53408Single direction thrust ball bearing with sphered housing washer

Single direction thrust ball bearing with sphered housing washer

Single direction thrust ball bearings, with sphered housing washer, can accommodate axial loads in one direction. They must not be subjected to any radial load. Many of the components are interchangeable. The shaft washers have a ground bore that enables an interference fit. The sphered housing washers can accommodate initial misalignment when configured correctly with a sphered seat washer or a machine component with a sphered surface.

- Separable design facilitates mounting/dismounting and maintenance inspections
- Interchangeable components
- Ground bore of shaft washers enables interference fit
- Sphered housing washers can accommodate initial misalignment

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Height	38.2 mm
Radius of aligning surface	72 mm

Performance

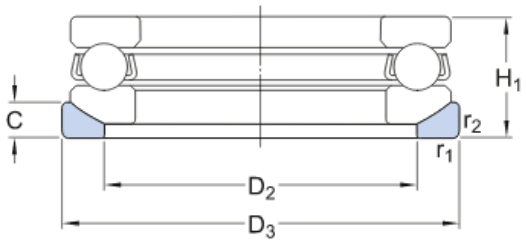
Basic dynamic load rating	95.6 kN
Basic static load rating	183 kN
Reference speed	2 400 r/min
Limiting speed	3 200 r/min

Properties

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

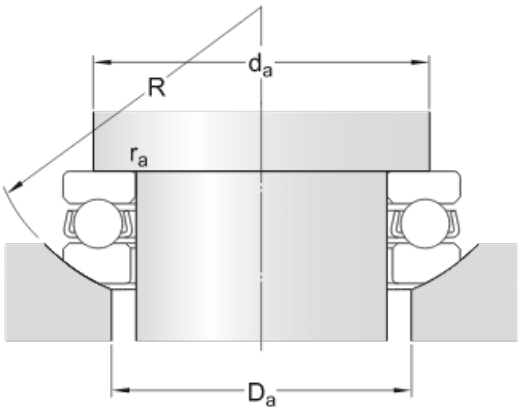
Technical Specification

NOT FOUND



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
H	38.2 mm	Height
H_1	42 mm	Height bearing including seat washer
d_1	≈ 90 mm	Outside diameter shaft washer
D_1	≈ 42 mm	Inner diameter housing washer
D_2	65 mm	Inner diameter sphered seat washer
D_3	95 mm	Outside diameter sphered housing washer
C	12 mm	Height sphered housing washer
R	72 mm	Radius sphered housing washer
s	26 mm	Centre height housing washer sphere
$r_{1,2}$	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 70 mm	Abutment diameter shaft
D_a	max. 65 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	95.6 kN
Basic static load rating	C_0	183 kN
Fatigue load limit	P_u	6.8 kN
Reference speed		2 400 r/min
Limiting speed		3 200 r/min
Minimum load factor	A	0.26

Mass

Mass bearing (including seat washer where applicable)	1.35 kg

Associated products

Seat washer	U 408

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