

309-Z

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

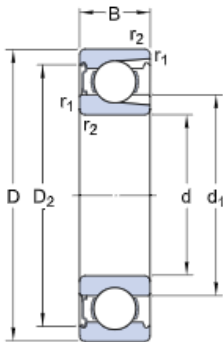
$d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

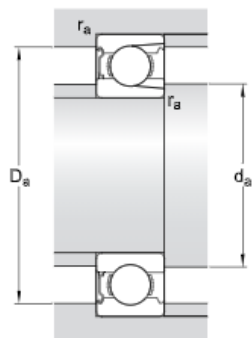
[Tolerances and resultant fits](#)

Technical specification



DIMENSIONS

d	45 mm
D	100 mm
B	25 mm
d_1	≈ 62.18 mm
D_2	≈ 86.7 mm
$r_{1,2}$	min. 1.5 mm



ABUTMENT DIMENSIONS

d_a	min. 54 mm
d_a	max. 62 mm
D_a	max. 91 mm
r_a	max. 1.5 mm

CALCULATION DATA

Basic dynamic load rating	C	55 kN
Basic static load rating	C_0	44 kN
Fatigue load limit	P_u	1.86 kN
Reference speed		13 000 r/min
Limiting speed		7 500 r/min
Calculation factor	k_T	0.05

MASS

Mass bearing	0.88 kg
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More information

<p>Product details</p> <ul style="list-style-type: none"> Single row deep groove ball bearings Stainless steel deep groove ball bearings Single row deep groove ball bearings with filling slots Double row deep groove ball bearings Bearing data Loads Temperature limits Permissible speed Designation system 	<p>Engineering information</p> <ul style="list-style-type: none"> Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing interfaces Seat tolerances for standard conditions Selecting internal clearance Lubrication Sealing, mounting and dismounting Bearing failure and how to prevent it 	<p>Tools</p> <ul style="list-style-type: none"> Bearing Select SimPro Quick Engineering Calculator LubeSelect for SKF greases Heater selection tool Rolling bearings mounting and dismounting instructions
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