

52411

Double direction thrust ball bearing

Double direction thrust ball bearings can accommodate axial loads in both directions, but they must not be subjected to any radial load. Their separable components facilitate mounting/dismounting and maintenance inspections, and 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 the shaft washers enables interference fits

Overview

Dimensions

Bore diameter	45 mm
Outside diameter	120 mm
Thickness	87 mm

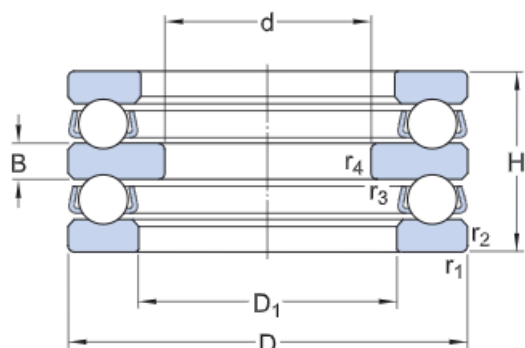
Performance

Basic dynamic load rating	195 kN
Basic static load rating	400 kN
Limiting speed	1 800 r/min
Reference speed	1 300 r/min

Properties

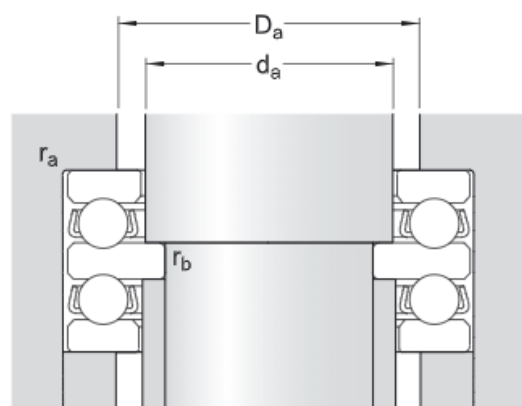
Axial load capability	Double-direction
Cage	Sheet metal
Coating	Without
Housing washer type	Flat
Material, bearing	Bearing steel
Number of rows	2
Tolerance class	Normal

Technical Specification



Dimensions

d	45 mm	Bore diameter
D	120 mm	Outside diameter
H	87 mm	Height
D ₁	≈ 57 mm	Inner diameter housing washer
B	20 mm	Height shaft washer
r _{1,2}	min. 1.5 mm	Chamfer dimension housing washer
r _{3,4}	min. 0.6 mm	Chamfer dimension shaft washer



Abutment dimensions

da	55 mm	Abutment diameter shaft
Da	max. 81 mm	Abutment diameter housing
ra	max. 1.5 mm	Fillet radius housing
rb	max. 0.6 mm	Fillet radius shaft

Calculation data

Basic dynamic load rating	C	195 kN
Basic static load rating	C ₀	400 kN
Fatigue load limit	P _u	14.6 kN
Reference speed		1 300 r/min
Limiting speed		1 800 r/min
Minimum load factor	A	0.79

Mass

Mass bearing (including seat washer where applicable)

4.7 kg

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