

# 6403

## Deep groove ball bearing

Single row deep groove ball bearings 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.

- 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	17 mm
Outside diameter	62 mm
Width	17 mm

### Performance

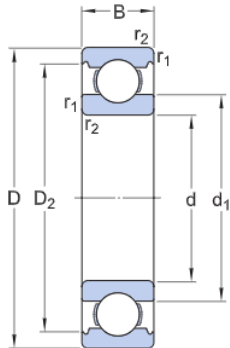
Basic dynamic load rating	22.9 kN
Basic static load rating	10.8 kN
Reference speed	28 000 r/min
Limiting speed	18 000 r/min

### 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	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

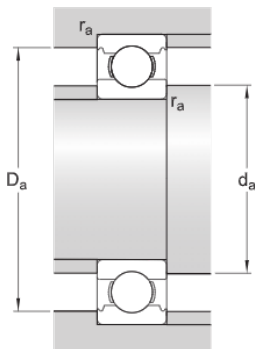
# Technical Specification

## Dimensions



d	17 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
d <sub>1</sub>	≈ 32.4 mm	Shoulder diameter
D <sub>2</sub>	≈ 48.7 mm	Recess diameter
r <sub>1,2</sub>	min. 1.1 mm	Chamfer dimension

## Abutment dimensions



d <sub>a</sub>	min. 23.5 mm	Diameter of shaft abutment
D <sub>a</sub>	max. 55.5 mm	Diameter of housing abutment
r <sub>a</sub>	max. 1 mm	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	C	22.9 kN
Basic static load rating	C <sub>0</sub>	10.8 kN
Fatigue load limit	P <sub>u</sub>	0.455 kN
Reference speed		28 000 r/min
Limiting speed		18 000 r/min
Minimum load factor	k <sub>r</sub>	0.035
Calculation factor	f <sub>0</sub>	11

## Mass

Mass bearing	0.27 kg
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## Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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