

54317

Double direction thrust ball bearing with sphered housing washers

Double direction thrust ball bearings with a sphered housing washer can accommodate axial loads in both directions, but they must not be subjected to any radial load. Many of the components are interchangeable. These bearings can be used together with a sphered seat washer adjacent to the housing washer or adjacent to a machine component manufactured with a sphered surface. 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 enable interference fits
- Accommodate initial misalignment
- Used with a sphered seat washer

Overview

Dimensions

Bore diameter	70 mm
Outside diameter	150 mm
Radius of aligning surface	112 mm
Thickness	95.2 mm

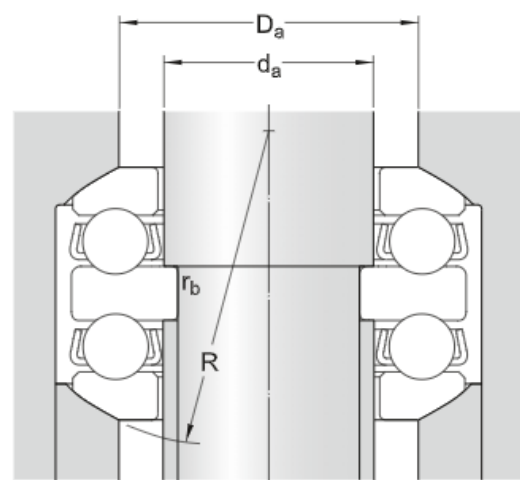
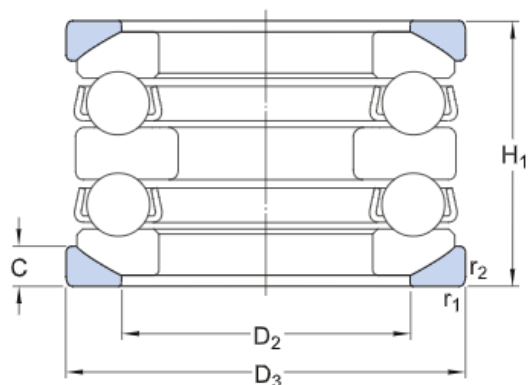
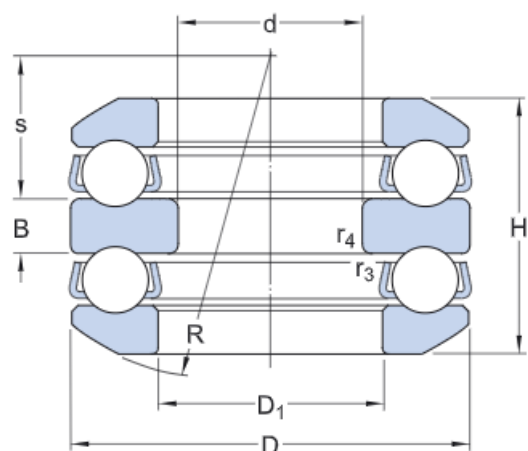
Performance

Basic dynamic load rating	174 kN
Basic static load rating	405 kN
Limiting speed	1 500 r/min
Reference speed	1 100 r/min

Properties

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

Technical Specification

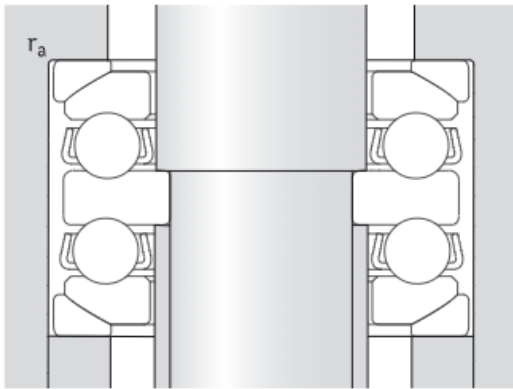


Dimensions

d	70 mm	Bore diameter
D	150 mm	Outside diameter
H	95.2 mm	Height
H_1	105 mm	Height bearing including seat washer
D_1	≈ 88 mm	Inner diameter housing washer
D_2	115 mm	Inner diameter sphered seat washer
D_3	155 mm	Outside diameter sphered housing washer
B	19 mm	Height shaft washer
C	17.5 mm	Height sphered housing washer
R	112 mm	Radius sphered housing washer
s	39 mm	Centre height housing washer sphere
$r_{1,2}$	min. 1.5 mm	Chamfer dimension housing washer
$r_{3,4}$	min. 1 mm	Chamfer dimension shaft washer

Abutment dimensions

d_a	85 mm	Abutment diameter shaft
D_a	max. 115 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius housing
r_b	max. 1 mm	Fillet radius shaft



Calculation data

Basic dynamic load rating	C	174 kN
Basic static load rating	C_0	405 kN
Fatigue load limit	P_u	14 kN
Reference speed		1 100 r/min
Limiting speed		1 500 r/min
Minimum load factor	A	1.1

Mass

Mass bearing (including seat washer where applicable)	7.95 kg
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Associated products

Seat washer	U 317
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