



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

W 638/8-2Z

Stainless steel deep groove ball bearing with integral sealing

Stainless steel single row deep groove ball bearing with seals or shields on both sides, provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they 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 other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	8 mm
Outside diameter	16 mm
Width	6 mm

Performance

Basic dynamic load rating	0.715 kN
Basic static load rating	0.3 kN
Reference speed	90 000 r/min
Limiting speed	45 000 r/min

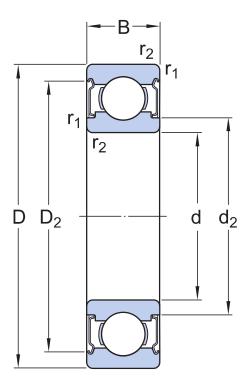
Properties

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	Stainless steel
Coating	Without
Sealing	Shield on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without

Logistics

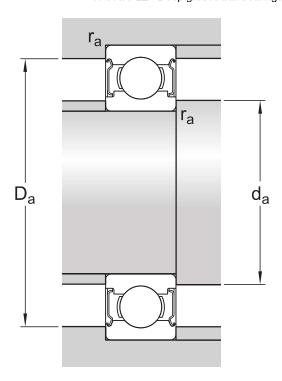
Product net weight	0.0044 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	8 mm	Bore diameter
D	16 mm	Outside diameter
В	6 mm	Width
d ₂	≈ 9.65 mm	Recess diameter
D_2	≈ 14.2 mm	Recess diameter
r _{1,2}	min. 0.2 mm	Chamfer dimension



Abutment dimensions

d _a	min. 9.5 mm	Diameter of shaft abutment
d _a	max. 9.6 mm	Diameter of shaft abutment
D _a	max. 14.4 mm	Diameter of housing abutment
r _a	max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.715 kN
Basic static load rating	C_0	0.3 kN
Fatigue load limit	P_{u}	0.012 kN
Reference speed		90 000 r/min
Limiting speed		45 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f_0	7.5

Tolerance class

Dimensional tolerances Normal

Radial run-out Normal

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (metric), P6, P5, Normal (inch)
- Radial internal clearance: Classes C2 to C5

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fits

More Information

Product details	Engineering information	Tools
Single row deep groove ball bearings		SKF Product select
Stainless steel deep groove ball	Principles of rolling bearing selection	SimPro Quick
bearings	General bearing knowledge	Bearing Frequency Calculator
Single row deep groove ball bearings with filling slots	Bearing selection process	LubeSelect for SKF greases
	Bearing interfaces	
Double row deep groove ball bearings		Heater selection tool
General bearing specifications	Seat tolerances for standard conditions	
Loads	Selecting internal clearance	
Temperature limits	Lubrication	
Permissible speed	Sealing, mounting and dismounting	
Designation system	Bearing failure and how to prevent it	



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