W 608 R-2Z

Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. 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. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	0.315 in
Outside diameter	0.866 in
Width	0.276 in

Performance

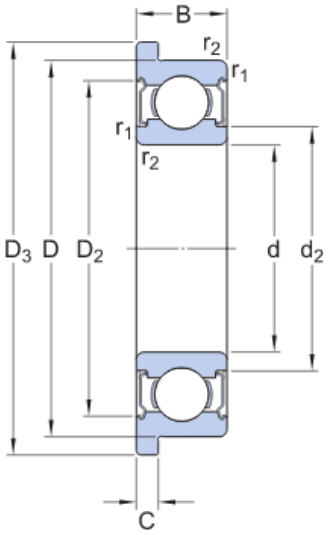
Basic dynamic load rating	447 lbf
Basic static load rating	175 lbf
Limiting speed	38 000 r/min
Reference speed	75 000 r/min

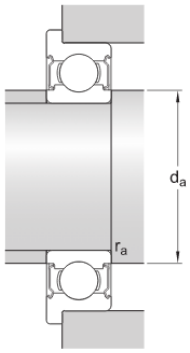
Properties

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	Flange
Lubricant	Grease
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Shield on both sides

Sealing type	Non-contact

Technical Specification





Dimensions

d	0.315 in	Bore diameter
D	0.866 in	Outside diameter
B	0.276 in	Width
d_2	≈ 0.413 in	Recess diameter
D_2	≈ 0.749 in	Recess diameter
D_3	0.984 in	Flange diameter
C	0.059 in	Flange width
$r_{1,2}$	min. 0.012 in	Chamfer dimension

Abutment dimensions

d_a	min. 0.394 in	Diameter of shaft abutment
d_a	max. 0.409 in	Diameter of shaft abutment
r_a	max. 0.012 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	447 lbf
Basic static load rating	C_0	175 lbf
Fatigue load limit	P_u	7.6 lbf
Reference speed		75 000 r/min
Limiting speed		38 000 r/min
Minimum load factor	k_r	0.03
Calculation factor	f_0	7.2

Mass

Mass bearing	0.029 lb

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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