

16002-2Z Deep groove ball bearing with seals or shields



Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	15 mm
Outside diameter	32 mm
Width	8 mm

Performance

Basic dynamic load rating	5.85 kN
Basic static load rating	2.85 kN
Reference speed	50 000 r/min
Limiting speed	26 000 r/min
SKF performance class	SKF Explorer

Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Shield on both sides
Sealing type	Non-contact

Lubricant

Grease

Relubrication feature

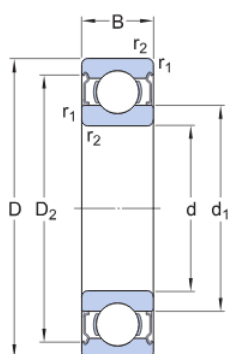
Without

Technical Specification

SKF performance class

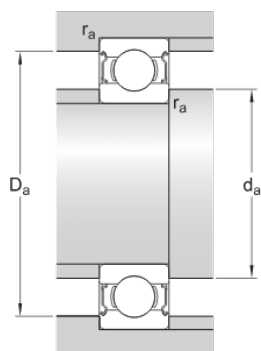
SKF Explorer

Dimensions



d	15 mm	Bore diameter
D	32 mm	Outside diameter
B	8 mm	Width
d_1	≈ 20.5 mm	Shoulder diameter
D_2	≈ 28.2 mm	Recess diameter
$r_{1,2}$	min. 0.3 mm	Chamfer dimension

Abutment dimensions



d_a min. 17 mm	Diameter of shaft abutment
d_a max. 20.1 mm	Diameter of shaft abutment
D_a max. 30 mm	Diameter of housing abutment
r_a max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	5.85 kN
Basic static load rating	C_0	2.85 kN
Fatigue load limit	P_u	0.12 kN
Reference speed		50 000 r/min

Limiting speed		26 000 r/min
Minimum load factor	k_r	0.02
Calculation factor	f_0	14

Mass

Mass bearing		0.025 kg
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Tolerance class

Dimensional tolerances		P6
Radial run-out		P5

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