



# W 638/8 R-2Z Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

## 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	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	Flange ring
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Tolerance class	Normal

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

# Technical Specification

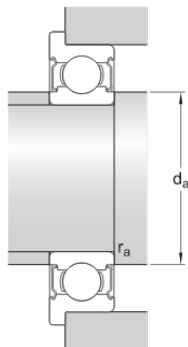


## Dimensions

d	8 mm	Bore diameter
D	16 mm	Outside diameter
B	6 mm	Width
d <sub>2</sub>	≈ 9.65 mm	Recess diameter
D <sub>2</sub>	≈ 14.2 mm	Recess diameter
D <sub>3</sub>	18 mm	Flange diameter
C	1.3 mm	Flange width
r <sub>1,2</sub>	min. 0.2 mm	Chamfer dimension

## Abutment dimensions

d <sub>a</sub>	min. 9.5 mm	Diameter of shaft abutment
d <sub>a</sub>	max. 9.6 mm	Diameter of shaft abutment
r <sub>a</sub>	max. 0.2 mm	Radius of shaft or housing fillet



## Calculation data

Basic dynamic load rating	C	0.715 kN
Basic static load rating	C <sub>0</sub>	0.3 kN
Fatigue load limit	P <sub>u</sub>	0.012 kN
Reference speed		90 000 r/min
Limiting speed		45 000 r/min
Minimum load factor	k <sub>r</sub>	0.02
Calculation factor	f <sub>0</sub>	7.5

## Mass

Mass bearing	0.0051 kg
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## Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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