



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

W 63800 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	10 mm
Outside diameter	19 mm
Width	7 mm

Performance

Basic dynamic load rating	1.48 kN
Basic static load rating	0.83 kN
Reference speed	80 000 r/min
Limiting speed	38 000 r/min

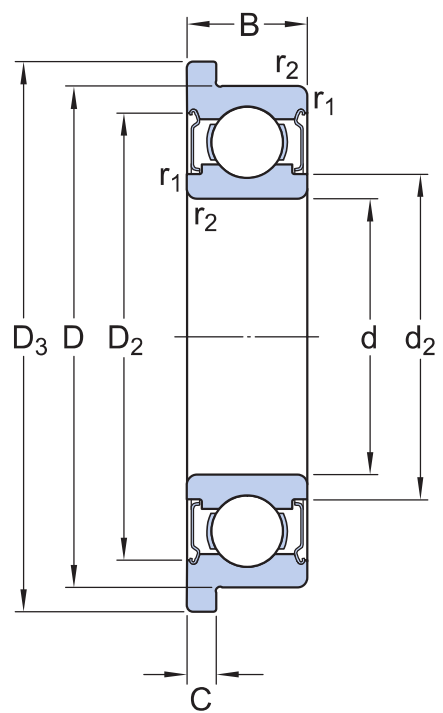
Properties

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

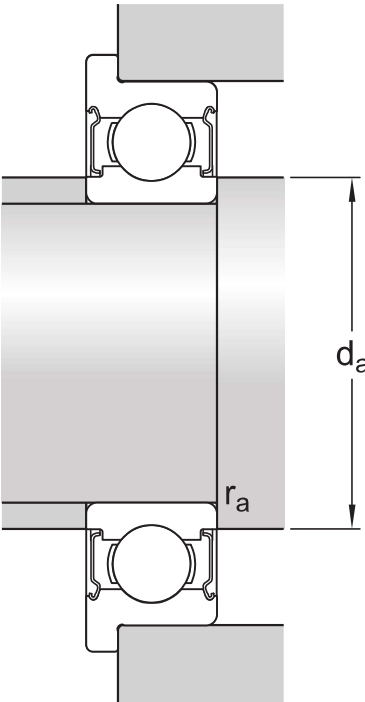
Product net weight	0.0075 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	10 mm	Bore diameter
D	19 mm	Outside diameter
B	7 mm	Width
d ₂	≈ 11.8 mm	Recess diameter
D ₂	≈ 17.15 mm	Recess diameter
D ₃	21 mm	Flange diameter
C	1.5 mm	Flange width
r _{1,2}	min. 0.3 mm	Chamfer dimension



Abutment dimensions

d _a	min. 11.5 mm	Diameter of shaft abutment
d _a	max. 11.5 mm	Diameter of shaft abutment
r _a	max. 0.3 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	1.48 kN
Basic static load rating	C ₀	0.83 kN
Fatigue load limit	P _u	0.036 kN
Reference speed		80 000 r/min
Limiting speed		38 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	14.8

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