



Image may differ from product. See technical specification for details.

51307

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	35 mm
Outside diameter	68 mm
Height	24 mm

Performance

Basic dynamic load rating	49.4 kN
Basic static load rating	96.5 kN
Reference speed	3 400 r/min
Limiting speed	4 800 r/min

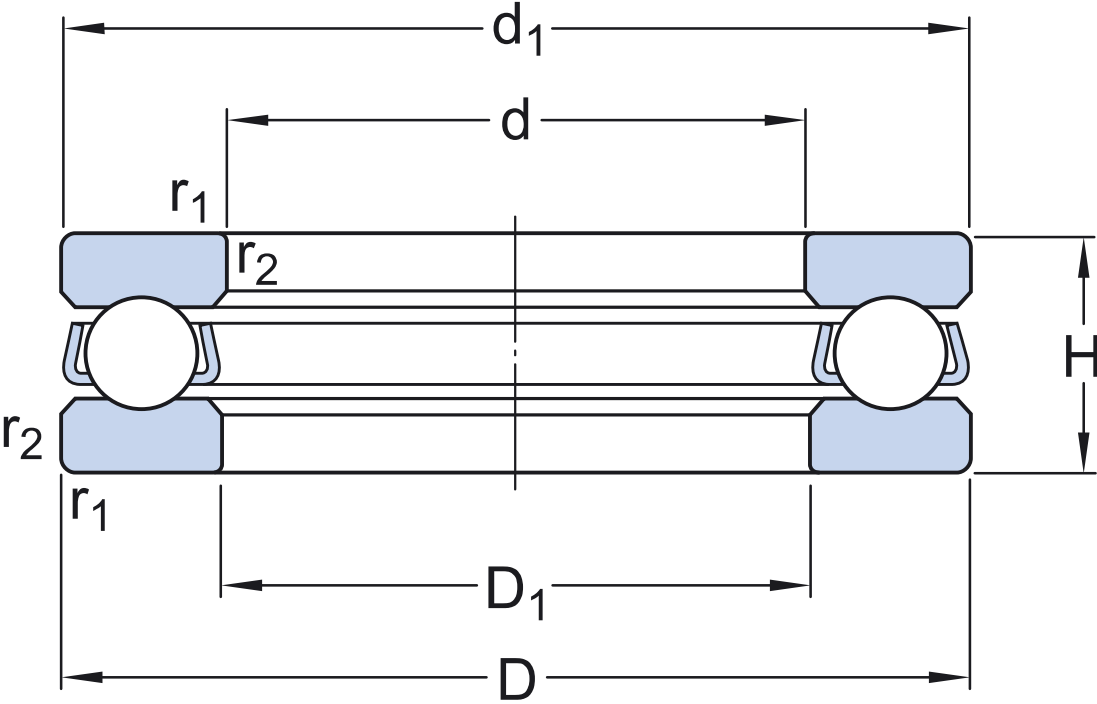
Properties

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

Logistics

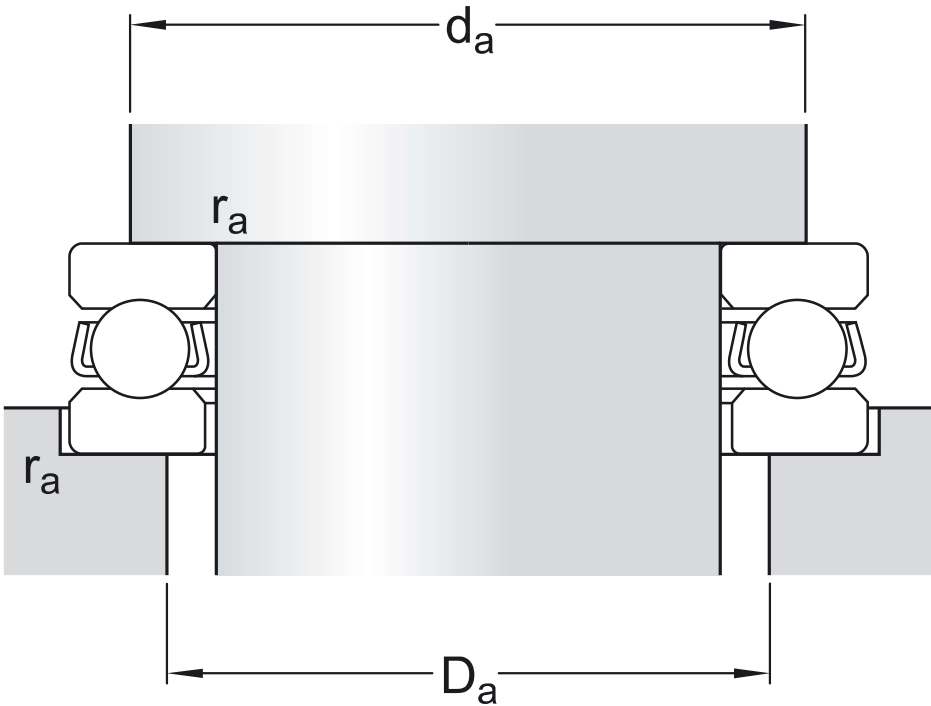
Product net weight	0.364 kg
eClass code	23-05-10-01
UNSPSC code	31171507

Technical specification



Dimensions

d	35 mm	Bore diameter
D	68 mm	Outside diameter
H	24 mm	Height
d_1	≈ 68 mm	Outside diameter shaft washer
D_1	≈ 37 mm	Inner diameter housing washer
$r_{1,2}$	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 55 mm	Abutment diameter shaft
D_a	max. 48 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

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		3 400 r/min
Limiting speed		4 800 r/min
Minimum load factor	A	0.048

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table 1



BEARING INTERFACES

- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fit](#)

More Information

 Product details Designs and variants General bearing specifications Loads Temperature limits Permissible speed Mounting Designation system	 Engineering information Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing interfaces Seat tolerances for standard conditions Lubrication External sealing, mounting and dismounting Bearing failure and how to prevent it	 Tools SKF Product select Bearing Frequency Calculator SimPro Quick LubeSelect for SKF greases Heater selection tool
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