

51110



Single direction thrust ball bearing

Single direction thrust ball bearings can accommodate axial loads in one direction. They must not be subjected to any radial load. Their separable components facilitate mounting/dismounting and maintenance inspections. Many of the components are interchangeable. The shaft washers have a ground bore that enables an interference fit.

- Separable design facilitates mounting/dismounting and maintenance inspections
- Interchangeable components
- Ground bore of shaft washers enable interference fit

Overview

Dimensions

Bore diameter	1.969 in
Height	0.551 in
Outside diameter	2.756 in

Performance

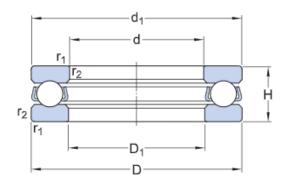
Basic dynamic load rating	6 070 lbf
Basic static load rating	16 861 lbf
Limiting speed	6 300 r/min
Reference speed	4 300 r/min

Properties

Axial load capability	Single-direction
Cage	Sheet metal
Coating	Without
Housing washer type	Flat
Material, bearing	Bearing steel
Number of rows	1
Tolerance class	Normal

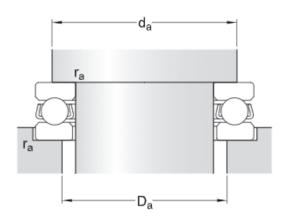


Technical Specification



Dimensions

d	1.969 in	Bore diameter
D	2.756 in	Outside diameter
Н	0.551 in	Height
d_1	≈ 2.756 in	Outside diameter shaft washer
D_1	≈ 2.047 in	Inner diameter housing washer
r _{1.2}	min. 0.024 in	Chamfer dimension washer



Abutment dimensions

d_{a}	min. 2.441 in	Abutment diameter shaft
D_{a}	max. 2.283 in	Abutment diameter housing
ra	max. 0.024 in	Fillet radius

Calculation data

Basic dynamic load rating	С	6 070 lbf
Basic static load rating	C_0	16 861 lbf
Fatigue load limit	P_{u}	629 lbf
Reference speed		4 300 r/min
Limiting speed		6 300 r/min
Minimum load factor	А	0.029



Mass

Mass bearing (including seat washer where applicable)

0.353 lb



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