

51200

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	10 mm
Outside diameter	26 mm
Thickness	11 mm

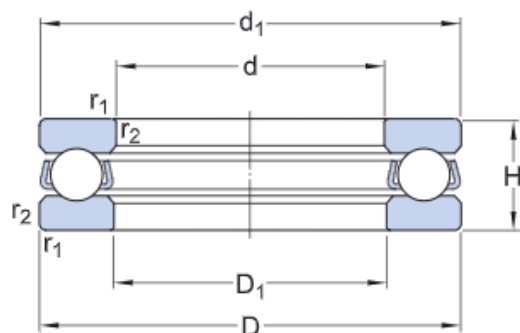
Performance

Basic dynamic load rating	12.7 kN
Basic static load rating	18.6 kN
Limiting speed	11 000 r/min
Reference speed	8 000 r/min

Properties

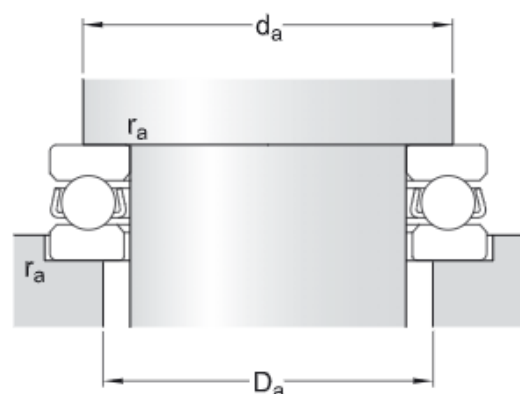
Axial load capability	Single-direction
Cage	Sheet metal
Coating	Without
Housing washer type	Flat
Material, bearing	Bearing steel
Number of rows	1
Tolerance class	Normal

Technical Specification



Dimensions

d	10 mm	Bore diameter
D	26 mm	Outside diameter
H	11 mm	Height
d ₁	≈ 26 mm	Outside diameter shaft washer
D ₁	≈ 12 mm	Inner diameter housing washer
r _{1,2}	min. 0.6 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 20 mm	Abutment diameter shaft
D _a	max. 16 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	12.7 kN
Basic static load rating	C ₀	18.6 kN
Fatigue load limit	P _u	0.695 kN
Reference speed		8 000 r/min
Limiting speed		11 000 r/min
Minimum load factor	A	0.0018

Mass

Mass bearing (including seat washer where applicable)

0.03 kg

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