

W 6204-2RS1

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	20 mm
Outside diameter	47 mm
Width	14 mm

Performance

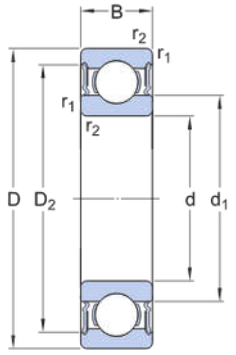
Basic dynamic load rating	10.8 kN
Basic static load rating	6.55 kN
Limiting speed	10 000 r/min

Properties

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

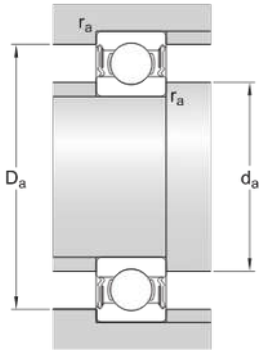
Technical Specification

Dimensions



d	20 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
d_1	≈ 29.5 mm	Shoulder diameter
d_2	≈ 29.5 mm	Recess diameter
D_2	≈ 40.92 mm	Recess diameter
$r_{1,2}$	min. 1 mm	Chamfer dimension

Abutment dimensions



d_a	min. 25 mm	Diameter of shaft abutment
d_a	max. 29 mm	Diameter of shaft abutment
D_a	max. 42 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	10.8 kN
Basic static load rating	C_0	6.55 kN
Fatigue load limit	P_u	0.28 kN
Limiting speed		10 000 r/min
Minimum load factor	k_r	0.03
Calculation factor	f_0	13.1

Mass

Mass bearing	0.1 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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