

# W 607

## Stainless steel deep groove ball bearing



Stainless steel single row deep groove ball bearings 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 many other bearing types.

- Greater chemical and corrosion resistance
- 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	7 mm
Outside diameter	19 mm
Width	6 mm

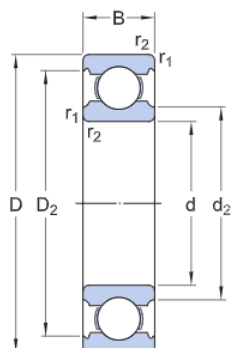
### Performance

Basic dynamic load rating	1.53 kN
Basic static load rating	0.585 kN
Limiting speed	56 000 r/min
Reference speed	85 000 r/min

## Properties

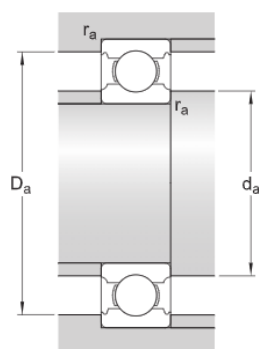
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

## Technical Specification



### Dimensions

d	7 mm	Bore diameter
D	19 mm	Outside diameter
B	6 mm	Width
d <sub>2</sub>	≈ 9 mm	Recess diameter
D <sub>2</sub>	≈ 16.5 mm	Recess diameter
r <sub>1,2</sub>	min. 0.3 mm	Chamfer dimension



### Abutment dimensions

d <sub>a</sub>	min. 8.7 mm	Diameter of shaft abutment
D <sub>a</sub>	max. 17 mm	Diameter of housing abutment
r <sub>a</sub>	max. 0.3 mm	Radius of shaft or housing fillet

### Calculation data

Basic dynamic load rating	C	1.53 kN
Basic static load rating	C <sub>0</sub>	0.585 kN
Fatigue load limit	P <sub>u</sub>	0.025 kN
Reference speed		85 000 r/min
Limiting speed		56 000 r/min
Minimum load factor	k <sub>r</sub>	0.03
Calculation factor	f <sub>0</sub>	7.9

## Mass

Mass bearing	0.0067 kg
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## Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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