



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

W 638/4 R-2Z

Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and 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 flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	4 mm
Outside diameter	9 mm
Width	4 mm

Performance

Basic dynamic load rating	0.364 kN
Basic static load rating	0.114 kN
Reference speed	140 000 r/min
Limiting speed	70 000 r/min

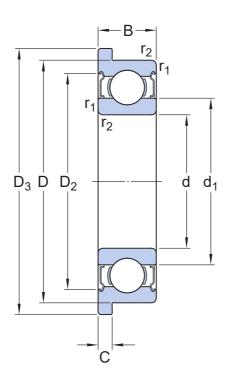
Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Flange
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

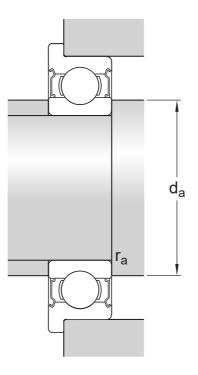
Product net weight	0.001 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	4 mm	Bore diameter
D	9 mm	Outside diameter
В	4 mm	Width
d1	≈ 5.2 mm	Shoulder diameter
D ₂	≈ 8.1 mm	Recess diameter
D ₃	10.3 mm	Flange diameter
С	1 mm	Flange width
r1,2	min. 0.1 mm	Chamfer dimension



Abutment dimensions

da	min. 4.8 mm	Diameter of shaft abutment
da	max. 5.1 mm	Diameter of shaft abutment
ra	max. 0.1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.364 kN
Basic static load rating	C ₀	0.114 kN
Fatigue load limit	Pu	0.005 kN
Reference speed		140 000 r/min
Limiting speed		70 000 r/min
Minimum load factor	kr	0.02
Calculation factor	f ₀	6.5

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	interview American Am
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
Double row deep groove ball bearings	Bearing interfaces	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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