



618/8

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

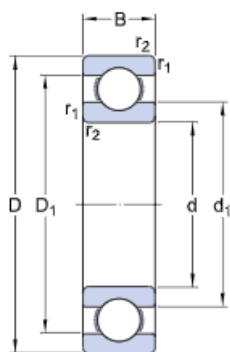
Matched bearing pairs, Stainless steel

d < 10 mm, Other bearings

Bearing interfaces

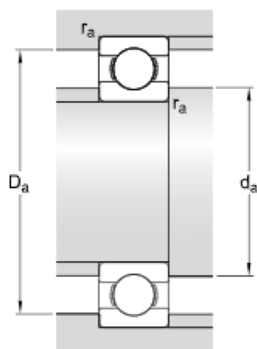
[Seat tolerances for standard conditions,](#)
[Tolerances and resultant fits](#)

Technical specification



DIMENSIONS

d	0.315 in
D	0.6299 in
B	0.1575 in
d ₁	≈ 0.4134 in
D ₁	≈ 0.5315 in
r _{1,2}	min. 0.0079 in



ABUTMENT DIMENSIONS

d _a	min. 0.3701 in
D _a	max. 0.5748 in
r _a	max. 0.0079 in

CALCULATION DATA

Basic dynamic load rating	C	184 lbf
Basic static load rating	C ₀	67 lbf
Fatigue load limit	P _u	2.7 lbf
Reference speed		90000 r/min
Limiting speed		56000 r/min
Calculation factor	k _r	0.015
Calculation factor	f ₀	7.5

MASS

Mass bearing	0.0066 lbs
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More information

Product details

[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](#)

Engineering information

[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](#)

Tools

[Bearing Select](#)[SimPro Quick](#)[Engineering Calculator](#)[LubeSelect for SKF greases](#)[Heater selection tool](#)[Rolling bearings mounting and dismounting instructions](#)

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