



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

# W 617/6 R

#### Deep groove ball bearing

Single row deep groove ball bearings are the most widely used bearing type and are particularly versatile. They have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They can accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- · Accommodate radial and axial loads in both directions
- Require little maintenance

## Overview

## **Dimensions**

Bore diameter	6 mm
Outside diameter	10 mm
Width	2.5 mm

### Performance

Basic dynamic load rating	0.286 kN
Basic static load rating	0.112 kN
Reference speed	120 000 r/min
Limiting speed	75 000 r/min

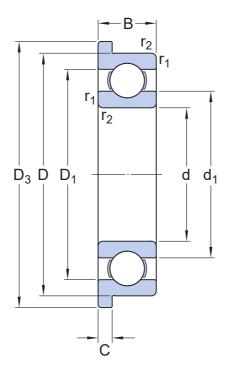
## **Properties**

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	Without
Lubricant	None
Relubrication feature	Without

## Logistics

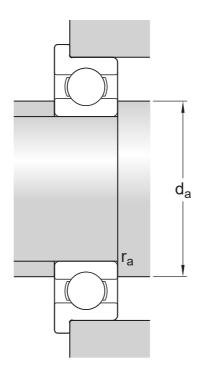
Product net weight	0.0008 kg
eClass code	23-05-08-01
UNSPSC code	31171504

# **Technical specification**



## Dimensions

d	6 mm	Bore diameter
D	10 mm	Outside diameter
В	2.5 mm	Width
d <sub>1</sub>	≈ 7.04 mm	Shoulder diameter
D <sub>1</sub>	≈ 8.9 mm	Shoulder diameter
D <sub>2</sub>	≈ 8.9 mm	Recess diameter
D <sub>3</sub>	11.2 mm	Flange diameter
С	0.6 mm	Flange width
r <sub>1,2</sub>	min. 0.15 mm	Chamfer dimension



### Abutment dimensions

da	min. 6.9 mm	Diameter of shaft abutment
г <sub>а</sub>	max. 0.15 mm	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	С	0.286 kN
Basic static load rating	$C_0$	0.112 kN
Fatigue load limit	Pu	0.005 kN
Reference speed		120 000 r/min
Limiting speed		75 000 r/min
Minimum load factor	k <sub>r</sub>	0.015
Calculation factor	f <sub>0</sub>	7.9

#### 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**

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



## Terms of use

By accessing and using this website / app owned and published by AB SKF (publ.) ( $556007-3495 \cdot Gothenburg$ ) ("SKF"), you agree to the following terms and conditions:

#### Warranty Disclaimer and Limitation of Liability

Although every care has been taken to assure the accuracy of the information on this website / app, SKF provides this information "AS IS" and DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. You acknowledge that your use of this website / app is at your sole risk, that you assume full responsibility for all costs associated with use of this website / app, and that SKF shall not be liable for any direct, incidental, consequential, or indirect damages of any kind arising out of your access to, or use of the information or software made available on this website / app.

Any warranties and representations in this website / app for SKF products or services that you purchase or use will be subject to the agreed upon terms and conditions in the contract for such product or service.

Further, for non-SKF websites / apps that are referenced in our website / app or where a hyperlink appears, SKF makes no warranties concerning the accuracy or reliability of the information in these websites / apps and assumes no responsibility for material created or published by third parties contained therein. In addition, SKF does not warrant that this website / app or these other linked websites / apps are free from viruses or other harmful elements.

#### **Third Party Services**

When viewing YouTube content via the SKF website(s) (i.e. using YouTube API Services), you agree to be bound by the YouTube Terms of Service.

#### Copyright

Copyright in this website / app copyright of the information and software made available on this website / app rest with SKF or its licensors. All rights are reserved. All licensed material will reference the licensor that has granted SKF the right to use the material. The information and software made available on this website / app may not be reproduced, duplicated, copied, transferred, distributed, stored, modified, downloaded or otherwise exploited for any commercial use without the prior written approval of SKF. However, it may be reproduced, stored and downloaded for use by individuals without prior written approval of SKF. Under no circumstances may this information or software be supplied to third parties.

This website /app includes certain images used under license from Shutterstock, Inc.

#### Trademarks and Patents

All trademarks, brand names, and corporate logos displayed on the website / app are the property of SKF or its licensors, and may not be used in any way without prior written approval by SKF. All licensed trademarks published on this website / app reference the licensor that has granted SKF the right to use the trademark. Access to this website / app does not grant to the user any license under any patents owned by or licensed to SKF.

#### Changes

SKF reserves the right to make changes or additions to this website / app at any time.