



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

## 6218-RS1

### Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields 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. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- 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	90 mm
Outside diameter	160 mm
Width	30 mm

## Performance

Basic dynamic load rating	101 kN
Basic static load rating	73.5 kN
Limiting speed	2 600 r/min
SKF performance class	SKF Explorer

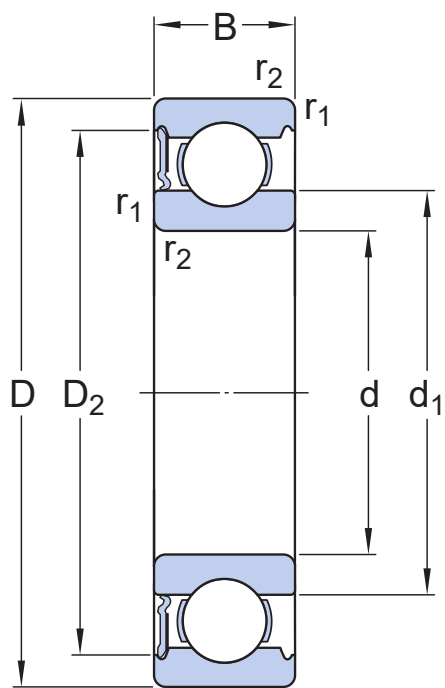
## Properties

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	Seal on one side
Sealing type	Contact
Lubricant	None
Relubrication feature	Without

## Logistics

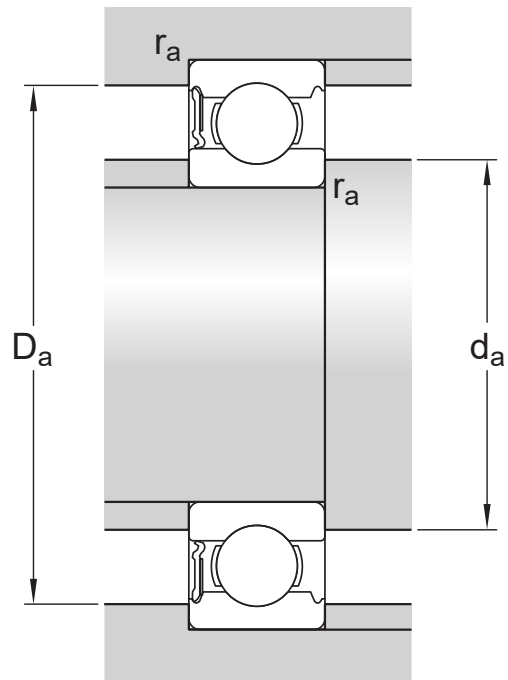
Product net weight	2.17 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	90 mm	Bore diameter
t <sub>Δdmp</sub>	-0.015 – 0 mm	Deviation limits of mid-range bore diameter
D	160 mm	Outside diameter
t <sub>ΔDmp</sub>	-0.018 – 0 mm	Deviation limits of mid-range outside diameter
B	30 mm	Width
t <sub>ΔBs</sub>	-0.1 – 0 mm	Deviation limits of ring width
d <sub>1</sub>	≈ 112.5 mm	Shoulder diameter
D <sub>2</sub>	≈ 142.6 mm	Recess diameter
r <sub>1,2</sub>	min. 2 mm	Chamfer dimension
P6 and tighter width tolerance		ISO tolerance class for dimensions



## Abutment dimensions

$d_a$	min. 101 mm	Diameter of shaft abutment
$d_a$	max. 112 mm	Diameter of shaft abutment
$D_a$	max. 149 mm	Diameter of housing abutment
$r_a$	max. 2 mm	Radius of shaft or housing fillet

## Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	101 kN
Basic static load rating	$C_0$	73.5 kN
Fatigue load limit	$P_u$	2.8 kN
Limiting speed		2 600 r/min
Minimum load factor	$k_r$	0.025
Calculation factor	$f_0$	14.7

## Tolerances of run-out

Range of section height at inner ring of assembled bearing	$t_{kia}$	25 $\mu$ m
Range of section height at outer ring of assembled bearing	$t_{kea}$	45 $\mu$ m

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

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