

## W 6006-2RS1/VP311

- Popular item

### Deep groove ball bearings

#### Bearing data

[Tolerances,](#)

Normal (metric), P6, P5, Normal (inch),

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

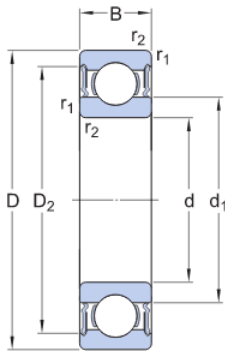
$d < 10$  mm, Other bearings

#### Bearing interfaces

[Seat tolerances for standard conditions,](#)

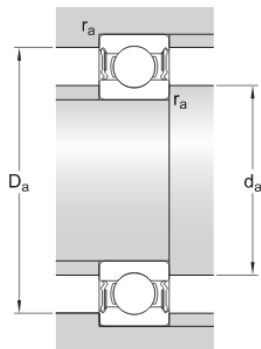
[Tolerances and resultant fits](#)

### Technical specification



#### DIMENSIONS

d	30 mm	Bore diameter
D	55 mm	Outside diameter
B	13 mm	Width
$d_1$	≈ 38 mm	Shoulder diameter
$d_2$	≈ 38 mm	Recess diameter
$D_2$	≈ 49.95 mm	Recess diameter
$r_{1,2}$	min. 1 mm	Chamfer dimension



#### ABUTMENT DIMENSIONS

$d_a$	min. 35 mm	Diameter of shaft abutment
$d_a$	max. 37.5 mm	Diameter of shaft abutment
$D_a$	max. 50.5 mm	Diameter of housing abutment
$r_a$	max. 1 mm	Radius of shaft or housing fillet

## CALCULATION DATA

Basic dynamic load rating	C	11.4 kN
Basic static load rating	$C_0$	8.15 kN
Fatigue load limit	$P_u$	0.355 kN
Limiting speed		8 000 r/min
Minimum load factor	$k_r$	0.03
Calculation factor	$f_0$	14.7

## MASS

Mass bearing	0.11 kg
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## TOLERANCE CLASS

Dimensional tolerances	Normal
Radial run-out	Normal

## 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="#">Bearing 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="#">Engineering 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="#">Bearing data</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="#">Rolling bearings mounting and dismounting instructions</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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