



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

# W 604

#### 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	4 mm
Outside diameter	12 mm
Width	4 mm

### Performance

Basic dynamic load rating	0.54 kN
Basic static load rating	0.176 kN
Reference speed	130 000 r/min
Limiting speed	80 000 r/min

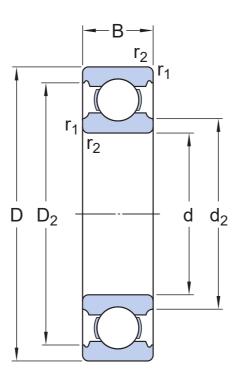
## Properties

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	Without
Lubricant	None
Relubrication feature	Without

### Logistics

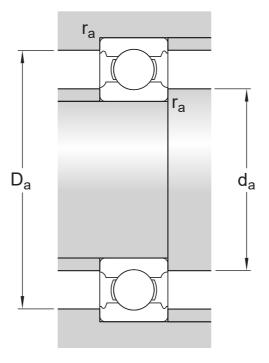
Product net weight	0.0021 kg
eClass code	23-05-08-01
UNSPSC code	31171504

## Technical specification



## Dimensions

d	4 mm	Bore diameter
D	12 mm	Outside diameter
В	4 mm	Width
d <sub>2</sub>	≈ 5.6 mm	Recess diameter
D <sub>2</sub>	≈ 9.85 mm	Recess diameter
٢1,2	min. 0.2 mm	Chamfer dimension



### Abutment dimensions

d <sub>a</sub>	min. 5.3 mm	Diameter of shaft abutment
D <sub>a</sub>	max. 10.4 mm	Diameter of housing abutment
r <sub>a</sub>	max. 0.2 mm	Radius of shaft or housing fillet

### Calculation data

Basic dynamic load rating	C	0.54 kN
Basic static load rating	C <sub>0</sub>	0.176 kN
Fatigue load limit	Pu	0.008 kN
Reference speed		130 000 r/min
Limiting speed		80 000 r/min
Minimum load factor	k <sub>r</sub>	0.03
Calculation factor	f <sub>0</sub>	6.4

### 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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