

54307

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	30 mm
Outside diameter	68 mm
Radius of aligning surface	56 mm
Thickness	47.2 mm

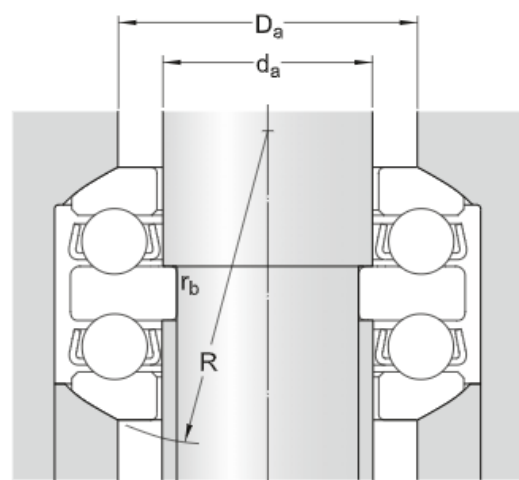
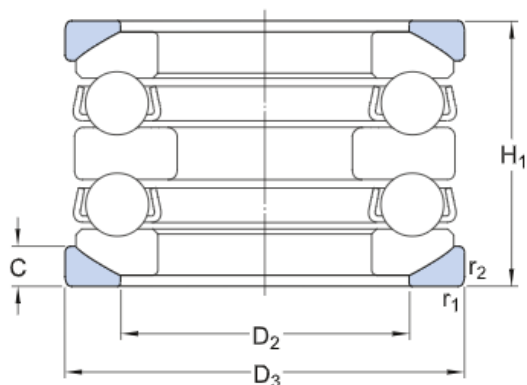
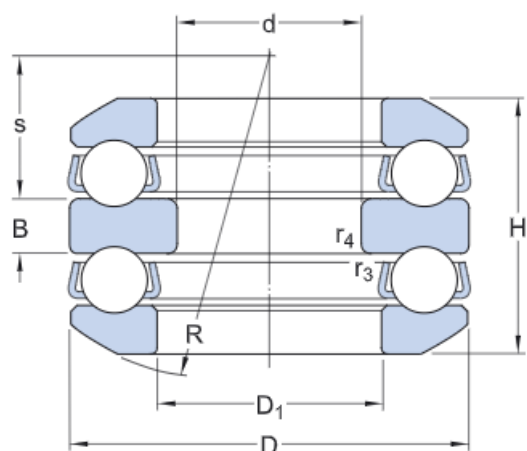
Performance

Basic dynamic load rating	49.4 kN
Basic static load rating	96.5 kN
Limiting speed	3 400 r/min
Reference speed	2 400 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

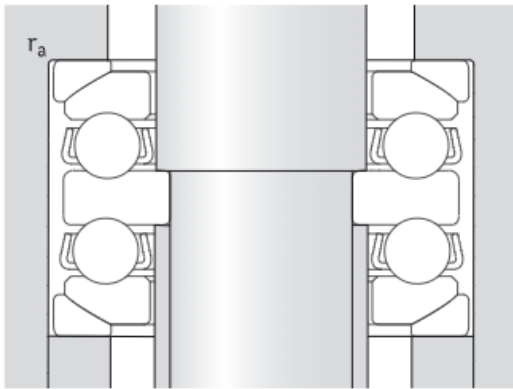


Dimensions

d	30 mm	Bore diameter
D	68 mm	Outside diameter
H	47.2 mm	Height
H_1	52 mm	Height bearing including seat washer
D_1	≈ 37 mm	Inner diameter housing washer
D_2	52 mm	Inner diameter sphered seat washer
D_3	72 mm	Outside diameter sphered housing washer
B	10 mm	Height shaft washer
C	7.5 mm	Height sphered housing washer
R	56 mm	Radius sphered housing washer
s	21 mm	Centre height housing washer sphere
$r_{1,2}$	min. 1 mm	Chamfer dimension housing washer
$r_{3,4}$	min. 0.3 mm	Chamfer dimension shaft washer

Abutment dimensions

d_a	35 mm	Abutment diameter shaft
D_a	max. 52 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius housing
r_b	max. 0.3 mm	Fillet radius shaft



Calculation data

Basic dynamic load rating	C	49.4 kN
Basic static load rating	C_0	96.5 kN
Fatigue load limit	P_u	3.55 kN
Reference speed		2 400 r/min
Limiting speed		3 400 r/min
Minimum load factor	A	0.048

Mass

Mass bearing (including seat washer where applicable)	0.85 kg
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Associated products

Seat washer	U 307
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