



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

# W 61903-2RS1

### Stainless steel deep groove ball bearing with integral sealing

Stainless steel single row deep groove ball bearing with 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 integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

# Overview

## **Dimensions**

Bore diameter	17 mm
Outside diameter	30 mm
Width	7 mm

### Performance

Basic dynamic load rating	3.97 kN
Basic static load rating	2.55 kN
Limiting speed	14 000 r/min

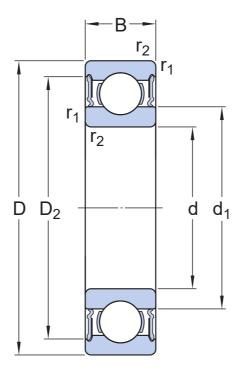
# **Properties**

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	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	Without

# Logistics

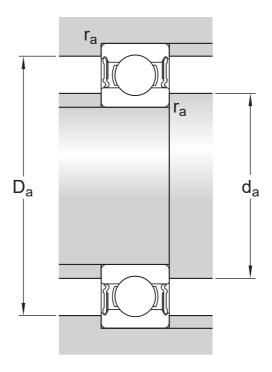
Product net weight	0.016 kg
eClass code	23-05-08-01
UNSPSC code	31171504

# **Technical specification**



# Dimensions

d	17 mm	Bore diameter
D	30 mm	Outside diameter
В	7 mm	Width
$d_1$	≈ 21 mm	Shoulder diameter
$d_2$	≈ 21 mm	Recess diameter
D <sub>2</sub>	≈ 27.8 mm	Recess diameter
r <sub>1,2</sub>	min. 0.3 mm	Chamfer dimension



## Abutment dimensions

da	min. 19 mm	Diameter of shaft abutment
da	max. 20.5 mm	Diameter of shaft abutment
Da	max. 28.5 mm	Diameter of housing abutment
ra	max. 0.3 mm	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	С	3.97 kN
Basic static load rating	$C_0$	2.55 kN
Fatigue load limit	$P_{u}$	0.108 kN
Limiting speed		14 000 r/min
Minimum load factor	k <sub>r</sub>	0.025
Calculation factor	fo	14.8

### 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



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