



# W 6001-2RS1/VP311SKF Food line

## stainless steel deep groove ball bearing with integral sealing

### 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	12 mm
Outside diameter	28 mm
Width	8 mm

### Performance

Basic dynamic load rating	4.42 kN
Basic static load rating	2.36 kN
Limiting speed	16 000 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
Tolerance class	Normal
Material, bearing	Stainless steel

Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Food-grade grease
Relubrication feature	Without

# Technical Specification

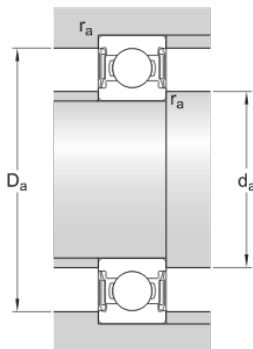


## Dimensions

d	12 mm	Bore diameter
D	28 mm	Outside diameter
B	8 mm	Width
$d_2$	≈ 16 mm	Recess diameter
$D_2$	≈ 25.15 mm	Recess diameter
$r_{1,2}$	min. 0.3 mm	Chamfer dimension

## Abutment dimensions

$d_a$	min. 14 mm	Diameter of shaft abutment
$d_a$	max. 15.5 mm	Diameter of shaft abutment
$D_a$	max. 26 mm	Diameter of housing abutment
$r_a$	max. 0.3 mm	Radius of shaft or housing fillet



## Calculation data

Basic dynamic load rating	C	4.42 kN
Basic static load rating	$C_0$	2.36 kN
Fatigue load limit	$P_u$	0.102 kN
Limiting speed		16 000 r/min
Minimum load factor	$k_r$	0.03
Calculation factor	$f_0$	13.2

## Mass

Mass bearing	0.02 kg
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## Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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