



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

## W 6002-2RS1/VP311

### SKF Food line stainless steel deep groove ball bearing with integral sealing

SKF Food line deep groove ball bearings are compliant with food safety regulations. Designed with food grade seals and grease, they enhance food safety, increase reliability and support sustainable development in corrosive environments (VP311). 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.

- Compliant with food safety regulations
- Greater chemical and corrosion resistance
- 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	15 mm
Outside diameter	32 mm
Width	9 mm

## Performance

Basic dynamic load rating	4.88 kN
Basic static load rating	2.8 kN
Limiting speed	14 000 r/min

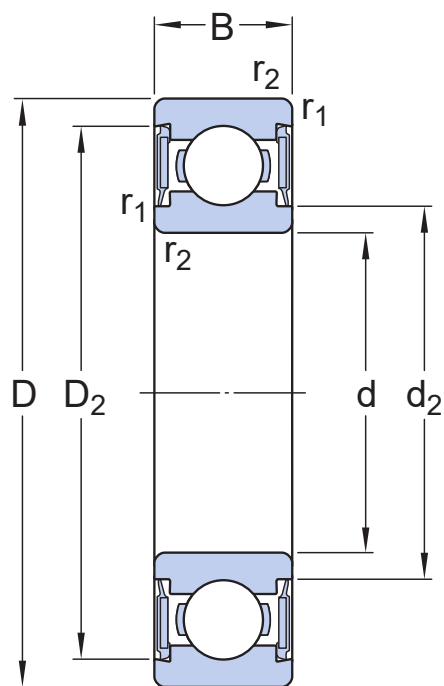
## Properties

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	Food grade grease
Relubrication feature	Without

## Logistics

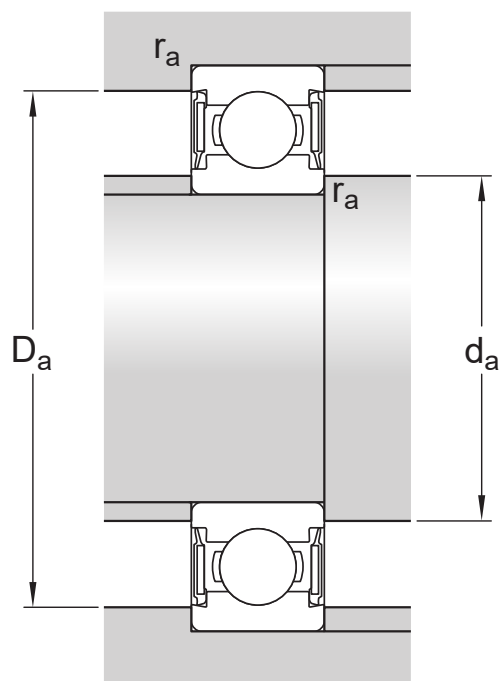
Product net weight	0.0282 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	15 mm	Bore diameter
D	32 mm	Outside diameter
B	9 mm	Width
d <sub>2</sub>	≈ 18.6 mm	Recess diameter
D <sub>2</sub>	≈ 29.05 mm	Recess diameter
r <sub>1,2</sub>	min. 0.3 mm	Chamfer dimension



### Abutment dimensions

$d_a$	min. 17 mm	Diameter of shaft abutment
$d_a$	max. 18.5 mm	Diameter of shaft abutment
$D_a$	max. 30 mm	Diameter of housing abutment
$r_a$	max. 0.3 mm	Radius of shaft or housing fillet

### Calculation data

Basic dynamic load rating	C	4.88 kN
Basic static load rating	$C_0$	2.8 kN
Fatigue load limit	$P_u$	0.12 kN
Limiting speed		14 000 r/min
Minimum load factor	$k_f$	0.03
Calculation factor	$f_0$	13.9

### 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

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

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