimensions	SNW 16X2.5/8

More Information

Product details	Engineering information	interview Tools
Designs and variants		SimPro Quick
General bearing specifications	Principles of rolling bearing selection	SKF Product select - Select and
Loads	General bearing knowledge	evaluate bearing
Temperature limits	Bearing selection process Bearing failure and how to prevent it	SKF Product select - Combine housing with bearing
Permissible speed		LubeSelect for SKF greases
Design considerations		Drive-up Method Program
Mounting		Heater selection tool
Designation system		Oil Injection Method Program
		Tool and Accessory Selector for sleeves and shafts



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