

Упорные шарикоподшипники

Технические характеристики

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510/500 F

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	500 mm
Height	30 mm
Outside diameter	540 mm

Performance

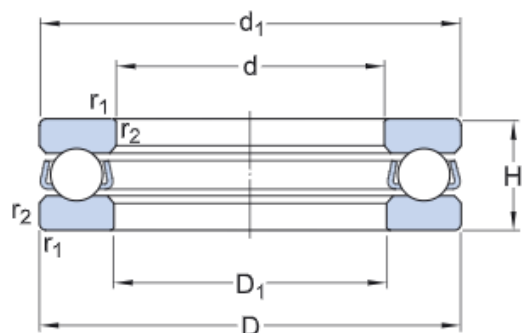
Basic dynamic load rating	133 kN
Basic static load rating	1 120 kN
Limiting speed	1 400 r/min
Reference speed	1 000 r/min

Properties

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



Technical Specification



Dimensions

d	500 mm	Bore diameter
D	540 mm	Outside diameter
H	30 mm	Height
d ₁	≈ 538.5 mm	Outside diameter shaft washer
D ₁	≈ 501.5 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 524 mm	Abutment diameter shaft
D _a	max. 516 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	133 kN
Basic static load rating	C ₀	1 120 kN
Fatigue load limit	P _u	18.3 kN
Reference speed		1 000 r/min
Limiting speed		1 400 r/min
Minimum load factor	A	6 500

510/530 F

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	530 mm
Height	38 mm
Outside diameter	580 mm

Performance

Basic dynamic load rating	203 kN
Basic static load rating	1 600 kN
Limiting speed	1 200 r/min
Reference speed	850 r/min

Properties

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



Technical Specification



Dimensions

d	530 mm	Bore diameter
D	580 mm	Outside diameter
H	38 mm	Height
d ₁	≈ 578 mm	Outside diameter shaft washer
D ₁	≈ 532 mm	Inner diameter housing washer
r _{1,2}	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

da	min. 560 mm	Abutment diameter shaft
Da	max. 550 mm	Abutment diameter housing
ra	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	203 kN
Basic static load rating	C ₀	1 600 kN
Fatigue load limit	P _u	25 kN
Reference speed		850 r/min
Limiting speed		1 200 r/min
Minimum load factor	A	13

510/560 F

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	560 mm
Height	38 mm
Outside diameter	610 mm

Performance

Basic dynamic load rating	203 kN
Basic static load rating	1 660 kN
Limiting speed	1 200 r/min
Reference speed	850 r/min

Properties

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



Technical Specification



Dimensions

d	560 mm	Bore diameter
D	610 mm	Outside diameter
H	38 mm	Height
d ₁	≈ 608 mm	Outside diameter shaft washer
D ₁	≈ 562 mm	Inner diameter housing washer
r _{1,2}	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 590 mm	Abutment diameter shaft
D _a	max. 580 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	203 kN
Basic static load rating	C ₀	1 660 kN
Fatigue load limit	P _u	25 kN
Reference speed		850 r/min
Limiting speed		1 200 r/min
Minimum load factor	A	14

511/500 F

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	500 mm
Height	80 mm
Outside diameter	600 mm

Performance

Basic dynamic load rating	553 kN
Basic static load rating	3 600 kN
Limiting speed	800 r/min
Reference speed	560 r/min

Properties

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

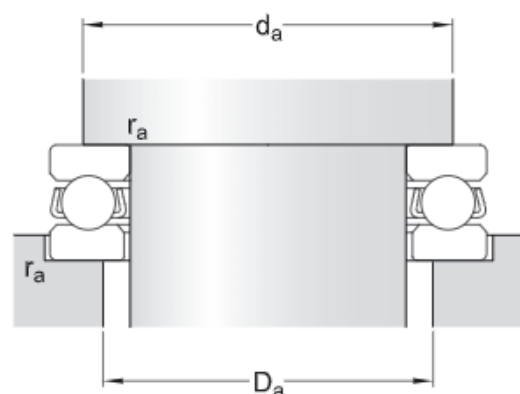


Technical Specification



Dimensions

d	500 mm	Bore diameter
D	600 mm	Outside diameter
H	80 mm	Height
d_1	≈ 596 mm	Outside diameter shaft washer
D_1	≈ 504 mm	Inner diameter housing washer
$r_{1,2}$	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 559 mm	Abutment diameter shaft
D_a	max. 541 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	553 kN
Basic static load rating	C_0	3 600 kN
Fatigue load limit	P_u	57 kN
Reference speed		560 r/min
Limiting speed		800 r/min
Minimum load factor	A	67

511/530 F

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	530 mm
Height	85 mm
Outside diameter	640 mm

Performance

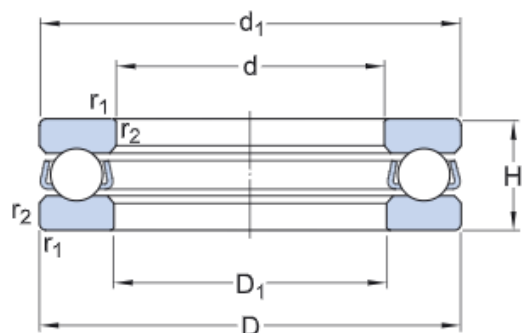
Basic dynamic load rating	650 kN
Basic static load rating	4 400 kN
Limiting speed	750 r/min
Reference speed	530 r/min

Properties

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



Technical Specification



Dimensions

d	530 mm	Bore diameter
D	640 mm	Outside diameter
H	85 mm	Height
d_1	≈ 636 mm	Outside diameter shaft washer
D_1	≈ 534 mm	Inner diameter housing washer
$r_{1,2}$	min. 3 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 595 mm	Abutment diameter shaft
D_a	max. 575 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	650 kN
Basic static load rating	C_0	4 400 kN
Fatigue load limit	P_u	68 kN
Reference speed		530 r/min
Limiting speed		750 r/min
Minimum load factor	A	100

512/500 F

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	500 mm
Height	135 mm
Outside diameter	670 mm

Performance

Basic dynamic load rating	1 010 kN
Basic static load rating	6 800 kN
Limiting speed	530 r/min
Reference speed	380 r/min

Properties

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

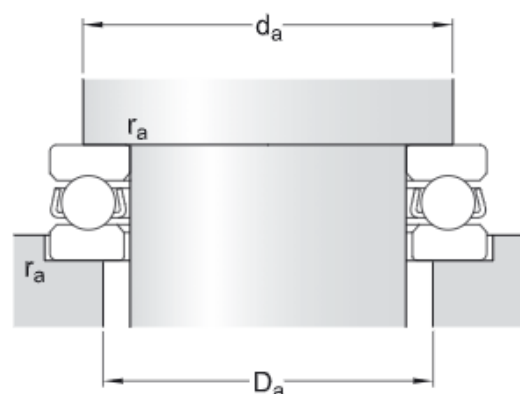


Technical Specification



Dimensions

d	500 mm	Bore diameter
D	670 mm	Outside diameter
H	135 mm	Height
d_1	≈ 664 mm	Outside diameter shaft washer
D_1	≈ 506 mm	Inner diameter housing washer
$r_{1,2}$	min. 5 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 601 mm	Abutment diameter shaft
D_a	max. 569 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 010 kN
Basic static load rating	C_0	6 800 kN
Fatigue load limit	P_u	104 kN
Reference speed		380 r/min
Limiting speed		530 r/min
Minimum load factor	A	240

591/500 F

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	500 mm
Height	60 mm
Outside diameter	600 mm

Performance

Basic dynamic load rating	449 kN
Basic static load rating	2 900 kN
Limiting speed	950 r/min
Reference speed	670 r/min

Properties

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

Technical Specification



Dimensions

d	500 mm	Bore diameter
D	600 mm	Outside diameter
H	60 mm	Height
d_1	≈ 596 mm	Outside diameter shaft washer
D_1	≈ 504 mm	Inner diameter housing washer
$r_{1,2}$	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 557 mm	Abutment diameter shaft
D_a	max. 543 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	449 kN
Basic static load rating	C_0	2 900 kN
Fatigue load limit	P_u	46.5 kN
Reference speed		670 r/min
Limiting speed		950 r/min
Minimum load factor	A	14

591/530 F

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	530 mm
Height	67 mm
Outside diameter	640 mm

Performance

Basic dynamic load rating	468 kN
Basic static load rating	3 150 kN
Limiting speed	850 r/min
Reference speed	600 r/min

Properties

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



Technical Specification



Dimensions

d	530 mm	Bore diameter
D	640 mm	Outside diameter
H	67 mm	Height
d ₁	≈ 636 mm	Outside diameter shaft washer
D ₁	≈ 534 mm	Inner diameter housing washer
r _{1,2}	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 593 mm	Abutment diameter shaft
D _a	max. 577 mm	Abutment diameter housing
r _a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	468 kN
Basic static load rating	C ₀	3 150 kN
Fatigue load limit	P _u	48 kN
Reference speed		600 r/min
Limiting speed		850 r/min
Minimum load factor	A	52

51080 F

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	400 mm
Height	30 mm
Outside diameter	440 mm

Performance

Basic dynamic load rating	124 kN
Basic static load rating	900 kN
Limiting speed	1 600 r/min
Reference speed	1 100 r/min

Properties

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



Technical Specification



Dimensions

d	400 mm	Bore diameter
D	440 mm	Outside diameter
H	30 mm	Height
d_1	≈ 438.5 mm	Outside diameter shaft washer
D_1	≈ 401.5 mm	Inner diameter housing washer
$r_{1,2}$	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 424 mm	Abutment diameter shaft
D_a	max. 416 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	124 kN
Basic static load rating	C_0	900 kN
Fatigue load limit	P_u	16.3 kN
Reference speed		1 100 r/min
Limiting speed		1 600 r/min
Minimum load factor	A	3.6

51084 F

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	420 mm
Height	30 mm
Outside diameter	460 mm

Performance

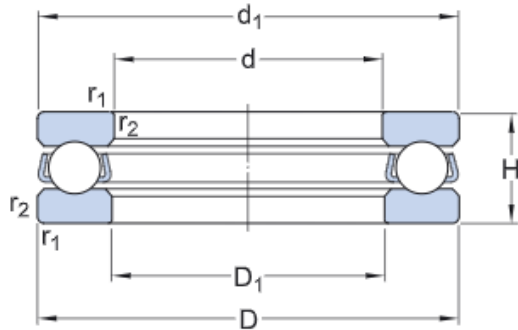
Basic dynamic load rating	125 kN
Basic static load rating	880 kN
Limiting speed	1 600 r/min
Reference speed	1 100 r/min

Properties

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

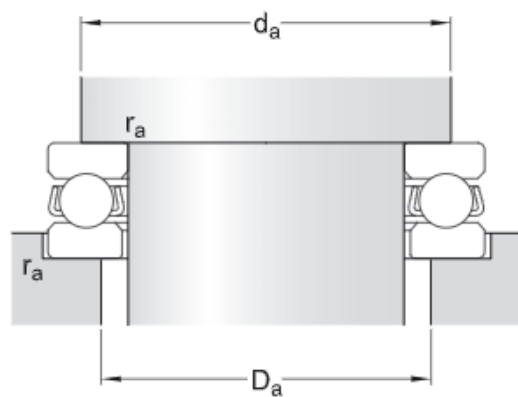


Technical Specification



Dimensions

d	420 mm	Bore diameter
D	460 mm	Outside diameter
H	30 mm	Height
d ₁	≈ 458.5 mm	Outside diameter shaft washer
D ₁	≈ 421.5 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 444 mm	Abutment diameter shaft
D _a	max. 436 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	125 kN
Basic static load rating	C ₀	880 kN
Fatigue load limit	P _u	16.6 kN
Reference speed		1 100 r/min
Limiting speed		1 600 r/min
Minimum load factor	A	4

51088 F

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	440 mm
Height	30 mm
Outside diameter	480 mm

Performance

Basic dynamic load rating	127 kN
Basic static load rating	915 kN
Limiting speed	1 500 r/min
Reference speed	1 100 r/min

Properties

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



Technical Specification



Dimensions

d	440 mm	Bore diameter
D	480 mm	Outside diameter
H	30 mm	Height
d ₁	≈ 478.5 mm	Outside diameter shaft washer
D ₁	≈ 441.5 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

da	min. 464 mm	Abutment diameter shaft
Da	max. 456 mm	Abutment diameter housing
ra	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C ₀	915 kN
Fatigue load limit	P _u	17 kN
Reference speed		1 100 r/min
Limiting speed		1 500 r/min
Minimum load factor	A	4.4

51092 F

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	460 mm
Height	30 mm
Outside diameter	500 mm

Performance

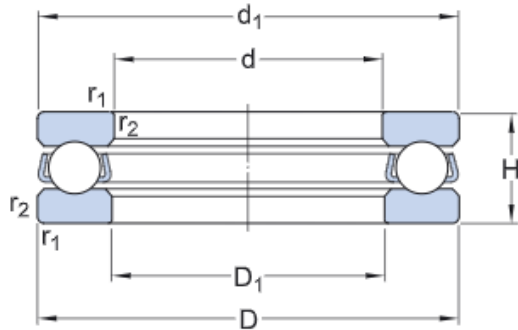
Basic dynamic load rating	130 kN
Basic static load rating	1 040 kN
Limiting speed	1 500 r/min
Reference speed	1 100 r/min

Properties

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

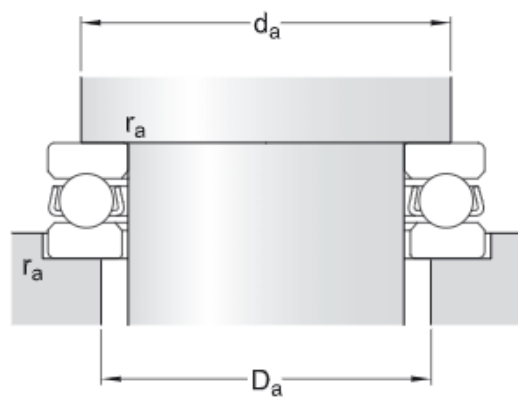


Technical Specification



Dimensions

d	460 mm	Bore diameter
D	500 mm	Outside diameter
H	30 mm	Height
d ₁	≈ 498.5 mm	Outside diameter shaft washer
D ₁	≈ 461.5 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 484 mm	Abutment diameter shaft
D _a	max. 476 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	130 kN
Basic static load rating	C ₀	1 040 kN
Fatigue load limit	P _u	17.6 kN
Reference speed		1 100 r/min
Limiting speed		1 500 r/min
Minimum load factor	A	4.7

51096 F

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	480 mm
Height	30 mm
Outside diameter	520 mm

Performance

Basic dynamic load rating	133 kN
Basic static load rating	1 000 kN
Limiting speed	1 500 r/min
Reference speed	1 000 r/min

Properties

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



Technical Specification



Dimensions

d	480 mm	Bore diameter
D	520 mm	Outside diameter
H	30 mm	Height
d ₁	≈ 518.5 mm	Outside diameter shaft washer
D ₁	≈ 481.5 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 504 mm	Abutment diameter shaft
D _a	max. 496 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	133 kN
Basic static load rating	C ₀	1 000 kN
Fatigue load limit	P _u	18 kN
Reference speed		1 000 r/min
Limiting speed		1 500 r/min
Minimum load factor	A	5.2

51100

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	10 mm
Height	9 mm
Outside diameter	24 mm

Performance

Basic dynamic load rating	8.71 kN
Basic static load rating	12.2 kN
Limiting speed	13 000 r/min
Reference speed	9 500 r/min

Properties

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



Technical Specification



Dimensions

d	10 mm	Bore diameter
D	24 mm	Outside diameter
H	9 mm	Height
d_1	≈ 24 mm	Outside diameter shaft washer
D_1	≈ 11 mm	Inner diameter housing washer
$r_{1,2}$	min. 0.3 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 19 mm	Abutment diameter shaft
D_a	max. 15 mm	Abutment diameter housing
r_a	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	8.71 kN
Basic static load rating	C_0	12.2 kN
Fatigue load limit	P_u	0.45 kN
Reference speed		9 500 r/min
Limiting speed		13 000 r/min
Minimum load factor	A	0.0012

51101

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	12 mm
Height	9 mm
Outside diameter	26 mm

Performance

Basic dynamic load rating	10.4 kN
Basic static load rating	16.6 kN
Limiting speed	13 000 r/min
Reference speed	9 000 r/min

Properties

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



Technical Specification



Dimensions

d	12 mm	Bore diameter
D	26 mm	Outside diameter
H	9 mm	Height
d ₁	≈ 26 mm	Outside diameter shaft washer
D ₁	≈ 13 mm	Inner diameter housing washer
r _{1,2}	min. 0.3 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 21 mm	Abutment diameter shaft
D _a	max. 17 mm	Abutment diameter housing
r _a	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	10.4 kN
Basic static load rating	C ₀	16.6 kN
Fatigue load limit	P _u	0.62 kN
Reference speed		9 000 r/min
Limiting speed		13 000 r/min
Minimum load factor	A	0.0014

51102

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	15 mm
Height	9 mm
Outside diameter	28 mm

Performance

Basic dynamic load rating	10.6 kN
Basic static load rating	18.3 kN
Limiting speed	12 000 r/min
Reference speed	8 500 r/min

Properties

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

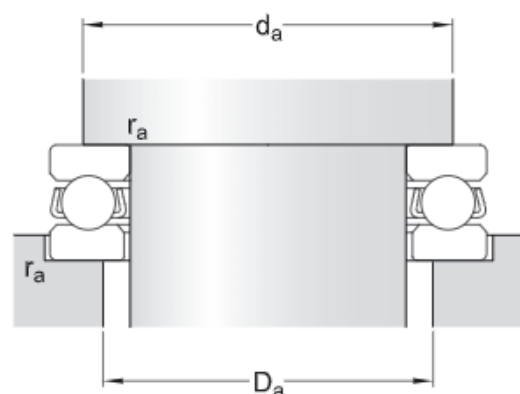


Technical Specification



Dimensions

d	15 mm	Bore diameter
D	28 mm	Outside diameter
H	9 mm	Height
d_1	≈ 28 mm	Outside diameter shaft washer
D_1	≈ 16 mm	Inner diameter housing washer
$r_{1,2}$	min. 0.3 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 23 mm	Abutment diameter shaft
D_a	max. 20 mm	Abutment diameter housing
r_a	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	10.6 kN
Basic static load rating	C_0	18.3 kN
Fatigue load limit	P_u	0.67 kN
Reference speed		8 500 r/min
Limiting speed		12 000 r/min
Minimum load factor	A	0.0017

51103

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	17 mm
Height	9 mm
Outside diameter	30 mm

Performance

Basic dynamic load rating	11.4 kN
Basic static load rating	21.2 kN
Limiting speed	12 000 r/min
Reference speed	8 500 r/min

Properties

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



Technical Specification



Dimensions

d	17 mm	Bore diameter
D	30 mm	Outside diameter
H	9 mm	Height
d ₁	≈ 30 mm	Outside diameter shaft washer
D ₁	≈ 18 mm	Inner diameter housing washer
r _{1,2}	min. 0.3 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 25 mm	Abutment diameter shaft
D _a	max. 22 mm	Abutment diameter housing
r _a	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	11.4 kN
Basic static load rating	C ₀	21.2 kN
Fatigue load limit	P _u	0.78 kN
Reference speed		8 500 r/min
Limiting speed		12 000 r/min
Minimum load factor	A	0.0023

51104

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	20 mm
Height	10 mm
Outside diameter	35 mm

Performance

Basic dynamic load rating	15.1 kN
Basic static load rating	29 kN
Limiting speed	10 000 r/min
Reference speed	7 500 r/min

Properties

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



Technical Specification



Dimensions

d	20 mm	Bore diameter
D	35 mm	Outside diameter
H	10 mm	Height
d ₁	≈ 35 mm	Outside diameter shaft washer
D ₁	≈ 21 mm	Inner diameter housing washer
r _{1,2}	min. 0.3 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 29 mm	Abutment diameter shaft
D _a	max. 26 mm	Abutment diameter housing
r _a	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	15.1 kN
Basic static load rating	C ₀	29 kN
Fatigue load limit	P _u	1.08 kN
Reference speed		7 500 r/min
Limiting speed		10 000 r/min
Minimum load factor	A	0.0044

51105

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	25 mm
Height	11 mm
Outside diameter	42 mm

Performance

Basic dynamic load rating	18.2 kN
Basic static load rating	39 kN
Limiting speed	9 000 r/min
Reference speed	6 300 r/min

Properties

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



Technical Specification



Dimensions

d	25 mm	Bore diameter
D	42 mm	Outside diameter
H	11 mm	Height
d_1	≈ 42 mm	Outside diameter shaft washer
D_1	≈ 26 mm	Inner diameter housing washer
$r_{1,2}$	min. 0.6 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 35 mm	Abutment diameter shaft
D_a	max. 32 mm	Abutment diameter housing
r_a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	18.2 kN
Basic static load rating	C_0	39 kN
Fatigue load limit	P_u	1.43 kN
Reference speed		6 300 r/min
Limiting speed		9 000 r/min
Minimum load factor	A	0.0079

51106

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	30 mm
Height	11 mm
Outside diameter	47 mm

Performance

Basic dynamic load rating	19 kN
Basic static load rating	43 kN
Limiting speed	8 500 r/min
Reference speed	6 000 r/min

Properties

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



Technical Specification



Dimensions

d	30 mm	Bore diameter
D	47 mm	Outside diameter
H	11 mm	Height
d ₁	≈ 47 mm	Outside diameter shaft washer
D ₁	≈ 32 mm	Inner diameter housing washer
r _{1,2}	min. 0.6 mm	Chamfer dimension washer



Abutment dimensions

da	min. 40 mm	Abutment diameter shaft
Da	max. 37 mm	Abutment diameter housing
ra	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	19 kN
Basic static load rating	C ₀	43 kN
Fatigue load limit	P _u	1.6 kN
Reference speed		6 000 r/min
Limiting speed		8 500 r/min
Minimum load factor	A	0.0096

51107

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
Height	12 mm
Outside diameter	52 mm

Performance

Basic dynamic load rating	19.9 kN
Basic static load rating	51 kN
Limiting speed	7 500 r/min
Reference speed	5 600 r/min

Properties

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



Technical Specification



Dimensions

d	35 mm	Bore diameter
D	52 mm	Outside diameter
H	12 mm	Height
d ₁	≈ 52 mm	Outside diameter shaft washer
D ₁	≈ 37 mm	Inner diameter housing washer
r _{1,2}	min. 0.6 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 45 mm	Abutment diameter shaft
D _a	max. 42 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	19.9 kN
Basic static load rating	C ₀	51 kN
Fatigue load limit	P _u	1.86 kN
Reference speed		5 600 r/min
Limiting speed		7 500 r/min
Minimum load factor	A	0.013

51108

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	40 mm
Height	13 mm
Outside diameter	60 mm

Performance

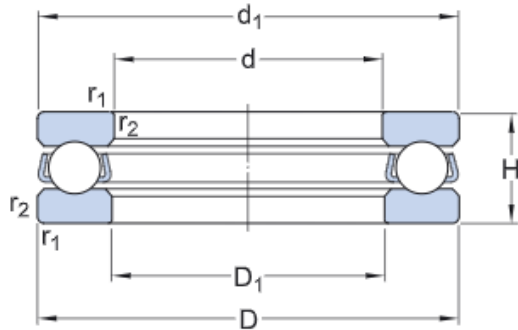
Basic dynamic load rating	25.5 kN
Basic static load rating	63 kN
Limiting speed	7 000 r/min
Reference speed	5 000 r/min

Properties

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

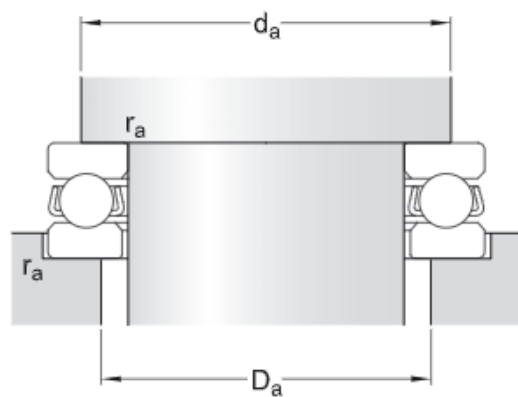


Technical Specification



Dimensions

d	40 mm	Bore diameter
D	60 mm	Outside diameter
H	13 mm	Height
d_1	≈ 60 mm	Outside diameter shaft washer
D_1	≈ 42 mm	Inner diameter housing washer
$r_{1,2}$	min. 0.6 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 52 mm	Abutment diameter shaft
D_a	max. 48 mm	Abutment diameter housing
r_a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	25.5 kN
Basic static load rating	C_0	63 kN
Fatigue load limit	P_u	2.32 kN
Reference speed		5 000 r/min
Limiting speed		7 000 r/min
Minimum load factor	A	0.02

51109

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	45 mm
Height	14 mm
Outside diameter	65 mm

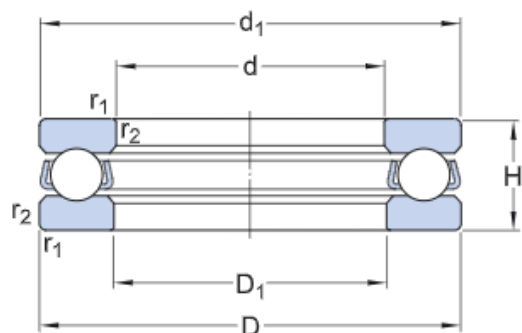
Performance

Basic dynamic load rating	26.5 kN
Basic static load rating	69.5 kN
Limiting speed	6 300 r/min
Reference speed	4 500 r/min

Properties

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

Technical Specification



Dimensions

d	45 mm	Bore diameter
D	65 mm	Outside diameter
H	14 mm	Height
d ₁	≈ 65 mm	Outside diameter shaft washer
D ₁	≈ 47 mm	Inner diameter housing washer
r _{1,2}	min. 0.6 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 57 mm	Abutment diameter shaft
D _a	max. 53 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	26.5 kN
Basic static load rating	C ₀	69.5 kN
Fatigue load limit	P _u	2.55 kN
Reference speed		4 500 r/min
Limiting speed		6 300 r/min
Minimum load factor	A	0.025

51110

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	50 mm
Height	14 mm
Outside diameter	70 mm

Performance

Basic dynamic load rating	27 kN
Basic static load rating	75 kN
Limiting speed	6 300 r/min
Reference speed	4 300 r/min

Properties

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



Technical Specification



Dimensions

d	50 mm	Bore diameter
D	70 mm	Outside diameter
H	14 mm	Height
d ₁	≈ 70 mm	Outside diameter shaft washer
D ₁	≈ 52 mm	Inner diameter housing washer
r _{1,2}	min. 0.6 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 62 mm	Abutment diameter shaft
D _a	max. 58 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	27 kN
Basic static load rating	C ₀	75 kN
Fatigue load limit	P _u	2.8 kN
Reference speed		4 300 r/min
Limiting speed		6 300 r/min
Minimum load factor	A	0.029

51111

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	55 mm
Height	16 mm
Outside diameter	78 mm

Performance

Basic dynamic load rating	30.2 kN
Basic static load rating	81.5 kN
Limiting speed	5 300 r/min
Reference speed	3 800 r/min

Properties

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

Technical Specification



Dimensions

d	55 mm	Bore diameter
D	78 mm	Outside diameter
H	16 mm	Height
d ₁	≈ 78 mm	Outside diameter shaft washer
D ₁	≈ 57 mm	Inner diameter housing washer
r _{1,2}	min. 0.6 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 69 mm	Abutment diameter shaft
D _a	max. 64 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	30.2 kN
Basic static load rating	C ₀	81.5 kN
Fatigue load limit	P _u	3 kN
Reference speed		3 800 r/min
Limiting speed		5 300 r/min
Minimum load factor	A	0.039

51112

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	60 mm
Height	17 mm
Outside diameter	85 mm

Performance

Basic dynamic load rating	41.6 kN
Basic static load rating	122 kN
Limiting speed	5 000 r/min
Reference speed	3 600 r/min

Properties

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



Technical Specification



Dimensions

d	60 mm	Bore diameter
D	85 mm	Outside diameter
H	17 mm	Height
d ₁	≈ 85 mm	Outside diameter shaft washer
D ₁	≈ 62 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 75 mm	Abutment diameter shaft
D _a	max. 70 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	41.6 kN
Basic static load rating	C ₀	122 kN
Fatigue load limit	P _u	4.55 kN
Reference speed		3 600 r/min
Limiting speed		5 000 r/min
Minimum load factor	A	0.077

51113

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	65 mm
Height	18 mm
Outside diameter	90 mm

Performance

Basic dynamic load rating	37.7 kN
Basic static load rating	108 kN
Limiting speed	4 800 r/min
Reference speed	3 400 r/min

Properties

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

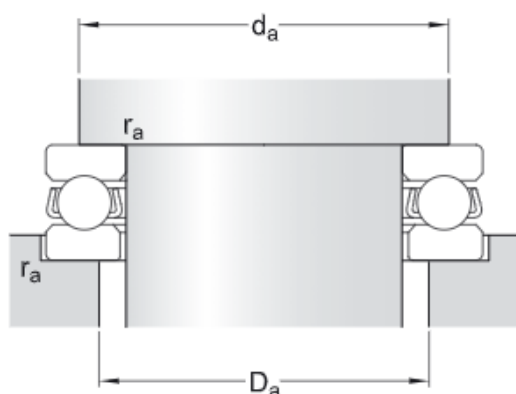


Technical Specification



Dimensions

d	65 mm	Bore diameter
D	90 mm	Outside diameter
H	18 mm	Height
d_1	≈ 90 mm	Outside diameter shaft washer
D_1	≈ 67 mm	Inner diameter housing washer
$r_{1,2}$	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d_a min. 80 mm	Abutment diameter shaft
D_a max. 75 mm	Abutment diameter housing
r_a max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	37.7 kN
Basic static load rating	C ₀	108 kN
Fatigue load limit	P _u	4 kN
Reference speed		3 400 r/min
Limiting speed		4 800 r/min
Minimum load factor	A	0.06

51114

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	70 mm
Height	18 mm
Outside diameter	95 mm

Performance

Basic dynamic load rating	40.3 kN
Basic static load rating	120 kN
Limiting speed	4 500 r/min
Reference speed	3 400 r/min

Properties

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



Technical Specification



Dimensions

d	70 mm	Bore diameter
D	95 mm	Outside diameter
H	18 mm	Height
d ₁	≈ 95 mm	Outside diameter shaft washer
D ₁	≈ 72 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 85 mm	Abutment diameter shaft
D _a	max. 80 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	40.3 kN
Basic static load rating	C ₀	120 kN
Fatigue load limit	P _u	4.4 kN
Reference speed		3 400 r/min
Limiting speed		4 500 r/min
Minimum load factor	A	0.074

51115

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	75 mm
Height	19 mm
Outside diameter	100 mm

Performance

Basic dynamic load rating	44.2 kN
Basic static load rating	134 kN
Limiting speed	4 300 r/min
Reference speed	3 200 r/min

Properties

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



Technical Specification



Dimensions

d	75 mm	Bore diameter
D	100 mm	Outside diameter
H	19 mm	Height
d ₁	≈ 100 mm	Outside diameter shaft washer
D ₁	≈ 77 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 90 mm	Abutment diameter shaft
D _a	max. 85 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	44.2 kN
Basic static load rating	C ₀	134 kN
Fatigue load limit	P _u	4.9 kN
Reference speed		3 200 r/min
Limiting speed		4 300 r/min
Minimum load factor	A	0.11

51116

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	80 mm
Height	19 mm
Outside diameter	105 mm

Performance

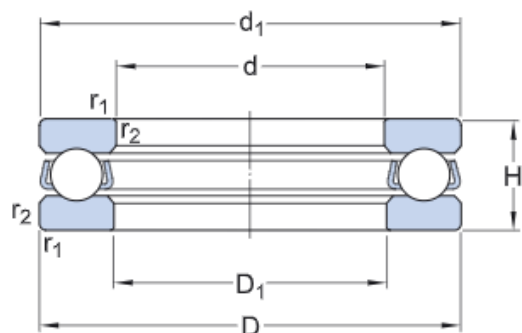
Basic dynamic load rating	44.9 kN
Basic static load rating	140 kN
Limiting speed	4 300 r/min
Reference speed	3 000 r/min

Properties

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



Technical Specification



Dimensions

d	80 mm	Bore diameter
D	105 mm	Outside diameter
H	19 mm	Height
d ₁	≈ 105 mm	Outside diameter shaft washer
D ₁	≈ 82 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 95 mm	Abutment diameter shaft
D _a	max. 90 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	44.9 kN
Basic static load rating	C ₀	140 kN
Fatigue load limit	P _u	5.1 kN
Reference speed		3 000 r/min
Limiting speed		4 300 r/min
Minimum load factor	A	0.12

51117

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	85 mm
Height	19 mm
Outside diameter	110 mm

Performance

Basic dynamic load rating	44.9 kN
Basic static load rating	146 kN
Limiting speed	4 300 r/min
Reference speed	3 000 r/min

Properties

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



Technical Specification



Dimensions

d	85 mm	Bore diameter
D	110 mm	Outside diameter
H	19 mm	Height
d ₁	≈ 110 mm	Outside diameter shaft washer
D ₁	≈ 87 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 100 mm	Abutment diameter shaft
D _a	max. 95 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	44.9 kN
Basic static load rating	C ₀	146 kN
Fatigue load limit	P _u	5.4 kN
Reference speed		3 000 r/min
Limiting speed		4 300 r/min
Minimum load factor	A	0.14

51118

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	90 mm
Height	22 mm
Outside diameter	120 mm

Performance

Basic dynamic load rating	59.2 kN
Basic static load rating	208 kN
Limiting speed	3 800 r/min
Reference speed	2 600 r/min

Properties

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



Technical Specification



Dimensions

d	90 mm	Bore diameter
D	120 mm	Outside diameter
H	22 mm	Height
d_1	≈ 120 mm	Outside diameter shaft washer
D_1	≈ 92 mm	Inner diameter housing washer
$r_{1,2}$	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 108 mm	Abutment diameter shaft
D_a	max. 102 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	59.2 kN
Basic static load rating	C_0	208 kN
Fatigue load limit	P_u	7.5 kN
Reference speed		2 600 r/min
Limiting speed		3 800 r/min
Minimum load factor	A	0.22

51120

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	100 mm
Height	25 mm
Outside diameter	135 mm

Performance

Basic dynamic load rating	80.6 kN
Basic static load rating	265 kN
Limiting speed	3 200 r/min
Reference speed	2 400 r/min

Properties

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



Technical Specification



Dimensions

d	100 mm	Bore diameter
D	135 mm	Outside diameter
H	25 mm	Height
d_1	≈ 135 mm	Outside diameter shaft washer
D_1	≈ 102 mm	Inner diameter housing washer
$r_{1,2}$	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 121 mm	Abutment diameter shaft
D_a	max. 114 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	80.6 kN
Basic static load rating	C_0	265 kN
Fatigue load limit	P_u	9.15 kN
Reference speed		2 400 r/min
Limiting speed		3 200 r/min
Minimum load factor	A	0.44

51122

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	110 mm
Height	25 mm
Outside diameter	145 mm

Performance

Basic dynamic load rating	83.2 kN
Basic static load rating	285 kN
Limiting speed	3 200 r/min
Reference speed	2 200 r/min

Properties

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



Technical Specification



Dimensions

d	110 mm	Bore diameter
D	145 mm	Outside diameter
H	25 mm	Height
d_1	≈ 145 mm	Outside diameter shaft washer
D_1	≈ 112 mm	Inner diameter housing washer
$r_{1,2}$	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 131 mm	Abutment diameter shaft
D_a	max. 124 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	83.2 kN
Basic static load rating	C_0	285 kN
Fatigue load limit	P_u	9.5 kN
Reference speed		2 200 r/min
Limiting speed		3 200 r/min
Minimum load factor	A	0.52

51124

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	120 mm
Height	25 mm
Outside diameter	155 mm

Performance

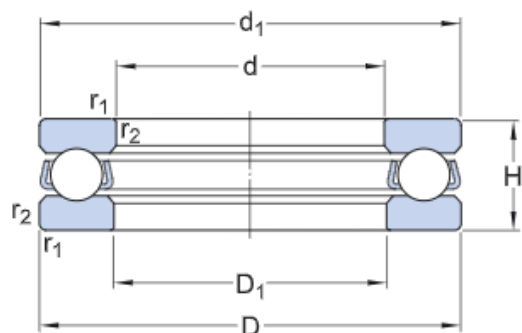
Basic dynamic load rating	85.2 kN
Basic static load rating	305 kN
Limiting speed	3 000 r/min
Reference speed	2 200 r/min

Properties

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



Technical Specification



Dimensions

d	120 mm	Bore diameter
D	155 mm	Outside diameter
H	25 mm	Height
d_1	≈ 155 mm	Outside diameter shaft washer
D_1	≈ 122 mm	Inner diameter housing washer
$r_{1,2}$	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 141 mm	Abutment diameter shaft
D_a	max. 134 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	85.2 kN
Basic static load rating	C_0	305 kN
Fatigue load limit	P_u	9.65 kN
Reference speed		2 200 r/min
Limiting speed		3 000 r/min
Minimum load factor	A	0.58

51126

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	130 mm
Height	30 mm
Outside diameter	170 mm

Performance

Basic dynamic load rating	119 kN
Basic static load rating	440 kN
Limiting speed	2 600 r/min
Reference speed	1 900 r/min

Properties

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

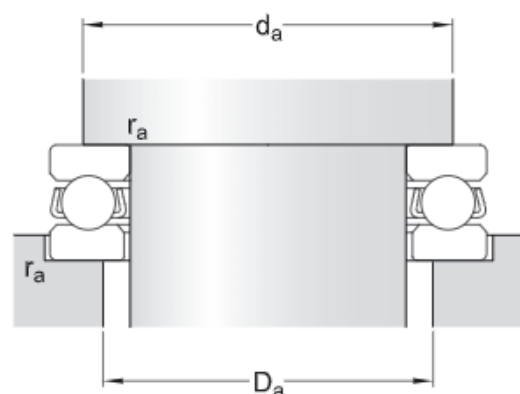


Technical Specification



Dimensions

d	130 mm	Bore diameter
D	170 mm	Outside diameter
H	30 mm	Height
d ₁	≈ 170 mm	Outside diameter shaft washer
D ₁	≈ 132 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 154 mm	Abutment diameter shaft
D _a	max. 146 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	119 kN
Basic static load rating	C ₀	440 kN
Fatigue load limit	P _u	13.4 kN
Reference speed		1 900 r/min
Limiting speed		2 600 r/min
Minimum load factor	A	0.94

51128

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	140 mm
Height	31 mm
Outside diameter	180 mm

Performance

Basic dynamic load rating	111 kN
Basic static load rating	440 kN
Limiting speed	2 600 r/min
Reference speed	1 800 r/min

Properties

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



Technical Specification



Dimensions

d	140 mm	Bore diameter
D	180 mm	Outside diameter
H	31 mm	Height
d_1	≈ 178 mm	Outside diameter shaft washer
D_1	≈ 142 mm	Inner diameter housing washer
$r_{1,2}$	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 164 mm	Abutment diameter shaft
D_a	max. 156 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	111 kN
Basic static load rating	C_0	440 kN
Fatigue load limit	P_u	12.9 kN
Reference speed		1 800 r/min
Limiting speed		2 600 r/min
Minimum load factor	A	1

51130 M

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

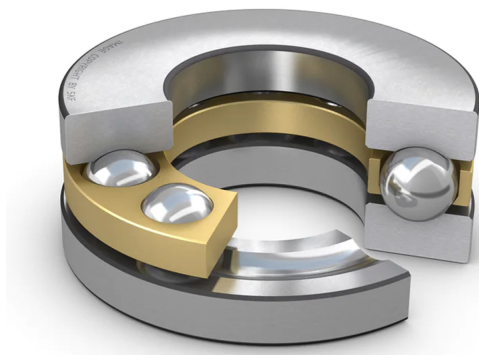
Bore diameter	150 mm
Height	31 mm
Outside diameter	190 mm

Performance

Basic dynamic load rating	111 kN
Basic static load rating	440 kN
Limiting speed	2 400 r/min
Reference speed	1 700 r/min

Properties

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



Technical Specification



Dimensions

d	150 mm	Bore diameter
D	190 mm	Outside diameter
H	31 mm	Height
d_1	≈ 188 mm	Outside diameter shaft washer
D_1	≈ 152 mm	Inner diameter housing washer
$r_{1,2}$	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 174 mm	Abutment diameter shaft
D_a	max. 166 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	111 kN
Basic static load rating	C_0	440 kN
Fatigue load limit	P_u	12.5 kN
Reference speed		1 700 r/min
Limiting speed		2 400 r/min
Minimum load factor	A	1

51132 M

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

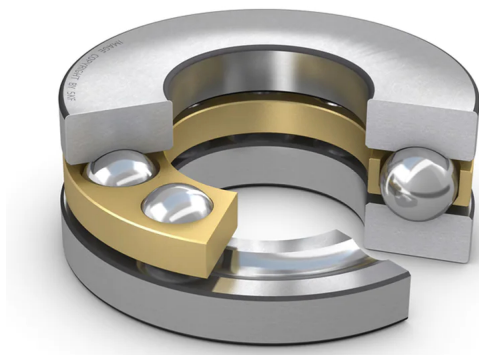
Bore diameter	160 mm
Height	31 mm
Outside diameter	200 mm

Performance

Basic dynamic load rating	112 kN
Basic static load rating	465 kN
Limiting speed	2 400 r/min
Reference speed	1 700 r/min

Properties

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



Technical Specification



Dimensions

d	160 mm	Bore diameter
D	200 mm	Outside diameter
H	31 mm	Height
d_1	≈ 198 mm	Outside diameter shaft washer
D_1	≈ 162 mm	Inner diameter housing washer
$r_{1,2}$	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 184 mm	Abutment diameter shaft
D_a	max. 176 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	465 kN
Fatigue load limit	P_u	12.9 kN
Reference speed		1 700 r/min
Limiting speed		2 400 r/min
Minimum load factor	A	1.1

51134 M

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

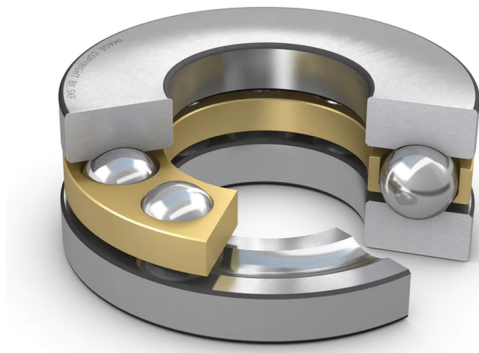
Bore diameter	170 mm
Height	34 mm
Outside diameter	215 mm

Performance

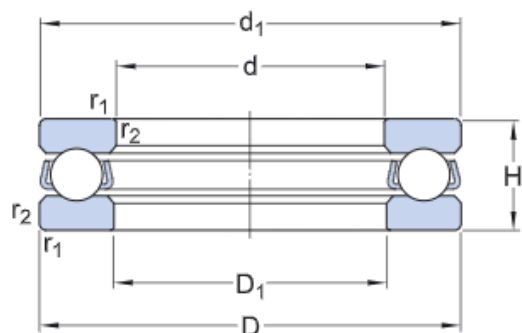
Basic dynamic load rating	133 kN
Basic static load rating	540 kN
Limiting speed	2 200 r/min
Reference speed	1 600 r/min

Properties

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

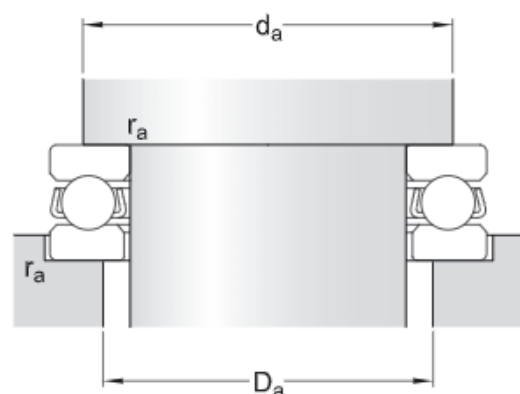


Technical Specification



Dimensions

d	170 mm	Bore diameter
D	215 mm	Outside diameter
H	34 mm	Height
d_1	≈ 213 mm	Outside diameter shaft washer
D_1	≈ 172 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 197 mm	Abutment diameter shaft
D_a	max. 188 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	133 kN
Basic static load rating	C_0	540 kN
Fatigue load limit	P_u	14.3 kN
Reference speed		1 600 r/min
Limiting speed		2 200 r/min
Minimum load factor	A	1.5

51136 M

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

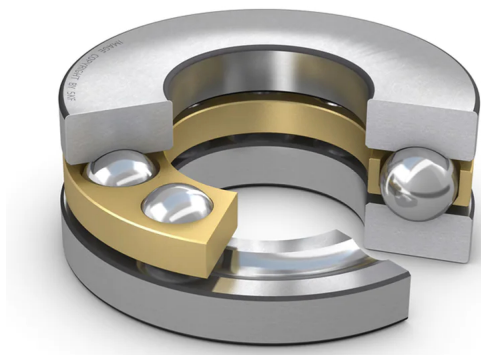
Bore diameter	180 mm
Height	34 mm
Outside diameter	225 mm

Performance

Basic dynamic load rating	135 kN
Basic static load rating	570 kN
Limiting speed	2 200 r/min
Reference speed	1 500 r/min

Properties

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



Technical Specification



Dimensions

d	180 mm	Bore diameter
D	225 mm	Outside diameter
H	34 mm	Height
d_1	≈ 222 mm	Outside diameter shaft washer
D_1	≈ 183 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 207 mm	Abutment diameter shaft
D_a	max. 198 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	135 kN
Basic static load rating	C_0	570 kN
Fatigue load limit	P_u	15 kN
Reference speed		1 500 r/min
Limiting speed		2 200 r/min
Minimum load factor	A	1.7

51138 M

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

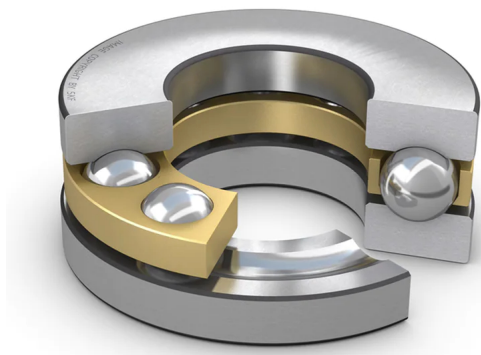
Bore diameter	190 mm
Height	37 mm
Outside diameter	240 mm

Performance

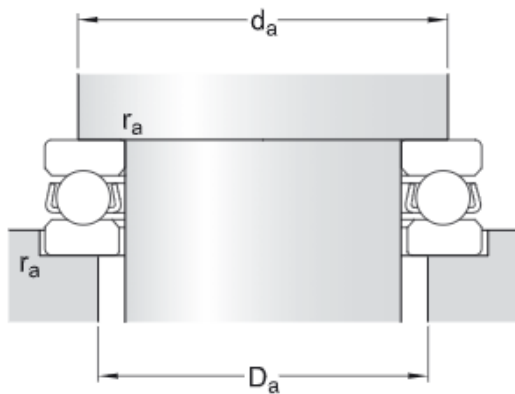
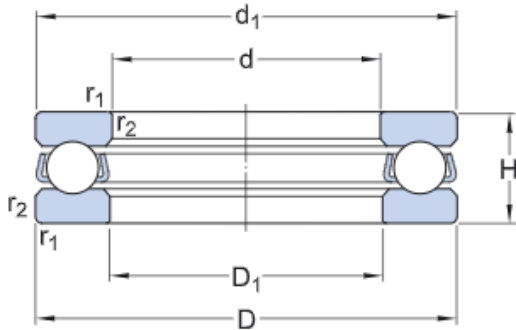
Basic dynamic load rating	172 kN
Basic static load rating	710 kN
Limiting speed	2 000 r/min
Reference speed	1 400 r/min

Properties

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



Technical Specification



Dimensions

d	190 mm	Bore diameter
D	240 mm	Outside diameter
H	37 mm	Height
d_1	≈ 237 mm	Outside diameter shaft washer
D_1	≈ 193 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.1 mm	Chamfer dimension washer

Abutment dimensions

d_a min. 220 mm	Abutment diameter shaft
D_a max. 210 mm	Abutment diameter housing
r_a max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	172 kN
Basic static load rating	C ₀	710 kN
Fatigue load limit	P _u	18 kN
Reference speed		1 400 r/min
Limiting speed		2 000 r/min
Minimum load factor	A	2.6

51140 M

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

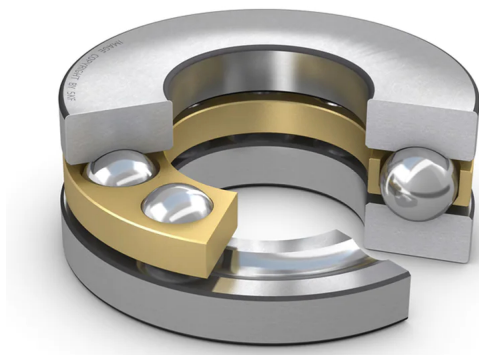
Bore diameter	200 mm
Height	37 mm
Outside diameter	250 mm

Performance

Basic dynamic load rating	168 kN
Basic static load rating	710 kN
Limiting speed	1 900 r/min
Reference speed	1 400 r/min

Properties

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



Technical Specification



Dimensions

d	200 mm	Bore diameter
D	250 mm	Outside diameter
H	37 mm	Height
d ₁	≈ 247 mm	Outside diameter shaft washer
D ₁	≈ 203 mm	Inner diameter housing washer
r _{1,2}	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 230 mm	Abutment diameter shaft
D _a	max. 220 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	168 kN
Basic static load rating	C ₀	710 kN
Fatigue load limit	P _u	17.6 kN
Reference speed		1 400 r/min
Limiting speed		1 900 r/min
Minimum load factor	A	2.6

51144 M

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

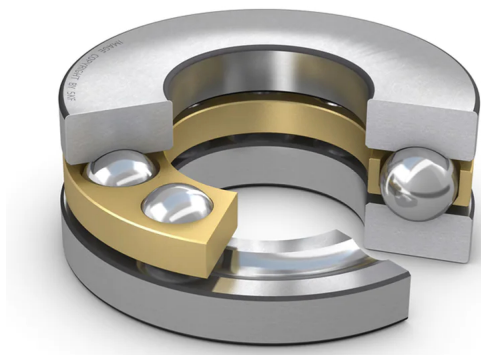
Bore diameter	220 mm
Height	37 mm
Outside diameter	270 mm

Performance

Basic dynamic load rating	178 kN
Basic static load rating	800 kN
Limiting speed	1 900 r/min
Reference speed	1 300 r/min

Properties

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



Technical Specification



Dimensions

d	220 mm	Bore diameter
D	270 mm	Outside diameter
H	37 mm	Height
d ₁	≈ 267 mm	Outside diameter shaft washer
D ₁	≈ 223 mm	Inner diameter housing washer
r _{1,2}	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 250 mm	Abutment diameter shaft
D _a	max. 240 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	178 kN
Basic static load rating	C ₀	800 kN
Fatigue load limit	P _u	19 kN
Reference speed		1 300 r/min
Limiting speed		1 900 r/min
Minimum load factor	A	3.3

51148 M

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

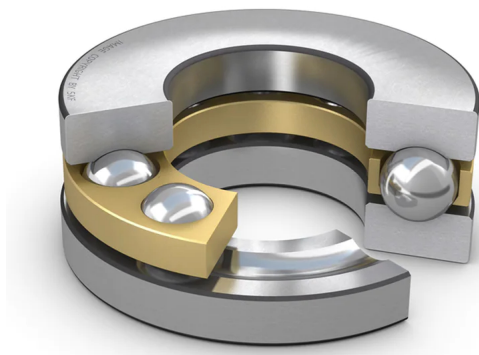
Bore diameter	240 mm
Height	45 mm
Outside diameter	300 mm

Performance

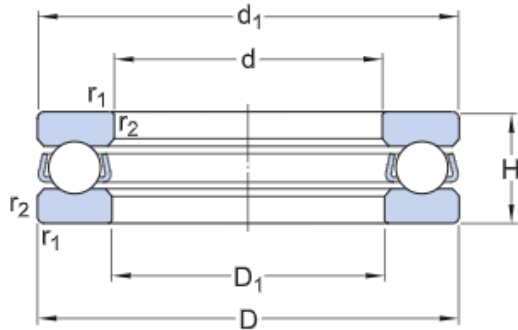
Basic dynamic load rating	234 kN
Basic static load rating	1 040 kN
Limiting speed	1 600 r/min
Reference speed	1 100 r/min

Properties

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

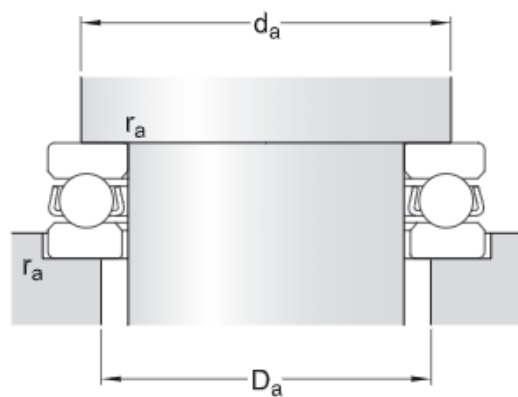


Technical Specification



Dimensions

d	240 mm	Bore diameter
D	300 mm	Outside diameter
H	45 mm	Height
d_1	≈ 297 mm	Outside diameter shaft washer
D_1	≈ 243 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 276 mm	Abutment diameter shaft
D_a	max. 264 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	234 kN
Basic static load rating	C_0	1 040 kN
Fatigue load limit	P_u	23.6 kN
Reference speed		1 100 r/min
Limiting speed		1 600 r/min
Minimum load factor	A	5.6

51152 M

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

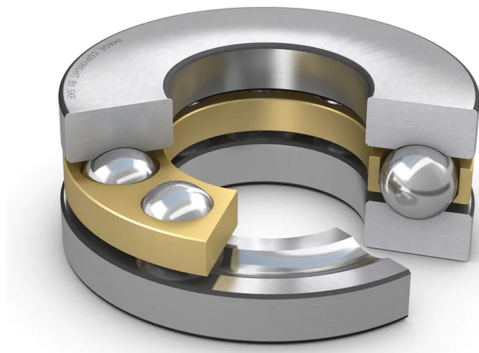
Bore diameter	260 mm
Height	45 mm
Outside diameter	320 mm

Performance

Basic dynamic load rating	238 kN
Basic static load rating	1 100 kN
Limiting speed	1 500 r/min
Reference speed	1 100 r/min

Properties

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



Technical Specification



Dimensions

d	260 mm	Bore diameter
D	320 mm	Outside diameter
H	45 mm	Height
d ₁	≈ 317 mm	Outside diameter shaft washer
D ₁	≈ 263 mm	Inner diameter housing washer
r _{1,2}	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 296 mm	Abutment diameter shaft
D _a	max. 284 mm	Abutment diameter housing
r _a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	238 kN
Basic static load rating	C ₀	1 100 kN
Fatigue load limit	P _u	24 kN
Reference speed		1 100 r/min
Limiting speed		1 500 r/min
Minimum load factor	A	6.3

51156 M

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

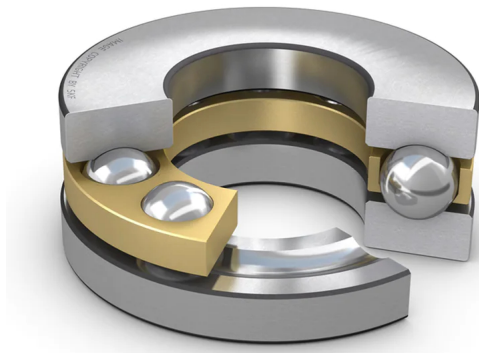
Bore diameter	280 mm
Height	53 mm
Outside diameter	350 mm

Performance

Basic dynamic load rating	319 kN
Basic static load rating	1 460 kN
Limiting speed	1 300 r/min
Reference speed	950 r/min

Properties

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



Technical Specification



Dimensions

d	280 mm	Bore diameter
D	350 mm	Outside diameter
H	53 mm	Height
d_1	≈ 347 mm	Outside diameter shaft washer
D_1	≈ 283 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 322 mm	Abutment diameter shaft
D_a	max. 308 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	319 kN
Basic static load rating	C_0	1 460 kN
Fatigue load limit	P_u	30.5 kN
Reference speed		950 r/min
Limiting speed		1 300 r/min
Minimum load factor	A	11

51160 M

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

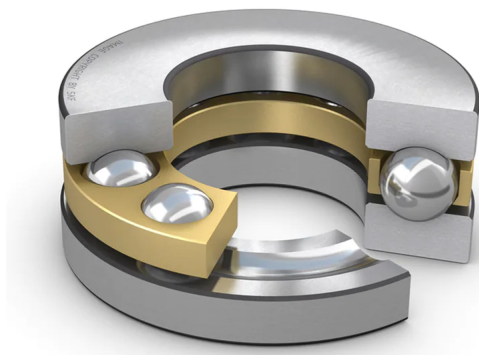
Bore diameter	300 mm
Height	62 mm
Outside diameter	380 mm

Performance

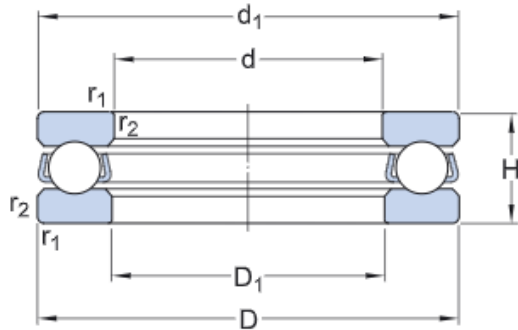
Basic dynamic load rating	364 kN
Basic static load rating	1 760 kN
Limiting speed	1 200 r/min
Reference speed	850 r/min

Properties

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

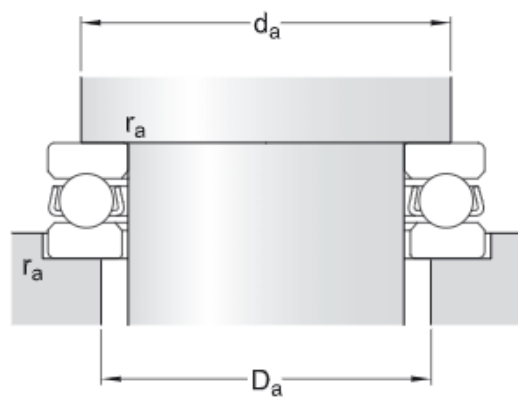


Technical Specification



Dimensions

d	300 mm	Bore diameter
D	380 mm	Outside diameter
H	62 mm	Height
d_1	≈ 376 mm	Outside diameter shaft washer
D_1	≈ 304 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 348 mm	Abutment diameter shaft
D_a	max. 332 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	364 kN
Basic static load rating	C_0	1 760 kN
Fatigue load limit	P_u	35.5 kN
Reference speed		850 r/min
Limiting speed		1 200 r/min
Minimum load factor	A	16

51164 M

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	320 mm
Height	63 mm
Outside diameter	400 mm

Performance

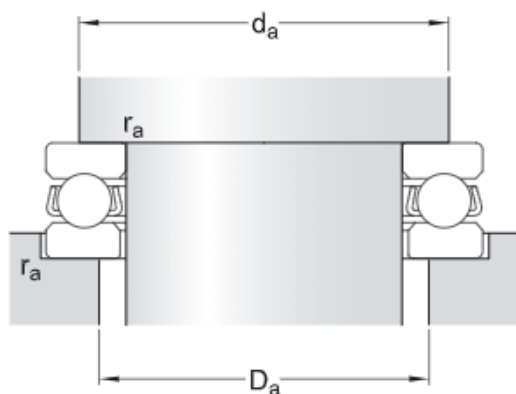
Basic dynamic load rating	371 kN
Basic static load rating	1 860 kN
Limiting speed	1 100 r/min
Reference speed	800 r/min

Properties

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



Technical Specification



Dimensions

d	320 mm	Bore diameter
D	400 mm	Outside diameter
H	63 mm	Height
d_1	≈ 396 mm	Outside diameter shaft washer
D_1	≈ 324 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer

Abutment dimensions

d_a min. 368 mm	Abutment diameter shaft
D_a max. 352 mm	Abutment diameter housing
r_a max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	371 kN
Basic static load rating	C ₀	1 860 kN
Fatigue load limit	P _u	36.5 kN
Reference speed		800 r/min
Limiting speed		1 100 r/min
Minimum load factor	A	18

51168 M

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

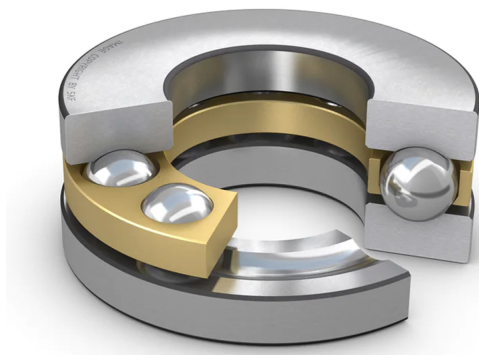
Bore diameter	340 mm
Height	64 mm
Outside diameter	420 mm

Performance

Basic dynamic load rating	377 kN
Basic static load rating	1 960 kN
Limiting speed	1 100 r/min
Reference speed	800 r/min

Properties

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



Technical Specification



Dimensions

d	340 mm	Bore diameter
D	420 mm	Outside diameter
H	64 mm	Height
d_1	≈ 416 mm	Outside diameter shaft washer
D_1	≈ 344 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 388 mm	Abutment diameter shaft
D_a	max. 372 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	377 kN
Basic static load rating	C_0	1 960 kN
Fatigue load limit	P_u	37.5 kN
Reference speed		800 r/min
Limiting speed		1 100 r/min
Minimum load factor	A	20

51172 F

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	360 mm
Height	65 mm
Outside diameter	440 mm

Performance

Basic dynamic load rating	390 kN
Basic static load rating	2 080 kN
Limiting speed	1 100 r/min
Reference speed	750 r/min

Properties

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



Technical Specification



Dimensions

d	360 mm	Bore diameter
D	440 mm	Outside diameter
H	65 mm	Height
d ₁	≈ 436 mm	Outside diameter shaft washer
D ₁	≈ 364 mm	Inner diameter housing washer
r _{1,2}	min. 2 mm	Chamfer dimension washer



Abutment dimensions

da	min. 408 mm	Abutment diameter shaft
Da	max. 392 mm	Abutment diameter housing
ra	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	390 kN
Basic static load rating	C ₀	2 080 kN
Fatigue load limit	P _u	38 kN
Reference speed		750 r/min
Limiting speed		1 100 r/min
Minimum load factor	A	22

51176 F

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	380 mm
Height	65 mm
Outside diameter	460 mm

Performance

Basic dynamic load rating	397 kN
Basic static load rating	2 200 kN
Limiting speed	1 000 r/min
Reference speed	750 r/min

Properties

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



Technical Specification



Dimensions

d	380 mm	Bore diameter
D	460 mm	Outside diameter
H	65 mm	Height
d ₁	≈ 456 mm	Outside diameter shaft washer
D ₁	≈ 384 mm	Inner diameter housing washer
r _{1,2}	min. 2 mm	Chamfer dimension washer



Abutment dimensions

da	min. 428 mm	Abutment diameter shaft
Da	max. 412 mm	Abutment diameter housing
ra	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	397 kN
Basic static load rating	C ₀	2 200 kN
Fatigue load limit	P _u	40 kN
Reference speed		750 r/min
Limiting speed		1 000 r/min
Minimum load factor	A	25

51180 F

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	400 mm
Height	65 mm
Outside diameter	480 mm

Performance

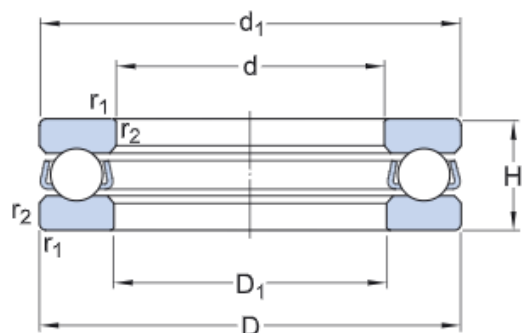
Basic dynamic load rating	403 kN
Basic static load rating	2 280 kN
Limiting speed	1 000 r/min
Reference speed	700 r/min

Properties

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



Technical Specification



Dimensions

d	400 mm	Bore diameter
D	480 mm	Outside diameter
H	65 mm	Height
d_1	≈ 476 mm	Outside diameter shaft washer
D_1	≈ 404 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 448 mm	Abutment diameter shaft
D_a	max. 432 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	403 kN
Basic static load rating	C_0	2 280 kN
Fatigue load limit	P_u	40.5 kN
Reference speed		700 r/min
Limiting speed		1 000 r/min
Minimum load factor	A	27

51184 F

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	420 mm
Height	65 mm
Outside diameter	500 mm

Performance

Basic dynamic load rating	410 kN
Basic static load rating	2 400 kN
Limiting speed	1 000 r/min
Reference speed	700 r/min

Properties

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



Technical Specification



Dimensions

d	420 mm	Bore diameter
D	500 mm	Outside diameter
H	65 mm	Height
d_1	≈ 496 mm	Outside diameter shaft washer
D_1	≈ 424 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 468 mm	Abutment diameter shaft
D_a	max. 452 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	410 kN
Basic static load rating	C_0	2 400 kN
Fatigue load limit	P_u	41.5 kN
Reference speed		700 r/min
Limiting speed		1 000 r/min
Minimum load factor	A	30

51188 F

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	440 mm
Height	80 mm
Outside diameter	540 mm

Performance

Basic dynamic load rating	527 kN
Basic static load rating	3 250 kN
Limiting speed	850 r/min
Reference speed	600 r/min

Properties

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



Technical Specification



Dimensions

d	440 mm	Bore diameter
D	540 mm	Outside diameter
H	80 mm	Height
d ₁	≈ 536 mm	Outside diameter shaft washer
D ₁	≈ 444 mm	Inner diameter housing washer
r _{1,2}	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

da	min. 499 mm	Abutment diameter shaft
Da	max. 481 mm	Abutment diameter housing
ra	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	527 kN
Basic static load rating	C ₀	3 250 kN
Fatigue load limit	P _u	55 kN
Reference speed		600 r/min
Limiting speed		850 r/min
Minimum load factor	A	55

51192 F

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	460 mm
Height	80 mm
Outside diameter	560 mm

Performance

Basic dynamic load rating	527 kN
Basic static load rating	3 250 kN
Limiting speed	800 r/min
Reference speed	600 r/min

Properties

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

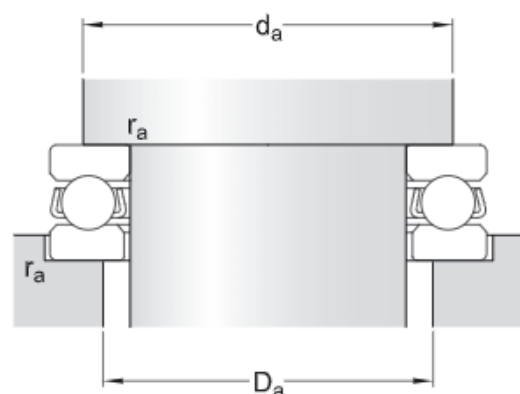


Technical Specification



Dimensions

d	460 mm	Bore diameter
D	560 mm	Outside diameter
H	80 mm	Height
d_1	≈ 556 mm	Outside diameter shaft washer
D_1	≈ 464 mm	Inner diameter housing washer
$r_{1,2}$	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 519 mm	Abutment diameter shaft
D_a	max. 501 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	527 kN
Basic static load rating	C_0	3 250 kN
Fatigue load limit	P_u	54 kN
Reference speed		600 r/min
Limiting speed		800 r/min
Minimum load factor	A	55

51196 F

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	480 mm
Height	80 mm
Outside diameter	580 mm

Performance

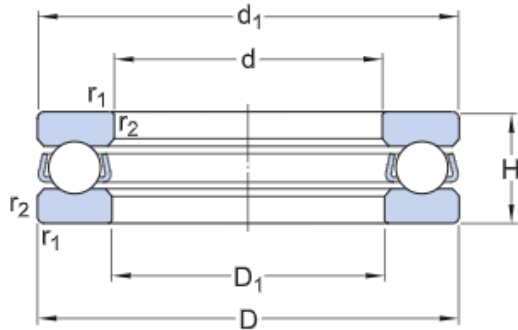
Basic dynamic load rating	540 kN
Basic static load rating	3 550 kN
Limiting speed	800 r/min
Reference speed	560 r/min

Properties

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

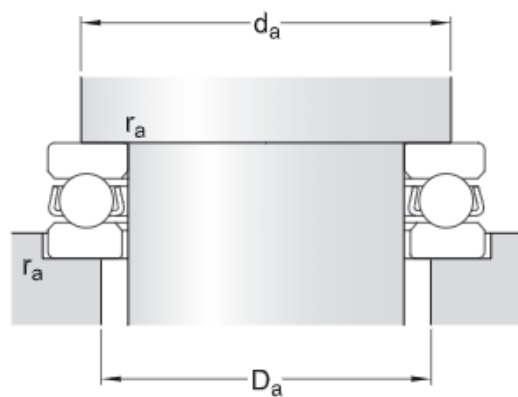


Technical Specification



Dimensions

d	480 mm	Bore diameter
D	580 mm	Outside diameter
H	80 mm	Height
d ₁	≈ 576 mm	Outside diameter shaft washer
D ₁	≈ 484 mm	Inner diameter housing washer
r _{1,2}	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 539 mm	Abutment diameter shaft
D _a	max. 521 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	540 kN
Basic static load rating	C ₀	3 550 kN
Fatigue load limit	P _u	56 kN
Reference speed		560 r/min
Limiting speed		800 r/min
Minimum load factor	A	66

51200

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	10 mm
Height	11 mm
Outside diameter	26 mm

Performance

Basic dynamic load rating	12.7 kN
Basic static load rating	18.6 kN
Limiting speed	11 000 r/min
Reference speed	8 000 r/min

Properties

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



Technical Specification



Dimensions

d	10 mm	Bore diameter
D	26 mm	Outside diameter
H	11 mm	Height
d ₁	≈ 26 mm	Outside diameter shaft washer
D ₁	≈ 12 mm	Inner diameter housing washer
r _{1,2}	min. 0.6 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 20 mm	Abutment diameter shaft
D _a	max. 16 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	12.7 kN
Basic static load rating	C ₀	18.6 kN
Fatigue load limit	P _u	0.695 kN
Reference speed		8 000 r/min
Limiting speed		11 000 r/min
Minimum load factor	A	0.0018

51201

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	12 mm
Height	11 mm
Outside diameter	28 mm

Performance

Basic dynamic load rating	13.3 kN
Basic static load rating	20.8 kN
Limiting speed	11 000 r/min
Reference speed	8 000 r/min

Properties

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

Technical Specification



Dimensions

d	12 mm	Bore diameter
D	28 mm	Outside diameter
H	11 mm	Height
d ₁	≈ 28 mm	Outside diameter shaft washer
D ₁	≈ 14 mm	Inner diameter housing washer
r _{1,2}	min. 0.6 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 22 mm	Abutment diameter shaft
D _a	max. 18 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	13.3 kN
Basic static load rating	C ₀	20.8 kN
Fatigue load limit	P _u	0.765 kN
Reference speed		8 000 r/min
Limiting speed		11 000 r/min
Minimum load factor	A	0.0022

51202

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	15 mm
Height	12 mm
Outside diameter	32 mm

Performance

Basic dynamic load rating	15.9 kN
Basic static load rating	25 kN
Limiting speed	10 000 r/min
Reference speed	7 000 r/min

Properties

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



Technical Specification



Dimensions

d	15 mm	Bore diameter
D	32 mm	Outside diameter
H	12 mm	Height
d ₁	≈ 32 mm	Outside diameter shaft washer
D ₁	≈ 17 mm	Inner diameter housing washer
r _{1,2}	min. 0.6 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 25 mm	Abutment diameter shaft
D _a	max. 22 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	15.9 kN
Basic static load rating	C ₀	25 kN
Fatigue load limit	P _u	0.915 kN
Reference speed		7 000 r/min
Limiting speed		10 000 r/min
Minimum load factor	A	0.0038

51203

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	17 mm
Height	12 mm
Outside diameter	35 mm

Performance

Basic dynamic load rating	16.3 kN
Basic static load rating	27 kN
Limiting speed	9 500 r/min
Reference speed	6 700 r/min

Properties

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



Technical Specification



Dimensions

d	17 mm	Bore diameter
D	35 mm	Outside diameter
H	12 mm	Height
d ₁	≈ 35 mm	Outside diameter shaft washer
D ₁	≈ 19 mm	Inner diameter housing washer
r _{1,2}	min. 0.6 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 28 mm	Abutment diameter shaft
D _a	max. 24 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	16.3 kN
Basic static load rating	C ₀	27 kN
Fatigue load limit	P _u	1 kN
Reference speed		6 700 r/min
Limiting speed		9 500 r/min
Minimum load factor	A	0.0047

51204

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	20 mm
Height	14 mm
Outside diameter	40 mm

Performance

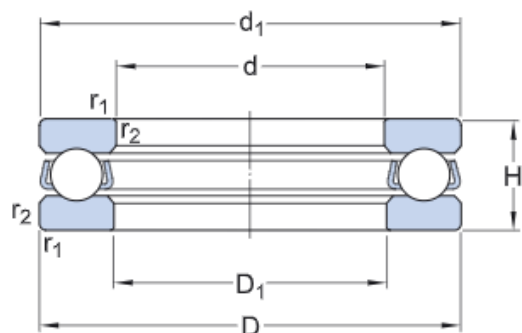
Basic dynamic load rating	21.2 kN
Basic static load rating	37.5 kN
Limiting speed	8 000 r/min
Reference speed	6 000 r/min

Properties

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



Technical Specification



Dimensions

d	20 mm	Bore diameter
D	40 mm	Outside diameter
H	14 mm	Height
d ₁	≈ 40 mm	Outside diameter shaft washer
D ₁	≈ 22 mm	Inner diameter housing washer
r _{1,2}	min. 0.6 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 32 mm	Abutment diameter shaft
D _a	max. 28 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	21.2 kN
Basic static load rating	C ₀	37.5 kN
Fatigue load limit	P _u	1.4 kN
Reference speed		6 000 r/min
Limiting speed		8 000 r/min
Minimum load factor	A	0.0085

51205

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	25 mm
Height	15 mm
Outside diameter	47 mm

Performance

Basic dynamic load rating	26.5 kN
Basic static load rating	50 kN
Limiting speed	7 500 r/min
Reference speed	5 300 r/min

Properties

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

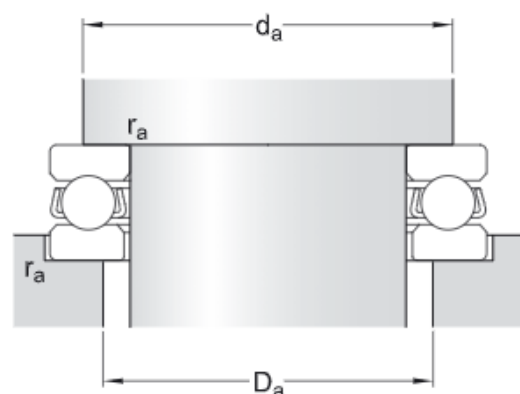


Technical Specification



Dimensions

d	25 mm	Bore diameter
D	47 mm	Outside diameter
H	15 mm	Height
d ₁	≈ 47 mm	Outside diameter shaft washer
D ₁	≈ 27 mm	Inner diameter housing washer
r _{1,2}	min. 0.6 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 38 mm	Abutment diameter shaft
D _a	max. 34 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	26.5 kN
Basic static load rating	C ₀	50 kN
Fatigue load limit	P _u	1.86 kN
Reference speed		5 300 r/min
Limiting speed		7 500 r/min
Minimum load factor	A	0.015

51206

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	30 mm
Height	16 mm
Outside diameter	52 mm

Performance

Basic dynamic load rating	25.1 kN
Basic static load rating	51 kN
Limiting speed	6 700 r/min
Reference speed	4 800 r/min

Properties

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



Technical Specification



Dimensions

d	30 mm	Bore diameter
D	52 mm	Outside diameter
H	16 mm	Height
d ₁	≈ 52 mm	Outside diameter shaft washer
D ₁	≈ 32 mm	Inner diameter housing washer
r _{1,2}	min. 0.6 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 43 mm	Abutment diameter shaft
D _a	max. 39 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	25.1 kN
Basic static load rating	C ₀	51 kN
Fatigue load limit	P _u	1.86 kN
Reference speed		4 800 r/min
Limiting speed		6 700 r/min
Minimum load factor	A	0.013

51207

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
Height	18 mm
Outside diameter	62 mm

Performance

Basic dynamic load rating	35.1 kN
Basic static load rating	73.5 kN
Limiting speed	5 600 r/min
Reference speed	4 000 r/min

Properties

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



Technical Specification



Dimensions

d	35 mm	Bore diameter
D	62 mm	Outside diameter
H	18 mm	Height
d ₁	≈ 62 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. 51 mm	Abutment diameter shaft
D _a	max. 46 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	35.1 kN
Basic static load rating	C ₀	73.5 kN
Fatigue load limit	P _u	2.7 kN
Reference speed		4 000 r/min
Limiting speed		5 600 r/min
Minimum load factor	A	0.028

51208

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	40 mm
Height	19 mm
Outside diameter	68 mm

Performance

Basic dynamic load rating	44.2 kN
Basic static load rating	96.5 kN
Limiting speed	5 300 r/min
Reference speed	3 800 r/min

Properties

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



Technical Specification



Dimensions

d	40 mm	Bore diameter
D	68 mm	Outside diameter
H	19 mm	Height
d ₁	≈ 68 mm	Outside diameter shaft washer
D ₁	≈ 42 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 57 mm	Abutment diameter shaft
D _a	max. 51 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	44.2 kN
Basic static load rating	C ₀	96.5 kN
Fatigue load limit	P _u	3.6 kN
Reference speed		3 800 r/min
Limiting speed		5 300 r/min
Minimum load factor	A	0.058

51209

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	45 mm
Height	20 mm
Outside diameter	73 mm

Performance

Basic dynamic load rating	39 kN
Basic static load rating	86.5 kN
Limiting speed	5 000 r/min
Reference speed	3 600 r/min

Properties

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

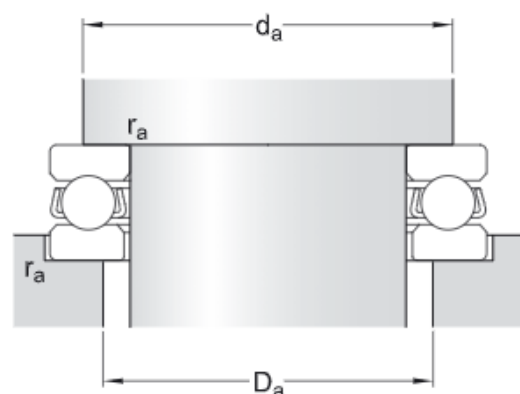


Technical Specification



Dimensions

d	45 mm	Bore diameter
D	73 mm	Outside diameter
H	20 mm	Height
d ₁	≈ 73 mm	Outside diameter shaft washer
D ₁	≈ 47 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 62 mm	Abutment diameter shaft
D _a	max. 56 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	39 kN
Basic static load rating	C ₀	86.5 kN
Fatigue load limit	P _u	3.2 kN
Reference speed		3 600 r/min
Limiting speed		5 000 r/min
Minimum load factor	A	0.038

51210

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	50 mm
Height	22 mm
Outside diameter	78 mm

Performance

Basic dynamic load rating	49.4 kN
Basic static load rating	116 kN
Limiting speed	4 500 r/min
Reference speed	3 400 r/min

Properties

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



Technical Specification



Dimensions

d	50 mm	Bore diameter
D	78 mm	Outside diameter
H	22 mm	Height
d ₁	≈ 78 mm	Outside diameter shaft washer
D ₁	≈ 52 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 67 mm	Abutment diameter shaft
D _a	max. 61 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	116 kN
Fatigue load limit	P _u	4.3 kN
Reference speed		3 400 r/min
Limiting speed		4 500 r/min
Minimum load factor	A	0.069

51211

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	55 mm
Height	25 mm
Outside diameter	90 mm

Performance

Basic dynamic load rating	58.5 kN
Basic static load rating	134 kN
Limiting speed	4 000 r/min
Reference speed	2 800 r/min

Properties

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



Technical Specification



Dimensions

d	55 mm	Bore diameter
D	90 mm	Outside diameter
H	25 mm	Height
d ₁	≈ 90 mm	Outside diameter shaft washer
D ₁	≈ 57 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

da	min. 76 mm	Abutment diameter shaft
Da	max. 69 mm	Abutment diameter housing
ra	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	C ₀	134 kN
Fatigue load limit	P _u	4.9 kN
Reference speed		2 800 r/min
Limiting speed		4 000 r/min
Minimum load factor	A	0.11

51212

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	60 mm
Height	26 mm
Outside diameter	95 mm

Performance

Basic dynamic load rating	59.2 kN
Basic static load rating	140 kN
Limiting speed	3 800 r/min
Reference speed	2 800 r/min

Properties

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



Technical Specification



Dimensions

d	60 mm	Bore diameter
D	95 mm	Outside diameter
H	26 mm	Height
d ₁	≈ 95 mm	Outside diameter shaft washer
D ₁	≈ 62 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 81 mm	Abutment diameter shaft
D _a	max. 74 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	59.2 kN
Basic static load rating	C ₀	140 kN
Fatigue load limit	P _u	5.1 kN
Reference speed		2 800 r/min
Limiting speed		3 800 r/min
Minimum load factor	A	0.12

51213

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	65 mm
Height	27 mm
Outside diameter	100 mm

Performance

Basic dynamic load rating	60.5 kN
Basic static load rating	150 kN
Limiting speed	3 600 r/min
Reference speed	2 600 r/min

Properties

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



Technical Specification



Dimensions

d	65 mm	Bore diameter
D	100 mm	Outside diameter
H	27 mm	Height
d_1	≈ 100 mm	Outside diameter shaft washer
D_1	≈ 67 mm	Inner diameter housing washer
$r_{1,2}$	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 86 mm	Abutment diameter shaft
D_a	max. 79 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	60.5 kN
Basic static load rating	C_0	150 kN
Fatigue load limit	P_u	5.5 kN
Reference speed		2 600 r/min
Limiting speed		3 600 r/min
Minimum load factor	A	0.14

51214

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	70 mm
Height	27 mm
Outside diameter	105 mm

Performance

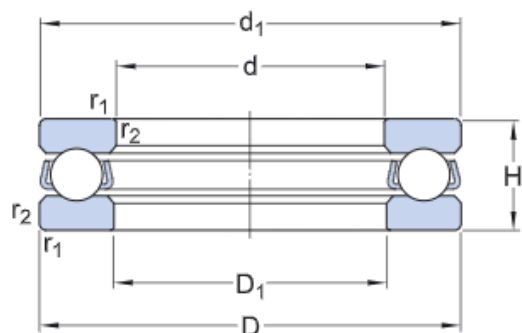
Basic dynamic load rating	62.4 kN
Basic static load rating	160 kN
Limiting speed	3 600 r/min
Reference speed	2 600 r/min

Properties

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



Technical Specification



Dimensions

d	70 mm	Bore diameter
D	105 mm	Outside diameter
H	27 mm	Height
d_1	≈ 105 mm	Outside diameter shaft washer
D_1	≈ 72 mm	Inner diameter housing washer
$r_{1,2}$	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 91 mm	Abutment diameter shaft
D_a	max. 84 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	62.4 kN
Basic static load rating	C_0	160 kN
Fatigue load limit	P_u	5.85 kN
Reference speed		2 600 r/min
Limiting speed		3 600 r/min
Minimum load factor	A	0.16

51215

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	75 mm
Height	27 mm
Outside diameter	110 mm

Performance

Basic dynamic load rating	63.7 kN
Basic static load rating	170 kN
Limiting speed	3 400 r/min
Reference speed	2 400 r/min

Properties

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

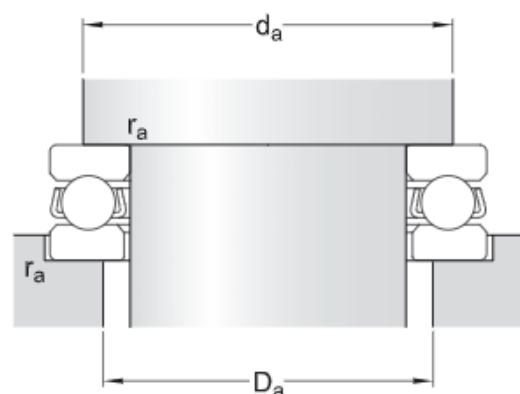


Technical Specification



Dimensions

d	75 mm	Bore diameter
D	110 mm	Outside diameter
H	27 mm	Height
d ₁	≈ 110 mm	Outside diameter shaft washer
D ₁	≈ 77 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 96 mm	Abutment diameter shaft
D _a	max. 89 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	63.7 kN
Basic static load rating	C ₀	170 kN
Fatigue load limit	P _u	6.2 kN
Reference speed		2 400 r/min
Limiting speed		3 400 r/min
Minimum load factor	A	0.17

51216

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	80 mm
Height	28 mm
Outside diameter	115 mm

Performance

Basic dynamic load rating	76.1 kN
Basic static load rating	208 kN
Limiting speed	3 400 r/min
Reference speed	2 400 r/min

Properties

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



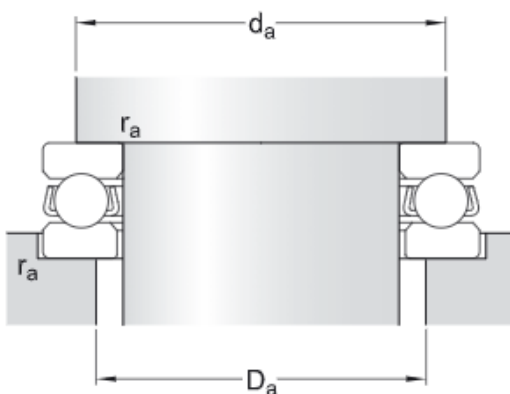
Technical Specification

Dimensions

d	80 mm	Bore diameter
D	115 mm	Outside diameter
H	28 mm	Height
d_1	≈ 115 mm	Outside diameter shaft washer
D_1	≈ 82 mm	Inner diameter housing washer
$r_{1,2}$	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d_a	min. 101 mm	Abutment diameter shaft
D_a	max. 94 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	76.1 kN
Basic static load rating	C_0	208 kN
Fatigue load limit	P_u	7.65 kN
Reference speed		2 400 r/min
Limiting speed		3 400 r/min
Minimum load factor	A	0.22

51217

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	85 mm
Height	31 mm
Outside diameter	125 mm

Performance

Basic dynamic load rating	97.5 kN
Basic static load rating	275 kN
Limiting speed	3 000 r/min
Reference speed	2 200 r/min

Properties

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



Technical Specification



Dimensions

d	85 mm	Bore diameter
D	125 mm	Outside diameter
H	31 mm	Height
d ₁	≈ 125 mm	Outside diameter shaft washer
D ₁	≈ 88 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 109 mm	Abutment diameter shaft
D _a	max. 101 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	97.5 kN
Basic static load rating	C ₀	275 kN
Fatigue load limit	P _u	9.8 kN
Reference speed		2 200 r/min
Limiting speed		3 000 r/min
Minimum load factor	A	0.39

51218

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	90 mm
Height	35 mm
Outside diameter	135 mm

Performance

Basic dynamic load rating	112 kN
Basic static load rating	290 kN
Limiting speed	2 800 r/min
Reference speed	2 000 r/min

Properties

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



Technical Specification



Dimensions

d	90 mm	Bore diameter
D	135 mm	Outside diameter
H	35 mm	Height
d_1	≈ 135 mm	Outside diameter shaft washer
D_1	≈ 93 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 117 mm	Abutment diameter shaft
D_a	max. 108 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	290 kN
Fatigue load limit	P_u	10.4 kN
Reference speed		2 000 r/min
Limiting speed		2 800 r/min
Minimum load factor	A	0.55

51220

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	100 mm
Height	38 mm
Outside diameter	150 mm

Performance

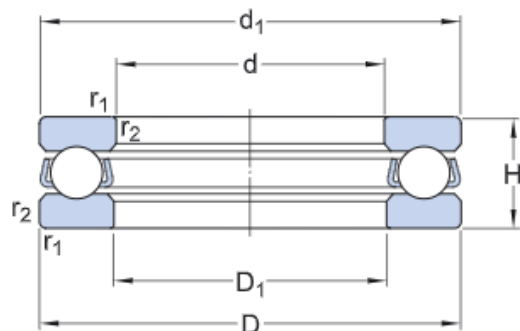
Basic dynamic load rating	119 kN
Basic static load rating	325 kN
Limiting speed	2 400 r/min
Reference speed	1 800 r/min

Properties

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



Technical Specification



Dimensions

d	100 mm	Bore diameter
D	150 mm	Outside diameter
H	38 mm	Height
d ₁	≈ 150 mm	Outside diameter shaft washer
D ₁	≈ 103 mm	Inner diameter housing washer
r _{1,2}	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 130 mm	Abutment diameter shaft
D _a	max. 120 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	119 kN
Basic static load rating	C ₀	325 kN
Fatigue load limit	P _u	10.8 kN
Reference speed		1 800 r/min
Limiting speed		2 400 r/min
Minimum load factor	A	0.62

51222

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	110 mm
Height	38 mm
Outside diameter	160 mm

Performance

Basic dynamic load rating	125 kN
Basic static load rating	365 kN
Limiting speed	2 400 r/min
Reference speed	1 700 r/min

Properties

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

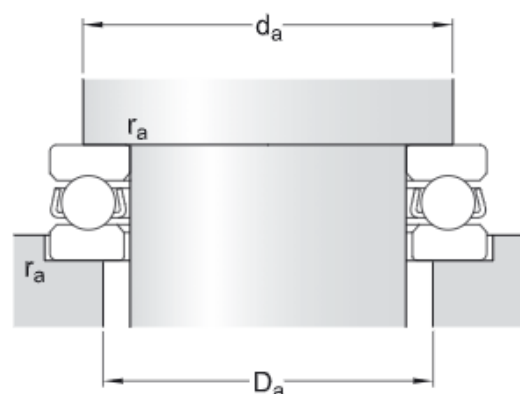


Technical Specification



Dimensions

d	110 mm	Bore diameter
D	160 mm	Outside diameter
H	38 mm	Height
d_1	≈ 160 mm	Outside diameter shaft washer
D_1	≈ 113 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 140 mm	Abutment diameter shaft
D_a	max. 130 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	125 kN
Basic static load rating	C_0	365 kN
Fatigue load limit	P_u	11.6 kN
Reference speed		1 700 r/min
Limiting speed		2 400 r/min
Minimum load factor	A	0.79

51224

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	120 mm
Height	39 mm
Outside diameter	170 mm

Performance

Basic dynamic load rating	127 kN
Basic static load rating	390 kN
Limiting speed	2 200 r/min
Reference speed	1 600 r/min

Properties

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



Technical Specification



Dimensions

d	120 mm	Bore diameter
D	170 mm	Outside diameter
H	39 mm	Height
d_1	≈ 170 mm	Outside diameter shaft washer
D_1	≈ 123 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 150 mm	Abutment diameter shaft
D_a	max. 140 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C_0	390 kN
Fatigue load limit	P_u	11.8 kN
Reference speed		1 600 r/min
Limiting speed		2 200 r/min
Minimum load factor	A	1

51226

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	130 mm
Height	45 mm
Outside diameter	190 mm

Performance

Basic dynamic load rating	186 kN
Basic static load rating	585 kN
Limiting speed	2 000 r/min
Reference speed	1 400 r/min

Properties

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

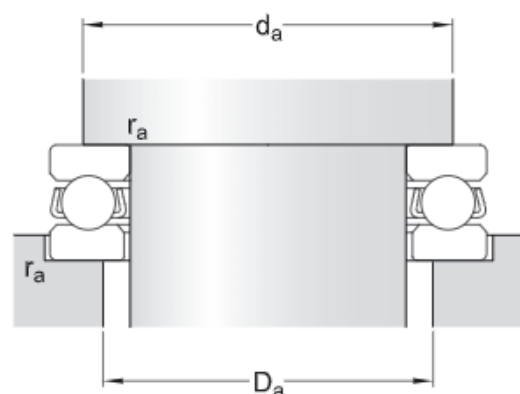


Technical Specification



Dimensions

d	130 mm	Bore diameter
D	190 mm	Outside diameter
H	45 mm	Height
d_1	≈ 187 mm	Outside diameter shaft washer
D_1	≈ 133 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 166 mm	Abutment diameter shaft
D_a	max. 154 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	186 kN
Basic static load rating	C_0	585 kN
Fatigue load limit	P_u	17 kN
Reference speed		1 400 r/min
Limiting speed		2 000 r/min
Minimum load factor	A	1.8

51228

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	140 mm
Height	46 mm
Outside diameter	200 mm

Performance

Basic dynamic load rating	208 kN
Basic static load rating	630 kN
Limiting speed	1 900 r/min
Reference speed	1 400 r/min

Properties

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



Technical Specification



Dimensions

d	140 mm	Bore diameter
D	200 mm	Outside diameter
H	46 mm	Height
d_1	≈ 197 mm	Outside diameter shaft washer
D_1	≈ 143 mm	Inner diameter housing washer
$r_{1,2}$	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 176 mm	Abutment diameter shaft
D_a	max. 164 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	208 kN
Basic static load rating	C_0	630 kN
Fatigue load limit	P_u	18 kN
Reference speed		1 400 r/min
Limiting speed		1 900 r/min
Minimum load factor	A	2

51230 M

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

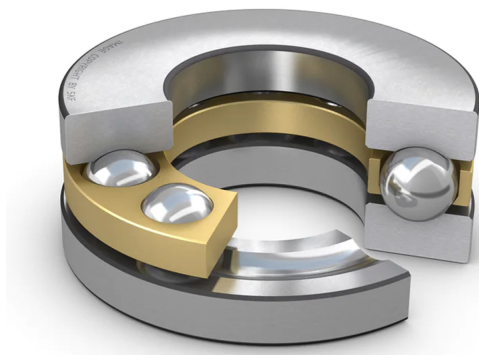
Bore diameter	150 mm
Height	50 mm
Outside diameter	215 mm

Performance

Basic dynamic load rating	247 kN
Basic static load rating	800 kN
Limiting speed	1 800 r/min
Reference speed	1 300 r/min

Properties

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



Technical Specification



Dimensions

d	150 mm	Bore diameter
D	215 mm	Outside diameter
H	50 mm	Height
d_1	≈ 212 mm	Outside diameter shaft washer
D_1	≈ 153 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 189 mm	Abutment diameter shaft
D_a	max. 176 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	247 kN
Basic static load rating	C_0	800 kN
Fatigue load limit	P_u	21.6 kN
Reference speed		1 300 r/min
Limiting speed		1 800 r/min
Minimum load factor	A	3.3

51232 M

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	160 mm
Height	51 mm
Outside diameter	225 mm

Performance

Basic dynamic load rating	247 kN
Basic static load rating	800 kN
Limiting speed	1 700 r/min
Reference speed	1 200 r/min

Properties

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



Technical Specification



Dimensions

d	160 mm	Bore diameter
D	225 mm	Outside diameter
H	51 mm	Height
d_1	≈ 222 mm	Outside diameter shaft washer
D_1	≈ 163 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 199 mm	Abutment diameter shaft
D_a	max. 186 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	247 kN
Basic static load rating	C_0	800 kN
Fatigue load limit	P_u	21.2 kN
Reference speed		1 200 r/min
Limiting speed		1 700 r/min
Minimum load factor	A	3.8

51234 M

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

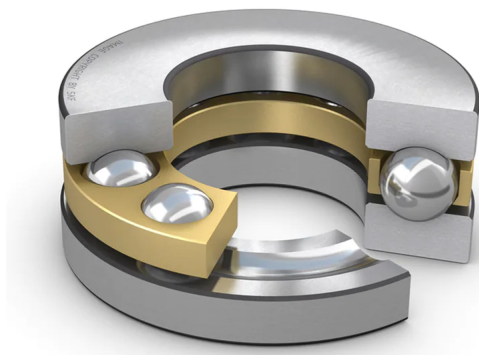
Bore diameter	170 mm
Height	55 mm
Outside diameter	240 mm

Performance

Basic dynamic load rating	281 kN
Basic static load rating	980 kN
Limiting speed	1 600 r/min
Reference speed	1 100 r/min

Properties

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



Technical Specification



Dimensions

d	170 mm	Bore diameter
D	240 mm	Outside diameter
H	55 mm	Height
d ₁	≈ 237 mm	Outside diameter shaft washer
D ₁	≈ 173 mm	Inner diameter housing washer
r _{1,2}	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 212 mm	Abutment diameter shaft
D _a	max. 198 mm	Abutment diameter housing
r _a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	281 kN
Basic static load rating	C ₀	980 kN
Fatigue load limit	P _u	25 kN
Reference speed		1 100 r/min
Limiting speed		1 600 r/min
Minimum load factor	A	5.4

51236 M

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

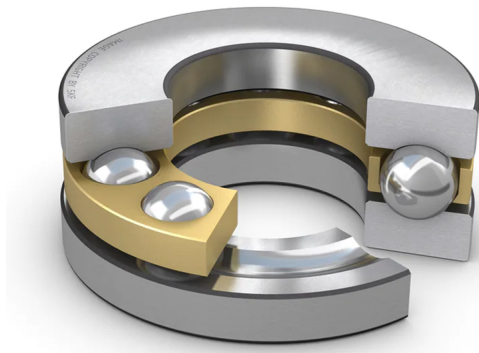
Bore diameter	180 mm
Height	56 mm
Outside diameter	250 mm

Performance

Basic dynamic load rating	296 kN
Basic static load rating	1 080 kN
Limiting speed	1 500 r/min
Reference speed	1 100 r/min

Properties

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

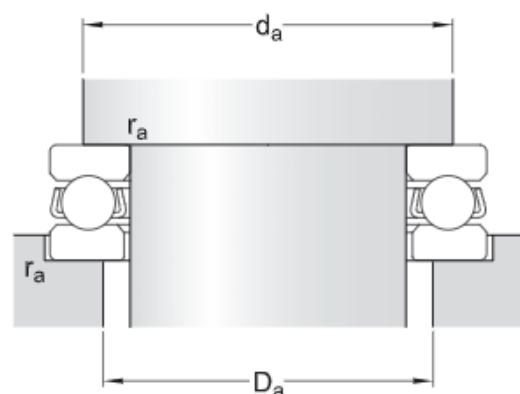


Technical Specification



Dimensions

d	180 mm	Bore diameter
D	250 mm	Outside diameter
H	56 mm	Height
d ₁	≈ 245 mm	Outside diameter shaft washer
D ₁	≈ 183 mm	Inner diameter housing washer
r _{1,2}	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 222 mm	Abutment diameter shaft
D _a	max. 208 mm	Abutment diameter housing
r _a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	296 kN
Basic static load rating	C ₀	1 080 kN
Fatigue load limit	P _u	27 kN
Reference speed		1 100 r/min
Limiting speed		1 500 r/min
Minimum load factor	A	6.1

51238 M

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

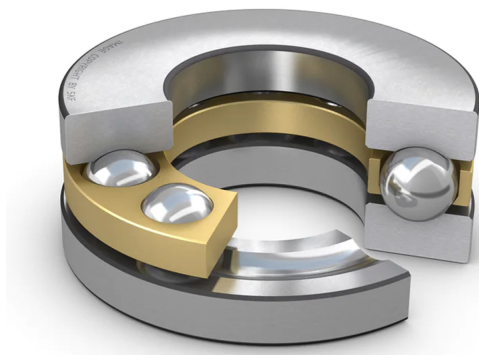
Bore diameter	190 mm
Height	62 mm
Outside diameter	270 mm

Performance

Basic dynamic load rating	338 kN
Basic static load rating	1 250 kN
Limiting speed	1 400 r/min
Reference speed	1 000 r/min

Properties

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



Technical Specification



Dimensions

d	190 mm	Bore diameter
D	270 mm	Outside diameter
H	62 mm	Height
d_1	≈ 265 mm	Outside diameter shaft washer
D_1	≈ 194 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 238 mm	Abutment diameter shaft
D_a	max. 222 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	338 kN
Basic static load rating	C_0	1 250 kN
Fatigue load limit	P_u	30 kN
Reference speed		1 000 r/min
Limiting speed		1 400 r/min
Minimum load factor	A	8.4

51240 M

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	200 mm
Height	62 mm
Outside diameter	280 mm

Performance

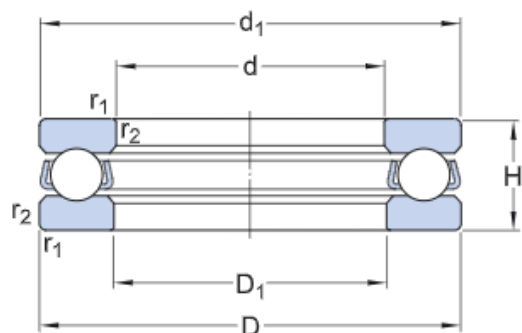
Basic dynamic load rating	332 kN
Basic static load rating	1 250 kN
Limiting speed	1 400 r/min
Reference speed	1 000 r/min

Properties

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



Technical Specification



Dimensions

d	200 mm	Bore diameter
D	280 mm	Outside diameter
H	62 mm	Height
d ₁	≈ 275 mm	Outside diameter shaft washer
D ₁	≈ 204 mm	Inner diameter housing washer
r _{1,2}	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 248 mm	Abutment diameter shaft
D _a	max. 232 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	332 kN
Basic static load rating	C ₀	1 250 kN
Fatigue load limit	P _u	30 kN
Reference speed		1 000 r/min
Limiting speed		1 400 r/min
Minimum load factor	A	9.1

51244 M

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	220 mm
Height	63 mm
Outside diameter	300 mm

Performance

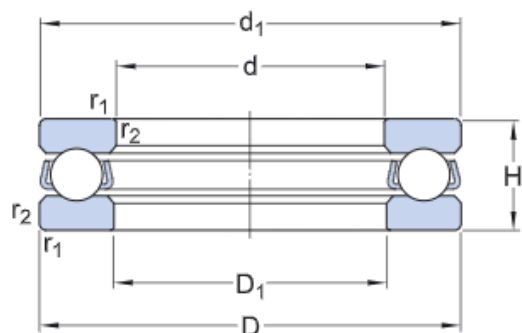
Basic dynamic load rating	358 kN
Basic static load rating	1 460 kN
Limiting speed	1 300 r/min
Reference speed	950 r/min

Properties

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



Technical Specification



Dimensions

d	220 mm	Bore diameter
D	300 mm	Outside diameter
H	63 mm	Height
d_1	≈ 295 mm	Outside diameter shaft washer
D_1	≈ 224 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 268 mm	Abutment diameter shaft
D_a	max. 252 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	358 kN
Basic static load rating	C_0	1 460 kN
Fatigue load limit	P_u	33.5 kN
Reference speed		950 r/min
Limiting speed		1 300 r/min
Minimum load factor	A	11

51248 M

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	240 mm
Height	78 mm
Outside diameter	340 mm

Performance

Basic dynamic load rating	449 kN
Basic static load rating	1 960 kN
Limiting speed	1 100 r/min
Reference speed	800 r/min

Properties

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



Technical Specification



Dimensions

d	240 mm	Bore diameter
D	340 mm	Outside diameter
H	78 mm	Height
d ₁	≈ 335 mm	Outside diameter shaft washer
D ₁	≈ 244 mm	Inner diameter housing washer
r _{1,2}	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 299 mm	Abutment diameter shaft
D _a	max. 281 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	449 kN
Basic static load rating	C ₀	1 960 kN
Fatigue load limit	P _u	42.5 kN
Reference speed		800 r/min
Limiting speed		1 100 r/min
Minimum load factor	A	21

51252 M

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

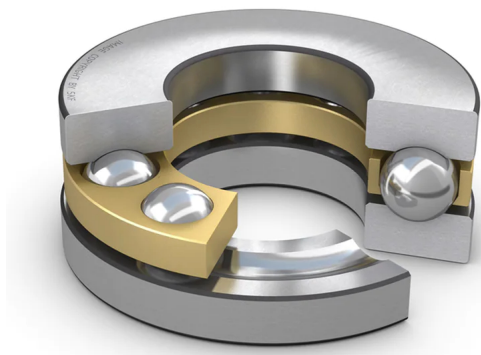
Bore diameter	260 mm
Height	79 mm
Outside diameter	360 mm

Performance

Basic dynamic load rating	488 kN
Basic static load rating	2 240 kN
Limiting speed	1 100 r/min
Reference speed	750 r/min

Properties

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



Technical Specification



Dimensions

d	260 mm	Bore diameter
D	360 mm	Outside diameter
H	79 mm	Height
d_1	≈ 355 mm	Outside diameter shaft washer
D_1	≈ 264 mm	Inner diameter housing washer
$r_{1,2}$	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 319 mm	Abutment diameter shaft
D_a	max. 301 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	488 kN
Basic static load rating	C_0	2 240 kN
Fatigue load limit	P_u	46.5 kN
Reference speed		750 r/min
Limiting speed		1 100 r/min
Minimum load factor	A	24

51256 M

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	280 mm
Height	80 mm
Outside diameter	380 mm

Performance

Basic dynamic load rating	488 kN
Basic static load rating	2 320 kN
Limiting speed	1 000 r/min
Reference speed	750 r/min

Properties

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

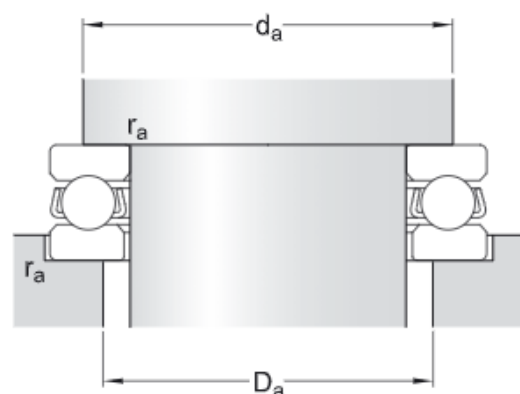


Technical Specification



Dimensions

d	280 mm	Bore diameter
D	380 mm	Outside diameter
H	80 mm	Height
d ₁	≈ 375 mm	Outside diameter shaft washer
D ₁	≈ 284 mm	Inner diameter housing washer
r _{1,2}	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

da	min. 339 mm	Abutment diameter shaft
Da	max. 321 mm	Abutment diameter housing
ra	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	488 kN
Basic static load rating	C ₀	2 320 kN
Fatigue load limit	P _u	47.5 kN
Reference speed		750 r/min
Limiting speed		1 000 r/min
Minimum load factor	A	28

51260 M

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	300 mm
Height	95 mm
Outside diameter	420 mm

Performance

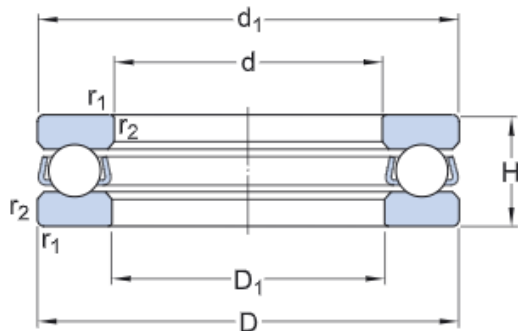
Basic dynamic load rating	585 kN
Basic static load rating	3 000 kN
Limiting speed	850 r/min
Reference speed	630 r/min

Properties

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

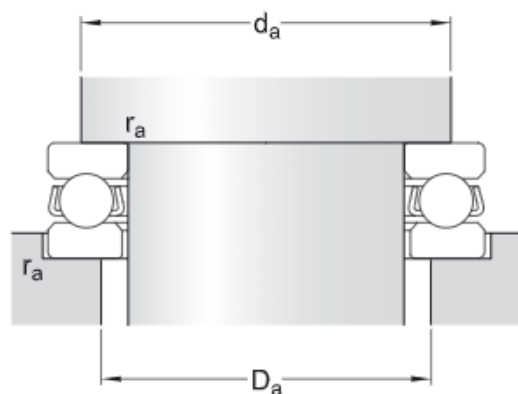


Technical Specification



Dimensions

d	300 mm	Bore diameter
D	420 mm	Outside diameter
H	95 mm	Height
d ₁	≈ 415 mm	Outside diameter shaft washer
D ₁	≈ 304 mm	Inner diameter housing washer
r _{1,2}	min. 3 mm	Chamfer dimension washer



Abutment dimensions

da	min. 371 mm	Abutment diameter shaft
Da	max. 349 mm	Abutment diameter housing
ra	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	585 kN
Basic static load rating	C ₀	3 000 kN
Fatigue load limit	P _u	57 kN
Reference speed		630 r/min
Limiting speed		850 r/min
Minimum load factor	A	47

51264 F

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	320 mm
Height	95 mm
Outside diameter	440 mm

Performance

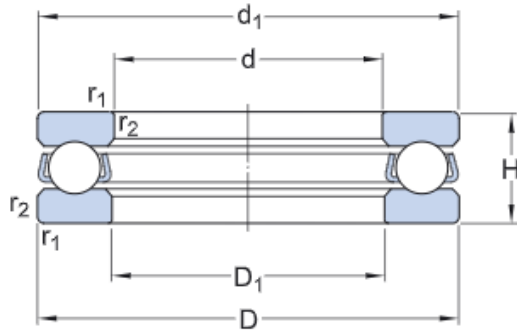
Basic dynamic load rating	572 kN
Basic static load rating	3 000 kN
Limiting speed	850 r/min
Reference speed	600 r/min

Properties

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

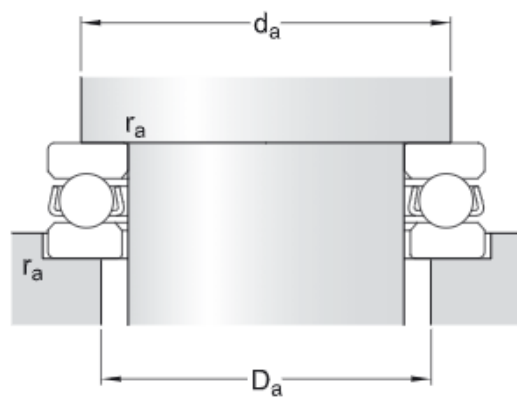


Technical Specification



Dimensions

d	320 mm	Bore diameter
D	440 mm	Outside diameter
H	95 mm	Height
d ₁	≈ 435 mm	Outside diameter shaft washer
D ₁	≈ 325 mm	Inner diameter housing washer
r _{1,2}	min. 3 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 391 mm	Abutment diameter shaft
D _a	max. 369 mm	Abutment diameter housing
r _a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	572 kN
Basic static load rating	C ₀	3 000 kN
Fatigue load limit	P _u	56 kN
Reference speed		600 r/min
Limiting speed		850 r/min
Minimum load factor	A	47

51264 M

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	320 mm
Height	95 mm
Outside diameter	440 mm

Performance

Basic dynamic load rating	572 kN
Basic static load rating	3 000 kN
Limiting speed	850 r/min
Reference speed	600 r/min

Properties

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



Technical Specification



Dimensions

d	320 mm	Bore diameter
D	440 mm	Outside diameter
H	95 mm	Height
d_1	≈ 435 mm	Outside diameter shaft washer
D_1	≈ 325 mm	Inner diameter housing washer
$r_{1,2}$	min. 3 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 391 mm	Abutment diameter shaft
D_a	max. 369 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	572 kN
Basic static load rating	C_0	3 000 kN
Fatigue load limit	P_u	56 kN
Reference speed		600 r/min
Limiting speed		850 r/min
Minimum load factor	A	47

51268 F

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	340 mm
Height	96 mm
Outside diameter	460 mm

Performance

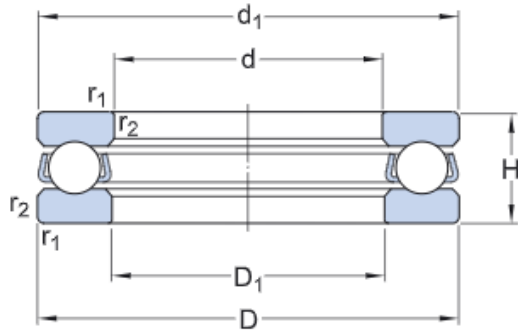
Basic dynamic load rating	605 kN
Basic static load rating	3 200 kN
Limiting speed	800 r/min
Reference speed	600 r/min

Properties

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

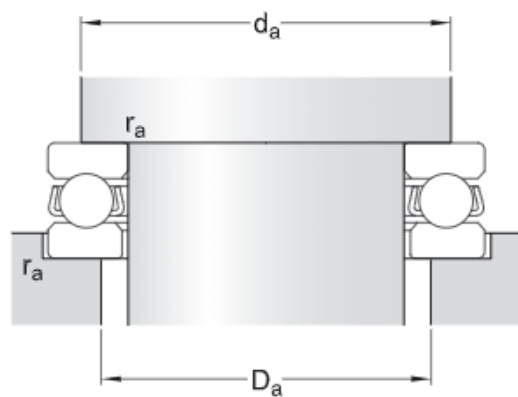


Technical Specification



Dimensions

d	340 mm	Bore diameter
D	460 mm	Outside diameter
H	96 mm	Height
d ₁	≈ 455 mm	Outside diameter shaft washer
D ₁	≈ 345 mm	Inner diameter housing washer
r _{1,2}	min. 3 mm	Chamfer dimension washer



Abutment dimensions

da	min. 411 mm	Abutment diameter shaft
Da	max. 389 mm	Abutment diameter housing
ra	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	605 kN
Basic static load rating	C ₀	3 200 kN
Fatigue load limit	P _u	58.5 kN
Reference speed		600 r/min
Limiting speed		800 r/min
Minimum load factor	A	53

51272 F

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	360 mm
Height	110 mm
Outside diameter	500 mm

Performance

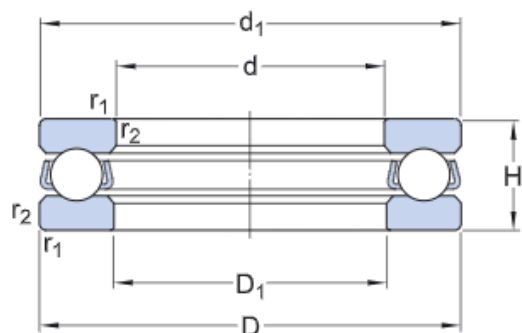
Basic dynamic load rating	741 kN
Basic static load rating	4 150 kN
Limiting speed	750 r/min
Reference speed	530 r/min

Properties

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



Technical Specification



Dimensions

d	360 mm	Bore diameter
D	500 mm	Outside diameter
H	110 mm	Height
d ₁	≈ 495 mm	Outside diameter shaft washer
D ₁	≈ 365 mm	Inner diameter housing washer
r _{1,2}	min. 4 mm	Chamfer dimension washer



Abutment dimensions

da	min. 443 mm	Abutment diameter shaft
Da	max. 417 mm	Abutment diameter housing
ra	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	741 kN
Basic static load rating	C ₀	4 150 kN
Fatigue load limit	P _u	73.5 kN
Reference speed		530 r/min
Limiting speed		750 r/min
Minimum load factor	A	90

51276 F

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	380 mm
Height	112 mm
Outside diameter	520 mm

Performance

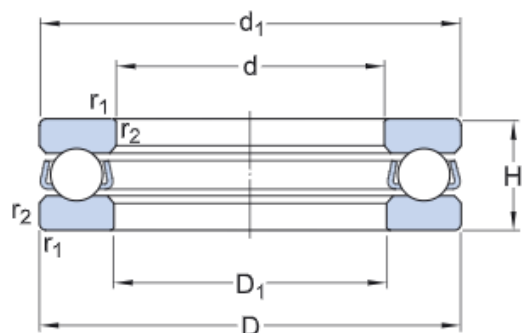
Basic dynamic load rating	728 kN
Basic static load rating	4 150 kN
Limiting speed	700 r/min
Reference speed	500 r/min

Properties

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



Technical Specification



Dimensions

d	380 mm	Bore diameter
D	520 mm	Outside diameter
H	112 mm	Height
d_1	≈ 515 mm	Outside diameter shaft washer
D_1	≈ 385 mm	Inner diameter housing washer
$r_{1,2}$	min. 4 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 463 mm	Abutment diameter shaft
D_a	max. 437 mm	Abutment diameter housing
r_a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	728 kN
Basic static load rating	C_0	4 150 kN
Fatigue load limit	P_u	72 kN
Reference speed		500 r/min
Limiting speed		700 r/min
Minimum load factor	A	90

51280 F

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	400 mm
Height	112 mm
Outside diameter	540 mm

Performance

Basic dynamic load rating	761 kN
Basic static load rating	4 500 kN
Limiting speed	700 r/min
Reference speed	500 r/min

Properties

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



Technical Specification



Dimensions

d	400 mm	Bore diameter
D	540 mm	Outside diameter
H	112 mm	Height
d ₁	≈ 534 mm	Outside diameter shaft washer
D ₁	≈ 405 mm	Inner diameter housing washer
r _{1,2}	min. 4 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 483 mm	Abutment diameter shaft
D _a	max. 457 mm	Abutment diameter housing
r _a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	761 kN
Basic static load rating	C ₀	4 500 kN
Fatigue load limit	P _u	76.5 kN
Reference speed		500 r/min
Limiting speed		700 r/min
Minimum load factor	A	110

51284 F

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	420 mm
Height	130 mm
Outside diameter	580 mm

Performance

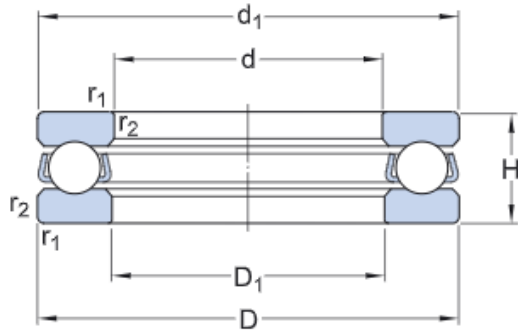
Basic dynamic load rating	884 kN
Basic static load rating	5 500 kN
Limiting speed	600 r/min
Reference speed	430 r/min

Properties

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

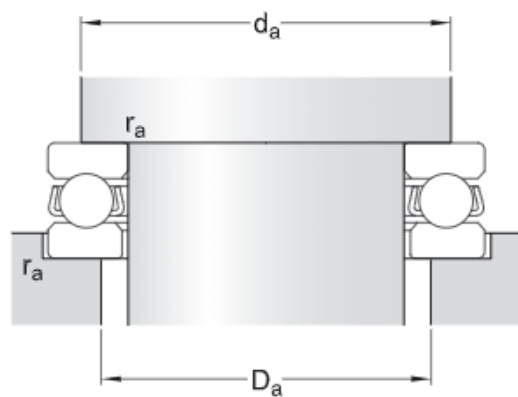


Technical Specification



Dimensions

d	420 mm	Bore diameter
D	580 mm	Outside diameter
H	130 mm	Height
d ₁	≈ 574 mm	Outside diameter shaft washer
D ₁	≈ 426 mm	Inner diameter housing washer
r _{1,2}	min. 5 mm	Chamfer dimension washer



Abutment dimensions

da	min. 515 mm	Abutment diameter shaft
Da	max. 485 mm	Abutment diameter housing
ra	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	884 kN
Basic static load rating	C ₀	5 500 kN
Fatigue load limit	P _u	90 kN
Reference speed		430 r/min
Limiting speed		600 r/min
Minimum load factor	A	130

51288 F

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	440 mm
Height	130 mm
Outside diameter	600 mm

Performance

Basic dynamic load rating	904 kN
Basic static load rating	5 700 kN
Limiting speed	600 r/min
Reference speed	430 r/min

Properties

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



Technical Specification



Dimensions

d	440 mm	Bore diameter
D	600 mm	Outside diameter
H	130 mm	Height
d ₁	≈ 594 mm	Outside diameter shaft washer
D ₁	≈ 446 mm	Inner diameter housing washer
r _{1,2}	min. 5 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 535 mm	Abutment diameter shaft
D _a	max. 505 mm	Abutment diameter housing
r _a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	904 kN
Basic static load rating	C ₀	5 700 kN
Fatigue load limit	P _u	93 kN
Reference speed		430 r/min
Limiting speed		600 r/min
Minimum load factor	A	170

51292 F

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	460 mm
Height	130 mm
Outside diameter	620 mm

Performance

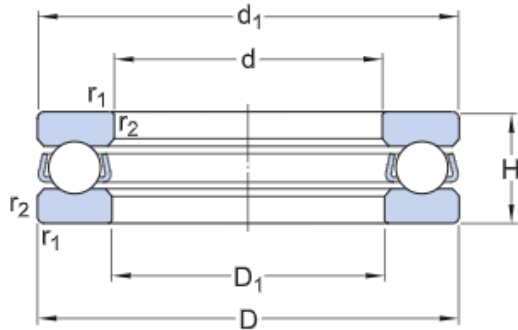
Basic dynamic load rating	923 kN
Basic static load rating	5 850 kN
Limiting speed	600 r/min
Reference speed	430 r/min

Properties

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

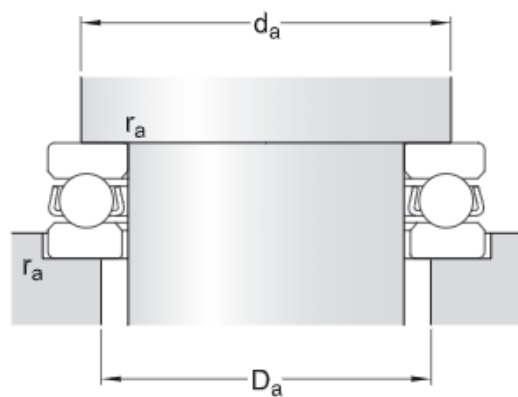


Technical Specification



Dimensions

d	460 mm	Bore diameter
D	620 mm	Outside diameter
H	130 mm	Height
d_1	≈ 614 mm	Outside diameter shaft washer
D_1	≈ 466 mm	Inner diameter housing washer
$r_{1,2}$	min. 5 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 555 mm	Abutment diameter shaft
D_a	max. 525 mm	Abutment diameter housing
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	923 kN
Basic static load rating	C_0	5 850 kN
Fatigue load limit	P_u	95 kN
Reference speed		430 r/min
Limiting speed		600 r/min
Minimum load factor	A	180

51296 F

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	480 mm
Height	135 mm
Outside diameter	650 mm

Performance

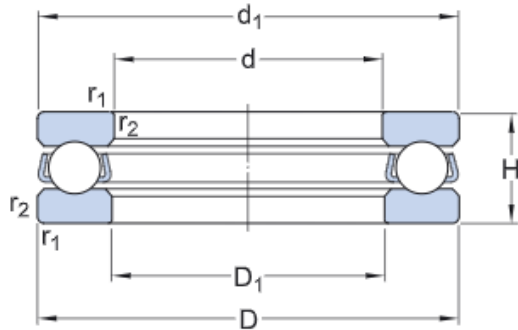
Basic dynamic load rating	995 kN
Basic static load rating	6 550 kN
Limiting speed	560 r/min
Reference speed	400 r/min

Properties

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

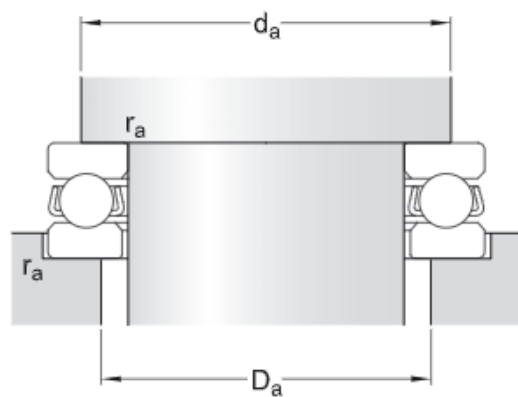


Technical Specification



Dimensions

d	480 mm	Bore diameter
D	650 mm	Outside diameter
H	135 mm	Height
d ₁	≈ 644 mm	Outside diameter shaft washer
D ₁	≈ 486 mm	Inner diameter housing washer
r _{1,2}	min. 5 mm	Chamfer dimension washer



Abutment dimensions

da	min. 581 mm	Abutment diameter shaft
Da	max. 549 mm	Abutment diameter housing
ra	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	995 kN
Basic static load rating	C ₀	6 550 kN
Fatigue load limit	P _u	102 kN
Reference speed		400 r/min
Limiting speed		560 r/min
Minimum load factor	A	220

51305

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	25 mm
Height	18 mm
Outside diameter	52 mm

Performance

Basic dynamic load rating	34.5 kN
Basic static load rating	60 kN
Limiting speed	6 300 r/min
Reference speed	4 500 r/min

Properties

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



Technical Specification



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
H	18 mm	Height
d ₁	≈ 52 mm	Outside diameter shaft washer
D ₁	≈ 27 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 41 mm	Abutment diameter shaft
D _a	max. 36 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	34.5 kN
Basic static load rating	C ₀	60 kN
Fatigue load limit	P _u	2.24 kN
Reference speed		4 500 r/min
Limiting speed		6 300 r/min
Minimum load factor	A	0.018

51306

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	30 mm
Height	21 mm
Outside diameter	60 mm

Performance

Basic dynamic load rating	35.8 kN
Basic static load rating	65.5 kN
Limiting speed	5 300 r/min
Reference speed	3 800 r/min

Properties

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



Technical Specification



Dimensions

d	30 mm	Bore diameter
D	60 mm	Outside diameter
H	21 mm	Height
d ₁	≈ 60 mm	Outside diameter shaft washer
D ₁	≈ 32 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 48 mm	Abutment diameter shaft
D _a	max. 42 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	35.8 kN
Basic static load rating	C ₀	65.5 kN
Fatigue load limit	P _u	2.4 kN
Reference speed		3 800 r/min
Limiting speed		5 300 r/min
Minimum load factor	A	0.026

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
Height	24 mm
Outside diameter	68 mm

Performance

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

Properties

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



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

da	min. 55 mm	Abutment diameter shaft
Da	max. 48 mm	Abutment diameter housing
ra	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

51308

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	40 mm
Height	26 mm
Outside diameter	78 mm

Performance

Basic dynamic load rating	61.8 kN
Basic static load rating	122 kN
Limiting speed	4 300 r/min
Reference speed	3 000 r/min

Properties

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



Technical Specification



Dimensions

d	40 mm	Bore diameter
D	78 mm	Outside diameter
H	26 mm	Height
d ₁	≈ 78 mm	Outside diameter shaft washer
D ₁	≈ 42 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 63 mm	Abutment diameter shaft
D _a	max. 55 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	61.8 kN
Basic static load rating	C ₀	122 kN
Fatigue load limit	P _u	4.5 kN
Reference speed		3 000 r/min
Limiting speed		4 300 r/min
Minimum load factor	A	0.077

51309

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	45 mm
Height	28 mm
Outside diameter	85 mm

Performance

Basic dynamic load rating	76.1 kN
Basic static load rating	153 kN
Limiting speed	4 000 r/min
Reference speed	2 800 r/min

Properties

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



Technical Specification



Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
H	28 mm	Height
d ₁	≈ 85 mm	Outside diameter shaft washer
D ₁	≈ 47 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 69 mm	Abutment diameter shaft
D _a	max. 61 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	76.1 kN
Basic static load rating	C ₀	153 kN
Fatigue load limit	P _u	5.6 kN
Reference speed		2 800 r/min
Limiting speed		4 000 r/min
Minimum load factor	A	0.12

51310

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	50 mm
Height	31 mm
Outside diameter	95 mm

Performance

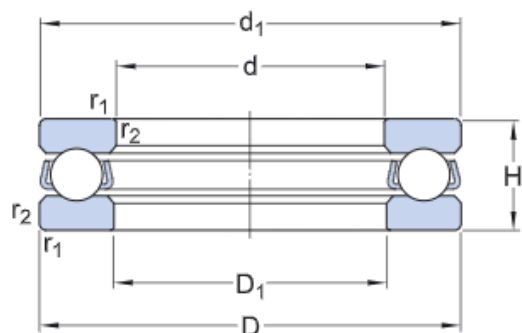
Basic dynamic load rating	81.9 kN
Basic static load rating	170 kN
Limiting speed	3 600 r/min
Reference speed	2 600 r/min

Properties

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



Technical Specification



Dimensions

d	50 mm	Bore diameter
D	95 mm	Outside diameter
H	31 mm	Height
d_1	≈ 95 mm	Outside diameter shaft washer
D_1	≈ 52 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 77 mm	Abutment diameter shaft
D_a	max. 68 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	81.9 kN
Basic static load rating	C_0	170 kN
Fatigue load limit	P_u	6.3 kN
Reference speed		2 600 r/min
Limiting speed		3 600 r/min
Minimum load factor	A	0.19

51311

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	55 mm
Height	35 mm
Outside diameter	105 mm

Performance

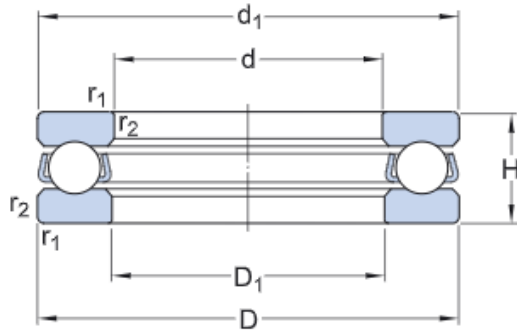
Basic dynamic load rating	101 kN
Basic static load rating	224 kN
Limiting speed	3 200 r/min
Reference speed	2 200 r/min

Properties

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

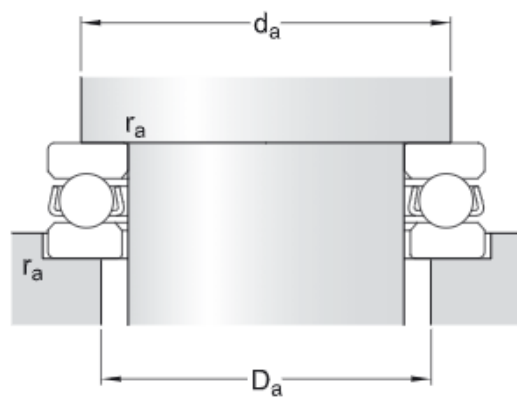


Technical Specification



Dimensions

d	55 mm	Bore diameter
D	105 mm	Outside diameter
H	35 mm	Height
d ₁	≈ 105 mm	Outside diameter shaft washer
D ₁	≈ 57 mm	Inner diameter housing washer
r _{1,2}	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 85 mm	Abutment diameter shaft
D _a	max. 75 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	101 kN
Basic static load rating	C ₀	224 kN
Fatigue load limit	P _u	8.3 kN
Reference speed		2 200 r/min
Limiting speed		3 200 r/min
Minimum load factor	A	0.26

51312

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	60 mm
Height	35 mm
Outside diameter	110 mm

Performance

Basic dynamic load rating	101 kN
Basic static load rating	224 kN
Limiting speed	3 000 r/min
Reference speed	2 200 r/min

Properties

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



Technical Specification



Dimensions

d	60 mm	Bore diameter
D	110 mm	Outside diameter
H	35 mm	Height
d ₁	≈ 110 mm	Outside diameter shaft washer
D ₁	≈ 62 mm	Inner diameter housing washer
r _{1,2}	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 90 mm	Abutment diameter shaft
D _a	max. 80 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	101 kN
Basic static load rating	C ₀	224 kN
Fatigue load limit	P _u	8.3 kN
Reference speed		2 200 r/min
Limiting speed		3 000 r/min
Minimum load factor	A	0.26

51313

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	65 mm
Height	36 mm
Outside diameter	115 mm

Performance

Basic dynamic load rating	106 kN
Basic static load rating	240 kN
Limiting speed	3 000 r/min
Reference speed	2 000 r/min

Properties

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

Technical Specification



Dimensions

d	65 mm	Bore diameter
D	115 mm	Outside diameter
H	36 mm	Height
d ₁	≈ 115 mm	Outside diameter shaft washer
D ₁	≈ 67 mm	Inner diameter housing washer
r _{1,2}	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 95 mm	Abutment diameter shaft
D _a	max. 85 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	106 kN
Basic static load rating	C ₀	240 kN
Fatigue load limit	P _u	8.8 kN
Reference speed		2 000 r/min
Limiting speed		3 000 r/min
Minimum load factor	A	0.3

51314

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	70 mm
Height	40 mm
Outside diameter	125 mm

Performance

Basic dynamic load rating	135 kN
Basic static load rating	320 kN
Limiting speed	2 600 r/min
Reference speed	1 900 r/min

Properties

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



Technical Specification



Dimensions

d	70 mm	Bore diameter
D	125 mm	Outside diameter
H	40 mm	Height
d_1	≈ 125 mm	Outside diameter shaft washer
D_1	≈ 72 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 103 mm	Abutment diameter shaft
D_a	max. 92 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	135 kN
Basic static load rating	C_0	320 kN
Fatigue load limit	P_u	11.8 kN
Reference speed		1 900 r/min
Limiting speed		2 600 r/min
Minimum load factor	A	0.53

51315



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	75 mm
Height	44 mm
Outside diameter	135 mm

Performance

Basic dynamic load rating	163 kN
Basic static load rating	390 kN
Limiting speed	2 400 r/min
Reference speed	1 700 r/min

Properties

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

Technical Specification



Dimensions

d	75 mm	Bore diameter
D	135 mm	Outside diameter
H	44 mm	Height
d ₁	≈ 135 mm	Outside diameter shaft washer
D ₁	≈ 77 mm	Inner diameter housing washer
r _{1,2}	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

da	min. 111 mm	Abutment diameter shaft
Da	max. 99 mm	Abutment diameter housing
ra	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	163 kN
Basic static load rating	C ₀	390 kN
Fatigue load limit	P _u	14 kN
Reference speed		1 700 r/min
Limiting speed		2 400 r/min
Minimum load factor	A	0.79

51316

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	80 mm
Height	44 mm
Outside diameter	140 mm

Performance

Basic dynamic load rating	159 kN
Basic static load rating	390 kN
Limiting speed	2 400 r/min
Reference speed	1 700 r/min

Properties

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

Technical Specification



Dimensions

d	80 mm	Bore diameter
D	140 mm	Outside diameter
H	44 mm	Height
d_1	≈ 140 mm	Outside diameter shaft washer
D_1	≈ 82 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 116 mm	Abutment diameter shaft
D_a	max. 104 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	159 kN
Basic static load rating	C_0	390 kN
Fatigue load limit	P_u	13.7 kN
Reference speed		1 700 r/min
Limiting speed		2 400 r/min
Minimum load factor	A	0.79

51317

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	85 mm
Height	49 mm
Outside diameter	150 mm

Performance

Basic dynamic load rating	174 kN
Basic static load rating	405 kN
Limiting speed	2 200 r/min
Reference speed	1 600 r/min

Properties

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

Technical Specification



Dimensions

d	85 mm	Bore diameter
D	150 mm	Outside diameter
H	49 mm	Height
d_1	≈ 150 mm	Outside diameter shaft washer
D_1	≈ 88 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 124 mm	Abutment diameter shaft
D_a	max. 111 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

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		1 600 r/min
Limiting speed		2 200 r/min
Minimum load factor	A	1.1

51318

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	90 mm
Height	50 mm
Outside diameter	155 mm

Performance

Basic dynamic load rating	182 kN
Basic static load rating	440 kN
Limiting speed	2 200 r/min
Reference speed	1 500 r/min

Properties

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



Technical Specification



Dimensions

d	90 mm	Bore diameter
D	155 mm	Outside diameter
H	50 mm	Height
d ₁	≈ 155 mm	Outside diameter shaft washer
D ₁	≈ 93 mm	Inner diameter housing washer
r _{1,2}	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 129 mm	Abutment diameter shaft
D _a	max. 116 mm	Abutment diameter housing
r _a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	182 kN
Basic static load rating	C ₀	440 kN
Fatigue load limit	P _u	14.6 kN
Reference speed		1 500 r/min
Limiting speed		2 200 r/min
Minimum load factor	A	1.3

51320

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	100 mm
Height	55 mm
Outside diameter	170 mm

Performance

Basic dynamic load rating	225 kN
Basic static load rating	570 kN
Limiting speed	1 900 r/min
Reference speed	1 400 r/min

Properties

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

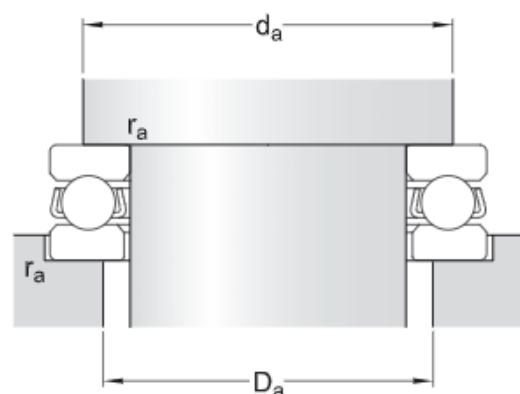


Technical Specification



Dimensions

d	100 mm	Bore diameter
D	170 mm	Outside diameter
H	55 mm	Height
d_1	≈ 170 mm	Outside diameter shaft washer
D_1	≈ 103 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 142 mm	Abutment diameter shaft
D_a	max. 128 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	225 kN
Basic static load rating	C_0	570 kN
Fatigue load limit	P_u	18.3 kN
Reference speed		1 400 r/min
Limiting speed		1 900 r/min
Minimum load factor	A	1.9

51322 M

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

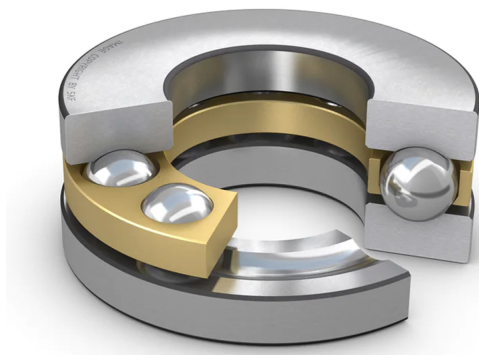
Bore diameter	110 mm
Height	63 mm
Outside diameter	190 mm

Performance

Basic dynamic load rating	291 kN
Basic static load rating	800 kN
Limiting speed	1 700 r/min
Reference speed	1 200 r/min

Properties

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



Technical Specification



Dimensions

d	110 mm	Bore diameter
D	190 mm	Outside diameter
H	63 mm	Height
d_1	≈ 187 mm	Outside diameter shaft washer
D_1	≈ 113 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 158 mm	Abutment diameter shaft
D_a	max. 142 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	291 kN
Basic static load rating	C_0	800 kN
Fatigue load limit	P_u	24.5 kN
Reference speed		1 200 r/min
Limiting speed		1 700 r/min
Minimum load factor	A	3.2

51324 M

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

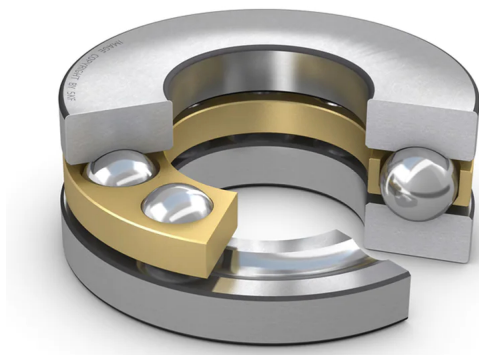
Bore diameter	120 mm
Height	70 mm
Outside diameter	210 mm

Performance

Basic dynamic load rating	332 kN
Basic static load rating	980 kN
Limiting speed	1 500 r/min
Reference speed	1 100 r/min

Properties

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



Technical Specification



Dimensions

d	120 mm	Bore diameter
D	210 mm	Outside diameter
H	70 mm	Height
d ₁	≈ 205 mm	Outside diameter shaft washer
D ₁	≈ 123 mm	Inner diameter housing washer
r _{1,2}	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

da	min. 173 mm	Abutment diameter shaft
Da	max. 157 mm	Abutment diameter housing
ra	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	332 kN
Basic static load rating	C ₀	980 kN
Fatigue load limit	P _u	28 kN
Reference speed		1 100 r/min
Limiting speed		1 500 r/min
Minimum load factor	A	5

51326 M

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

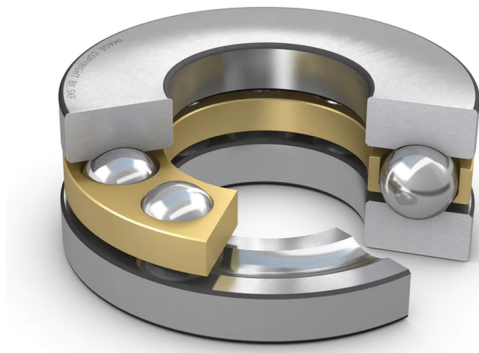
Bore diameter	130 mm
Height	75 mm
Outside diameter	225 mm

Performance

Basic dynamic load rating	351 kN
Basic static load rating	1 060 kN
Limiting speed	1 400 r/min
Reference speed	1 000 r/min

Properties

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



Technical Specification



Dimensions

d	130 mm	Bore diameter
D	225 mm	Outside diameter
H	75 mm	Height
d ₁	≈ 220 mm	Outside diameter shaft washer
D ₁	≈ 134 mm	Inner diameter housing washer
r _{1,2}	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 186 mm	Abutment diameter shaft
D _a	max. 169 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	351 kN
Basic static load rating	C ₀	1 060 kN
Fatigue load limit	P _u	30 kN
Reference speed		1 000 r/min
Limiting speed		1 400 r/min
Minimum load factor	A	6.8

51328 M

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

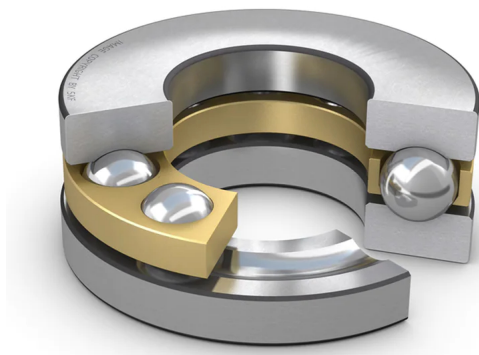
Bore diameter	140 mm
Height	80 mm
Outside diameter	240 mm

Performance

Basic dynamic load rating	416 kN
Basic static load rating	1 370 kN
Limiting speed	1 300 r/min
Reference speed	950 r/min

Properties

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



Technical Specification



Dimensions

d	140 mm	Bore diameter
D	240 mm	Outside diameter
H	80 mm	Height
d_1	≈ 235 mm	Outside diameter shaft washer
D_1	≈ 144 mm	Inner diameter housing washer
$r_{1,2}$	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 199 mm	Abutment diameter shaft
D_a	max. 181 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	416 kN
Basic static load rating	C_0	1 370 kN
Fatigue load limit	P_u	36.5 kN
Reference speed		950 r/min
Limiting speed		1 300 r/min
Minimum load factor	A	9.1

51330 M

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

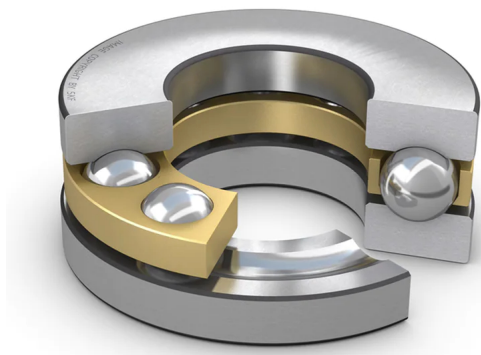
Bore diameter	150 mm
Height	80 mm
Outside diameter	250 mm

Performance

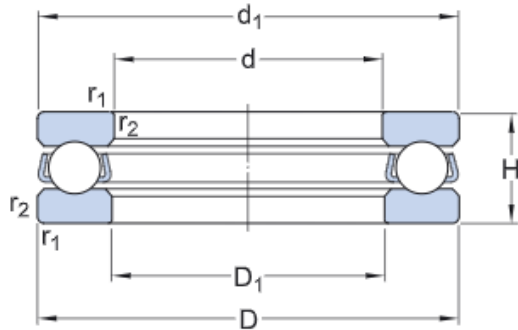
Basic dynamic load rating	423 kN
Basic static load rating	1 460 kN
Limiting speed	1 300 r/min
Reference speed	900 r/min

Properties

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

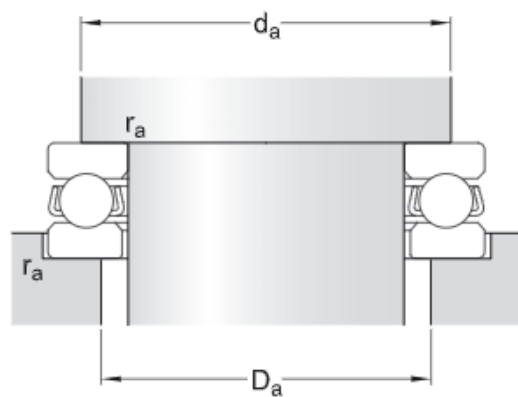


Technical Specification



Dimensions

d	150 mm	Bore diameter
D	250 mm	Outside diameter
H	80 mm	Height
d ₁	≈ 245 mm	Outside diameter shaft washer
D ₁	≈ 154 mm	Inner diameter housing washer
r _{1,2}	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

da	min. 209 mm	Abutment diameter shaft
Da	max. 191 mm	Abutment diameter housing
ra	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	423 kN
Basic static load rating	C ₀	1 460 kN
Fatigue load limit	P _u	39 kN
Reference speed		900 r/min
Limiting speed		1 300 r/min
Minimum load factor	A	10

51332 M

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

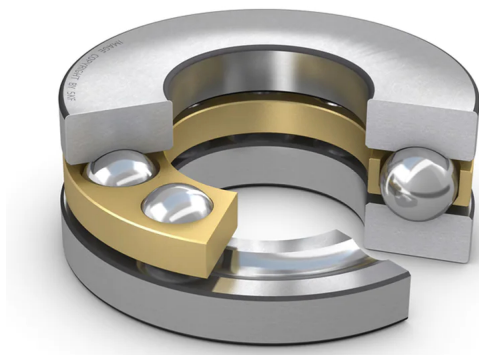
Bore diameter	160 mm
Height	87 mm
Outside diameter	270 mm

Performance

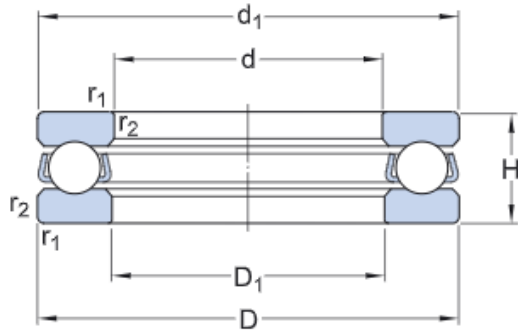
Basic dynamic load rating	442 kN
Basic static load rating	1 600 kN
Limiting speed	1 200 r/min
Reference speed	850 r/min

Properties

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

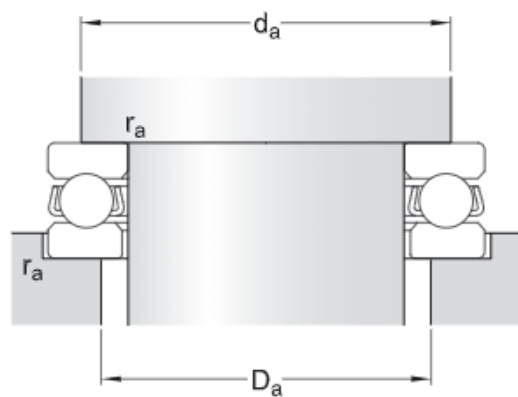


Technical Specification



Dimensions

d	160 mm	Bore diameter
D	270 mm	Outside diameter
H	87 mm	Height
d ₁	≈ 265 mm	Outside diameter shaft washer
D ₁	≈ 164 mm	Inner diameter housing washer
r _{1,2}	min. 3 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 225 mm	Abutment diameter shaft
D _a	max. 205 mm	Abutment diameter housing
r _a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	442 kN
Basic static load rating	C ₀	1 600 kN
Fatigue load limit	P _u	40 kN
Reference speed		850 r/min
Limiting speed		1 200 r/min
Minimum load factor	A	14

51334 M

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

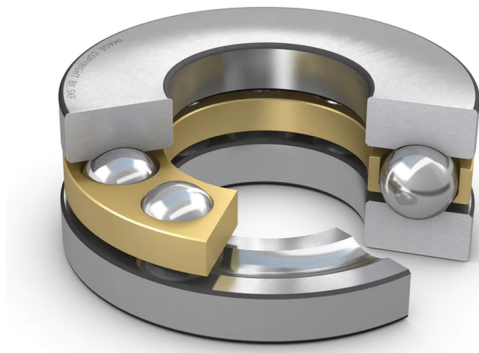
Bore diameter	170 mm
Height	87 mm
Outside diameter	280 mm

Performance

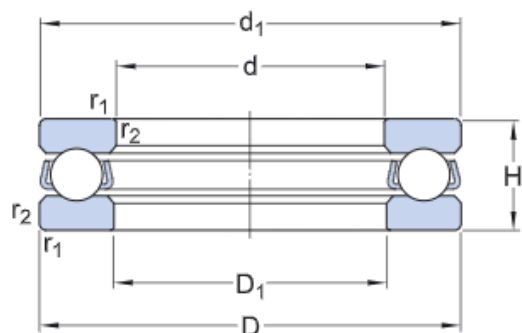
Basic dynamic load rating	449 kN
Basic static load rating	1 700 kN
Limiting speed	1 100 r/min
Reference speed	800 r/min

Properties

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



Technical Specification



Dimensions

d	170 mm	Bore diameter
D	280 mm	Outside diameter
H	87 mm	Height
d ₁	≈ 275 mm	Outside diameter shaft washer
D ₁	≈ 174 mm	Inner diameter housing washer
r _{1,2}	min. 3 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 235 mm	Abutment diameter shaft
D _a	max. 215 mm	Abutment diameter housing
r _a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	449 kN
Basic static load rating	C ₀	1 700 kN
Fatigue load limit	P _u	41.5 kN
Reference speed		800 r/min
Limiting speed		1 100 r/min
Minimum load factor	A	16

51336 M

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

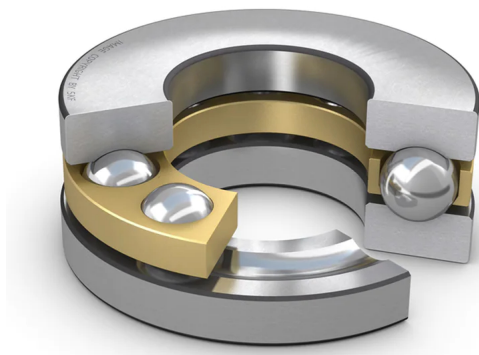
Bore diameter	180 mm
Height	95 mm
Outside diameter	300 mm

Performance

Basic dynamic load rating	520 kN
Basic static load rating	2 000 kN
Limiting speed	1 100 r/min
Reference speed	750 r/min

Properties

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

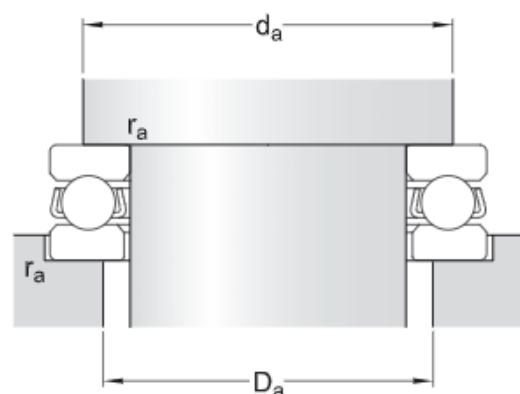


Technical Specification



Dimensions

d	180 mm	Bore diameter
D	300 mm	Outside diameter
H	95 mm	Height
d ₁	≈ 295 mm	Outside diameter shaft washer
D ₁	≈ 184 mm	Inner diameter housing washer
r _{1,2}	min. 3 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 251 mm	Abutment diameter shaft
D _a	max. 229 mm	Abutment diameter housing
r _a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	520 kN
Basic static load rating	C ₀	2 000 kN
Fatigue load limit	P _u	47.5 kN
Reference speed		750 r/min
Limiting speed		1 100 r/min
Minimum load factor	A	21

51340 M

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	200 mm
Height	110 mm
Outside diameter	340 mm

Performance

Basic dynamic load rating	624 kN
Basic static load rating	2 600 kN
Limiting speed	900 r/min
Reference speed	630 r/min

Properties

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



Technical Specification



Dimensions

d	200 mm	Bore diameter
D	340 mm	Outside diameter
H	110 mm	Height
d ₁	≈ 335 mm	Outside diameter shaft washer
D ₁	≈ 205 mm	Inner diameter housing washer
r _{1,2}	min. 4 mm	Chamfer dimension washer



Abutment dimensions

da	min. 283 mm	Abutment diameter shaft
Da	max. 257 mm	Abutment diameter housing
ra	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	624 kN
Basic static load rating	C ₀	2 600 kN
Fatigue load limit	P _u	58.5 kN
Reference speed		630 r/min
Limiting speed		900 r/min
Minimum load factor	A	35

51368 F

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	340 mm
Height	160 mm
Outside diameter	540 mm

Performance

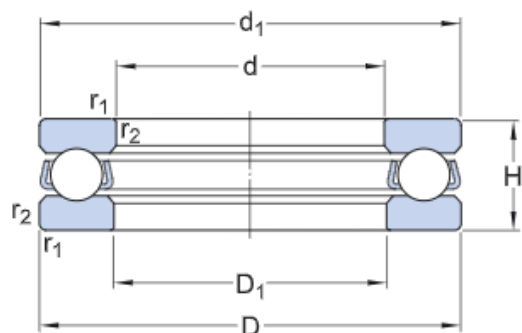
Basic dynamic load rating	1 040 kN
Basic static load rating	5 850 kN
Limiting speed	560 r/min
Reference speed	400 r/min

Properties

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



Technical Specification



Dimensions

d	340 mm	Bore diameter
D	540 mm	Outside diameter
H	160 mm	Height
d ₁	≈ 534 mm	Outside diameter shaft washer
D ₁	≈ 346 mm	Inner diameter housing washer
r _{1,2}	min. 5 mm	Chamfer dimension washer



Abutment dimensions

da	min. 458 mm	Abutment diameter shaft
Da	max. 422 mm	Abutment diameter housing
ra	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 040 kN
Basic static load rating	C ₀	5 850 kN
Fatigue load limit	P _u	10.4 kN
Reference speed		400 r/min
Limiting speed		560 r/min
Minimum load factor	A	180

51405

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	25 mm
Height	24 mm
Outside diameter	60 mm

Performance

Basic dynamic load rating	42.3 kN
Basic static load rating	67 kN
Limiting speed	5 000 r/min
Reference speed	3 600 r/min

Properties

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

Technical Specification



Dimensions

d	25 mm	Bore diameter
D	60 mm	Outside diameter
H	24 mm	Height
d ₁	≈ 60 mm	Outside diameter shaft washer
D ₁	≈ 27 mm	Inner diameter housing washer
r _{1,2}	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 46 mm	Abutment diameter shaft
D _a	max. 39 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	42.3 kN
Basic static load rating	C ₀	67 kN
Fatigue load limit	P _u	2.45 kN
Reference speed		3 600 r/min
Limiting speed		5 000 r/min
Minimum load factor	A	0.048

51406

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	30 mm
Height	28 mm
Outside diameter	70 mm

Performance

Basic dynamic load rating	70.2 kN
Basic static load rating	122 kN
Limiting speed	4 300 r/min
Reference speed	3 000 r/min

Properties

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



Technical Specification



Dimensions

d	30 mm	Bore diameter
D	70 mm	Outside diameter
H	28 mm	Height
d_1	≈ 70 mm	Outside diameter shaft washer
D_1	≈ 32 mm	Inner diameter housing washer
$r_{1,2}$	min. 1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 54 mm	Abutment diameter shaft
D_a	max. 46 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	70.2 kN
Basic static load rating	C_0	122 kN
Fatigue load limit	P_u	4.5 kN
Reference speed		3 000 r/min
Limiting speed		4 300 r/min
Minimum load factor	A	0.097

51407

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
Height	32 mm
Outside diameter	80 mm

Performance

Basic dynamic load rating	76.1 kN
Basic static load rating	137 kN
Limiting speed	3 600 r/min
Reference speed	2 600 r/min

Properties

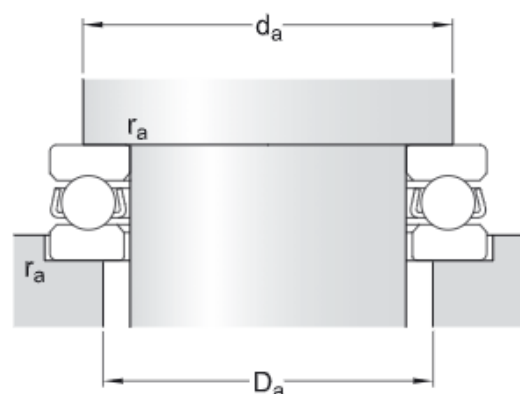
Axial load capability	Single-direction
Cage	Sheet metal
Coating	Without
Housing washer type	Flat
Material, bearing	Bearing steel
Number of rows	1
Tolerance class	Normal

Technical Specification



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
H	32 mm	Height
d_1	≈ 80 mm	Outside diameter shaft washer
D_1	≈ 37 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 62 mm	Abutment diameter shaft
D_a	max. 53 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	76.1 kN
Basic static load rating	C_0	137 kN
Fatigue load limit	P_u	5.1 kN
Reference speed		2 600 r/min
Limiting speed		3 600 r/min
Minimum load factor	A	0.15

51408

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	40 mm
Height	36 mm
Outside diameter	90 mm

Performance

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

Properties

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



Technical Specification



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
H	36 mm	Height
d_1	≈ 90 mm	Outside diameter shaft washer
D_1	≈ 42 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 70 mm	Abutment diameter shaft
D_a	max. 60 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		3 400 r/min
Minimum load factor	A	0.26

51409

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	45 mm
Height	39 mm
Outside diameter	100 mm

Performance

Basic dynamic load rating	124 kN
Basic static load rating	240 kN
Limiting speed	3 000 r/min
Reference speed	2 200 r/min

Properties

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

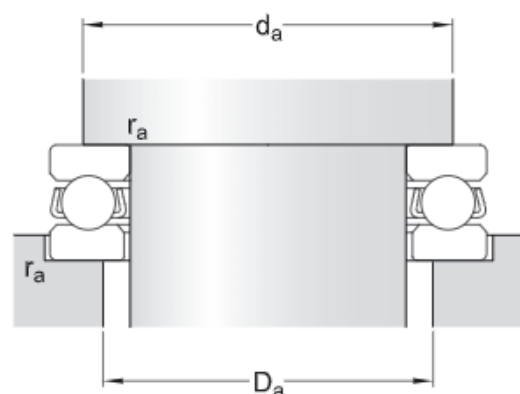


Technical Specification



Dimensions

d	45 mm	Bore diameter
D	100 mm	Outside diameter
H	39 mm	Height
d ₁	≈ 100 mm	Outside diameter shaft washer
D ₁	≈ 47 mm	Inner diameter housing washer
r _{1,2}	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 78 mm	Abutment diameter shaft
D _a	max. 67 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	124 kN
Basic static load rating	C ₀	240 kN
Fatigue load limit	P _u	9 kN
Reference speed		2 200 r/min
Limiting speed		3 000 r/min
Minimum load factor	A	0.37

51410

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	50 mm
Height	43 mm
Outside diameter	110 mm

Performance

Basic dynamic load rating	159 kN
Basic static load rating	340 kN
Limiting speed	2 800 r/min
Reference speed	2 000 r/min

Properties

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



Technical Specification



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
H	43 mm	Height
d_1	≈ 110 mm	Outside diameter shaft washer
D_1	≈ 52 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 86 mm	Abutment diameter shaft
D_a	max. 74 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	159 kN
Basic static load rating	C_0	340 kN
Fatigue load limit	P_u	12.5 kN
Reference speed		2 000 r/min
Limiting speed		2 800 r/min
Minimum load factor	A	0.6

51411

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	55 mm
Height	48 mm
Outside diameter	120 mm

Performance

Basic dynamic load rating	195 kN
Basic static load rating	400 kN
Limiting speed	2 400 r/min
Reference speed	1 800 r/min

Properties

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

Technical Specification



Dimensions

d	55 mm	Bore diameter
D	120 mm	Outside diameter
H	48 mm	Height
d_1	≈ 120 mm	Outside diameter shaft washer
D_1	≈ 57 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 94 mm	Abutment diameter shaft
D_a	max. 81 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

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		1 800 r/min
Limiting speed		2 400 r/min
Minimum load factor	A	0.79

51412 M

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

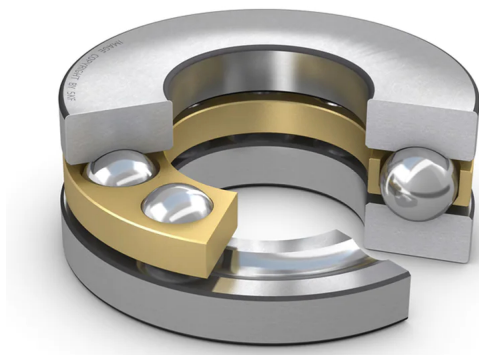
Bore diameter	60 mm
Height	51 mm
Outside diameter	130 mm

Performance

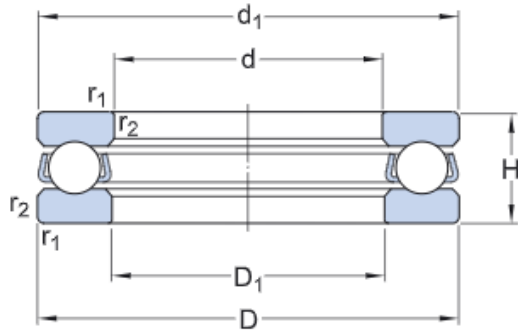
Basic dynamic load rating	199 kN
Basic static load rating	430 kN
Limiting speed	2 200 r/min
Reference speed	1 600 r/min

Properties

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

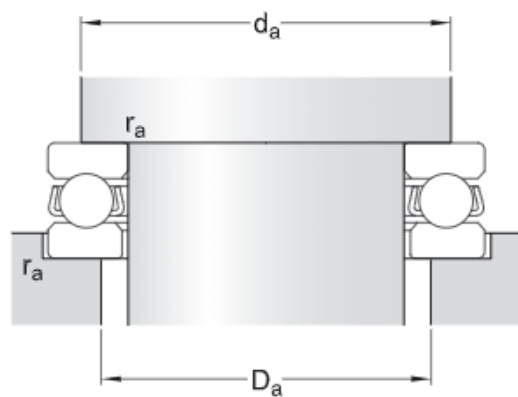


Technical Specification



Dimensions

d	60 mm	Bore diameter
D	130 mm	Outside diameter
H	51 mm	Height
d_1	≈ 130 mm	Outside diameter shaft washer
D_1	≈ 62 mm	Inner diameter housing washer
$r_{1,2}$	min. 1.5 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 102 mm	Abutment diameter shaft
D_a	max. 88 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	199 kN
Basic static load rating	C_0	430 kN
Fatigue load limit	P_u	16 kN
Reference speed		1 600 r/min
Limiting speed		2 200 r/min
Minimum load factor	A	0.96

51413 M

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

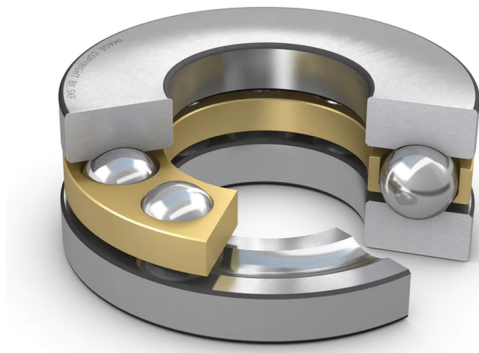
Bore diameter	65 mm
Height	56 mm
Outside diameter	140 mm

Performance

Basic dynamic load rating	216 kN
Basic static load rating	490 kN
Limiting speed	2 200 r/min
Reference speed	1 500 r/min

Properties

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

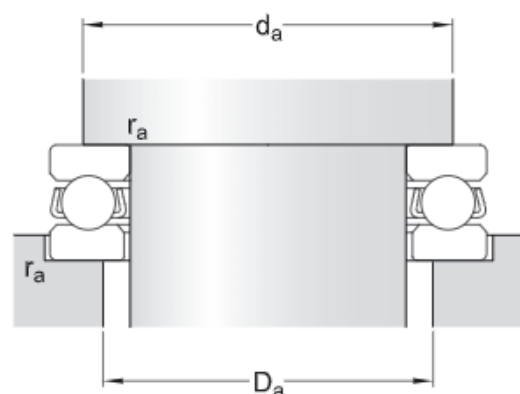


Technical Specification



Dimensions

d	65 mm	Bore diameter
D	140 mm	Outside diameter
H	56 mm	Height
d_1	≈ 140 mm	Outside diameter shaft washer
D_1	≈ 68 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 110 mm	Abutment diameter shaft
D_a	max. 95 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	216 kN
Basic static load rating	C_0	490 kN
Fatigue load limit	P_u	18 kN
Reference speed		1 500 r/min
Limiting speed		2 200 r/min
Minimum load factor	A	1.2

51414 M

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

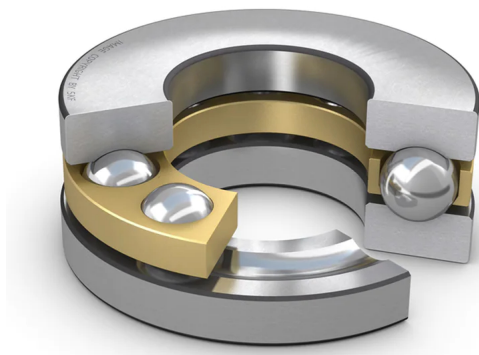
Bore diameter	70 mm
Height	60 mm
Outside diameter	150 mm

Performance

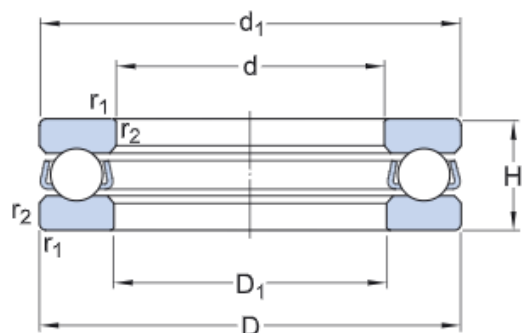
Basic dynamic load rating	234 kN
Basic static load rating	550 kN
Limiting speed	2 000 r/min
Reference speed	1 400 r/min

Properties

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



Technical Specification



Dimensions

d	70 mm	Bore diameter
D	150 mm	Outside diameter
H	60 mm	Height
d_1	≈ 150 mm	Outside diameter shaft washer
D_1	≈ 73 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 118 mm	Abutment diameter shaft
D_a	max. 102 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	234 kN
Basic static load rating	C_0	550 kN
Fatigue load limit	P_u	19.3 kN
Reference speed		1 400 r/min
Limiting speed		2 000 r/min
Minimum load factor	A	1.6

51415 M

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

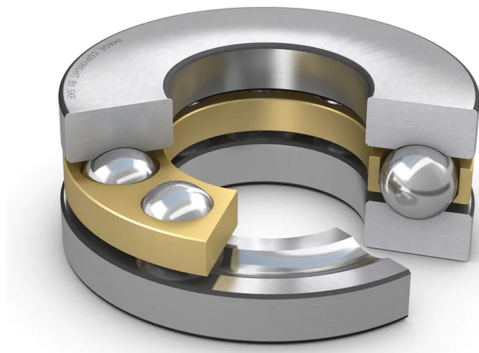
Bore diameter	75 mm
Height	65 mm
Outside diameter	160 mm

Performance

Basic dynamic load rating	251 kN
Basic static load rating	610 kN
Limiting speed	1 800 r/min
Reference speed	1 300 r/min

Properties

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



Technical Specification



Dimensions

d	75 mm	Bore diameter
D	160 mm	Outside diameter
H	65 mm	Height
d_1	≈ 160 mm	Outside diameter shaft washer
D_1	≈ 78 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 126 mm	Abutment diameter shaft
D_a	max. 109 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	251 kN
Basic static load rating	C_0	610 kN
Fatigue load limit	P_u	20.8 kN
Reference speed		1 300 r/min
Limiting speed		1 800 r/min
Minimum load factor	A	1.9

51416

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	80 mm
Height	68 mm
Outside diameter	170 mm

Performance

Basic dynamic load rating	302 kN
Basic static load rating	750 kN
Limiting speed	1 700 r/min
Reference speed	1 200 r/min

Properties

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



Technical Specification

Dimensions

Bore diameter	d	80 mm
Outside diameter	D	170 mm
Height	H	68 mm
Outside diameter shaft washer	d ₁	≈ 170 mm
Inner diameter housing washer	D ₁	≈ 83 mm
Chamfer dimension washer	r _{1,2}	min. 2.1 mm

Abutment dimensions

Abutment diameter shaft	d _a	min. 133 mm
Abutment diameter housing	D _a	max. 117 mm
Fillet radius	r _a	max. 2 mm

Calculation data

Basic dynamic load rating	C	302 kN
Basic static load rating	C ₀	750 kN
Fatigue load limit	P _u	25 kN
Reference speed		1 200 r/min
Limiting speed		1 700 r/min
Minimum load factor	A	2.3

Mass

Mass bearing (including seat washer where applicable)	7.95 kg
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51416 M

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

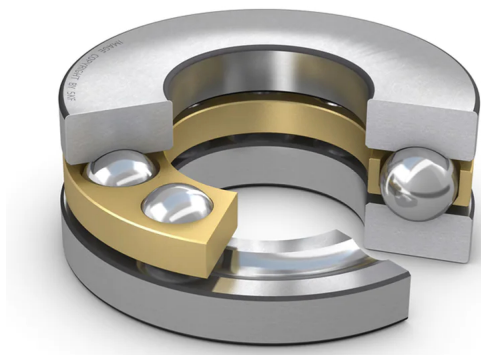
Bore diameter	80 mm
Height	68 mm
Outside diameter	170 mm

Performance

Basic dynamic load rating	302 kN
Basic static load rating	750 kN
Limiting speed	1 700 r/min
Reference speed	1 200 r/min

Properties

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



Technical Specification



Dimensions

d	80 mm	Bore diameter
D	170 mm	Outside diameter
H	68 mm	Height
d_1	≈ 170 mm	Outside diameter shaft washer
D_1	≈ 83 mm	Inner diameter housing washer
$r_{1,2}$	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 133 mm	Abutment diameter shaft
D_a	max. 117 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	302 kN
Basic static load rating	C_0	750 kN
Fatigue load limit	P_u	25 kN
Reference speed		1 200 r/min
Limiting speed		1 700 r/min
Minimum load factor	A	2.3

51417 M

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	85 mm
Height	72 mm
Outside diameter	180 mm

Performance

Basic dynamic load rating	286 kN
Basic static load rating	750 kN
Limiting speed	1 600 r/min
Reference speed	1 200 r/min

Properties

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



Technical Specification



Dimensions

d	85 mm	Bore diameter
D	180 mm	Outside diameter
H	72 mm	Height
d ₁	≈ 177 mm	Outside diameter shaft washer
D ₁	≈ 88 mm	Inner diameter housing washer
r _{1,2}	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 141 mm	Abutment diameter shaft
D _a	max. 124 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	286 kN
Basic static load rating	C ₀	750 kN
Fatigue load limit	P _u	24 kN
Reference speed		1 200 r/min
Limiting speed		1 600 r/min
Minimum load factor	A	2.9

51418 M

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

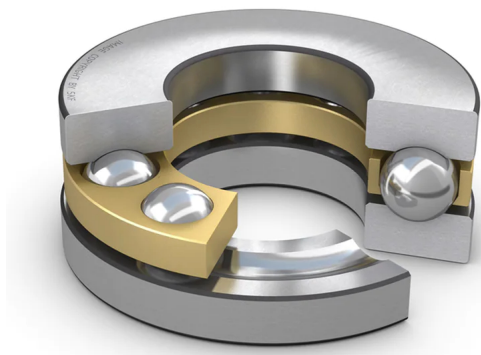
Bore diameter	90 mm
Height	77 mm
Outside diameter	190 mm

Performance

Basic dynamic load rating	307 kN
Basic static load rating	815 kN
Limiting speed	1 500 r/min
Reference speed	1 100 r/min

Properties

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

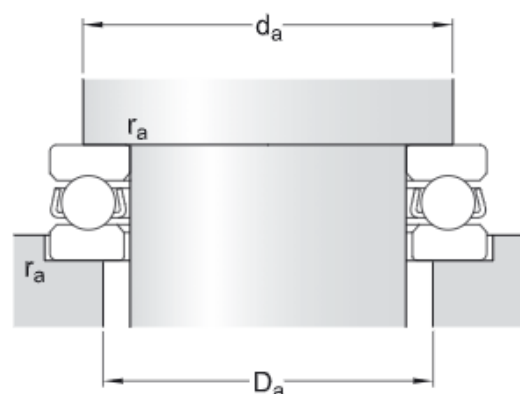


Technical Specification



Dimensions

d	90 mm	Bore diameter
D	190 mm	Outside diameter
H	77 mm	Height
d_1	≈ 187 mm	Outside diameter shaft washer
D_1	≈ 93 mm	Inner diameter housing washer
$r_{1,2}$	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 149 mm	Abutment diameter shaft
D_a	max. 131 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	307 kN
Basic static load rating	C_0	815 kN
Fatigue load limit	P_u	25.5 kN
Reference speed		1 100 r/min
Limiting speed		1 500 r/min
Minimum load factor	A	3.5

51420 M

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	100 mm
Height	85 mm
Outside diameter	210 mm

Performance

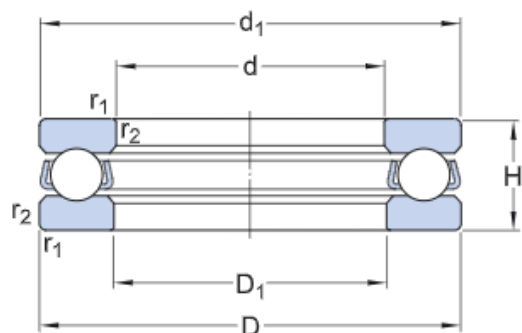
Basic dynamic load rating	371 kN
Basic static load rating	1 060 kN
Limiting speed	1 400 r/min
Reference speed	950 r/min

Properties

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



Technical Specification



Dimensions

d	100 mm	Bore diameter
D	210 mm	Outside diameter
H	85 mm	Height
d_1	≈ 205 mm	Outside diameter shaft washer
D_1	≈ 103 mm	Inner diameter housing washer
$r_{1,2}$	min. 3 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 165 mm	Abutment diameter shaft
D_a	max. 145 mm	Abutment diameter housing
r_a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	371 kN
Basic static load rating	C_0	1 060 kN
Fatigue load limit	P_u	31.5 kN
Reference speed		950 r/min
Limiting speed		1 400 r/min
Minimum load factor	A	5.8

53202

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	15 mm
Height	13.3 mm
Outside diameter	32 mm
Radius of aligning surface	28 mm

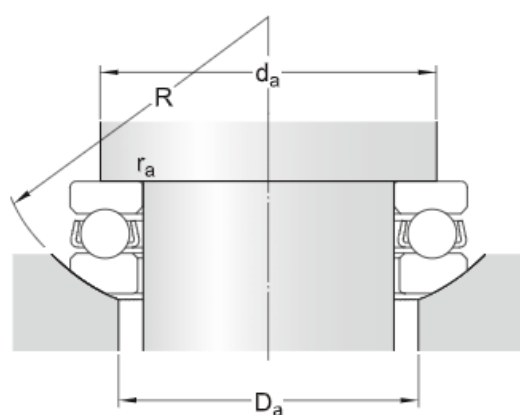
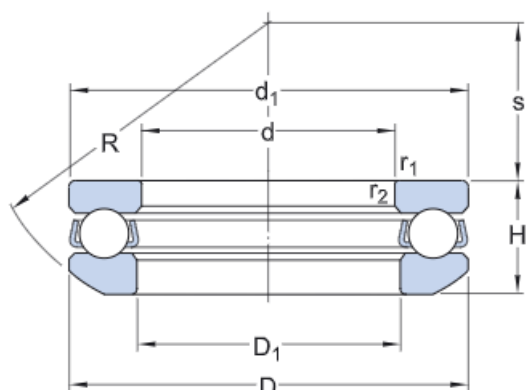
Performance

Basic dynamic load rating	15.9 kN
Basic static load rating	25 kN
Limiting speed	10 000 r/min
Reference speed	7 000 r/min

Properties

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

Technical Specification

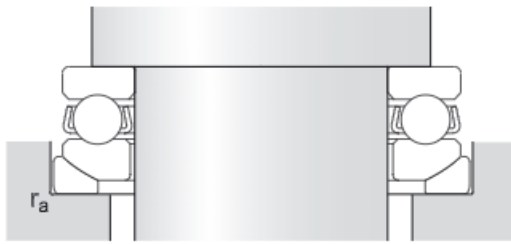


Dimensions

d	15 mm	Bore diameter
D	32 mm	Outside diameter
H	13.3 mm	Height
H ₁	15 mm	Height bearing including seat washer
d ₁	≈ 32 mm	Outside diameter shaft washer
D ₁	≈ 17 mm	Inner diameter housing washer
D ₂	24 mm	Inner diameter sphered seat washer
D ₃	35 mm	Outside diameter sphered housing washer
C	4 mm	Height sphered housing washer
R	28 mm	Radius sphered housing washer
s	12 mm	Centre height housing washer sphere
r _{1,2}	min. 0.6 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 25 mm	Abutment diameter shaft
D _a	max. 24 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	15.9 kN
Basic static load rating	C ₀	25 kN
Fatigue load limit	P _u	0.915 kN
Reference speed		7 000 r/min
Limiting speed		10 000 r/min
Minimum load factor	A	0.0038

Mass

Mass bearing (including seat washer where applicable)	0.063 kg
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Associated products

Seat washer	U 202
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53203

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	17 mm
Height	13.2 mm
Outside diameter	35 mm
Radius of aligning surface	32 mm

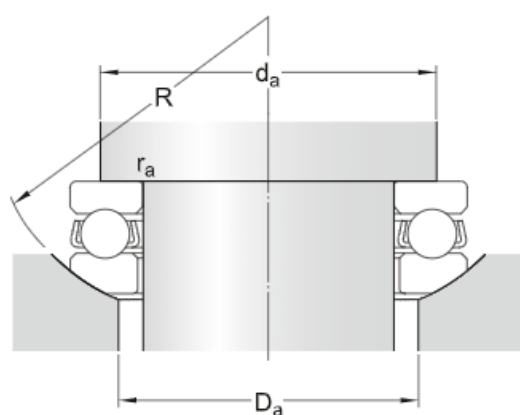
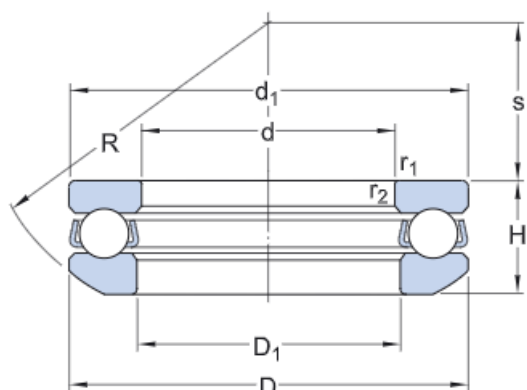
Performance

Basic dynamic load rating	16.3 kN
Basic static load rating	27 kN
Limiting speed	9 500 r/min
Reference speed	6 700 r/min

Properties

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

Technical Specification

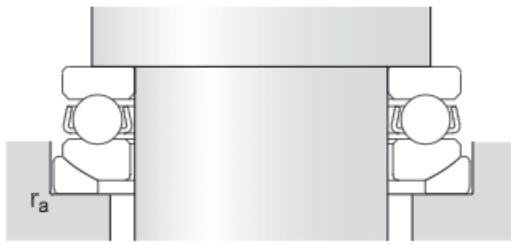


Dimensions

d	17 mm	Bore diameter
D	35 mm	Outside diameter
H	13.2 mm	Height
H ₁	15 mm	Height bearing including seat washer
d ₁	≈ 35 mm	Outside diameter shaft washer
D ₁	≈ 19 mm	Inner diameter housing washer
D ₂	26 mm	Inner diameter sphered seat washer
D ₃	38 mm	Outside diameter sphered housing washer
C	4 mm	Height sphered housing washer
R	32 mm	Radius sphered housing washer
s	16 mm	Centre height housing washer sphere
r _{1,2}	min. 0.6 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 28 mm	Abutment diameter shaft
D _a	max. 26 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	16.3 kN
Basic static load rating	C ₀	27 kN
Fatigue load limit	P _u	1 kN
Reference speed		6 700 r/min
Limiting speed		9 500 r/min
Minimum load factor	A	0.0047

Mass

Mass bearing (including seat washer where applicable)	0.071 kg
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Associated products

Seat washer	U 203
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53204



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	20 mm
Height	14.7 mm
Outside diameter	40 mm
Radius of aligning surface	36 mm

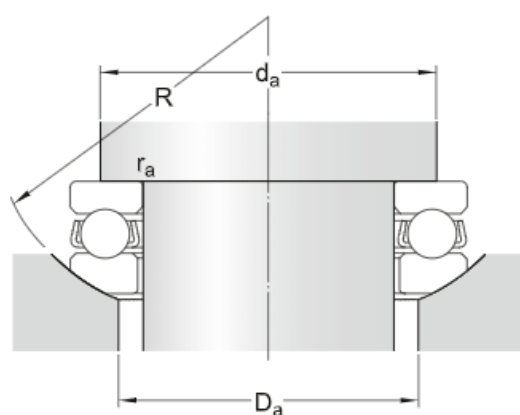
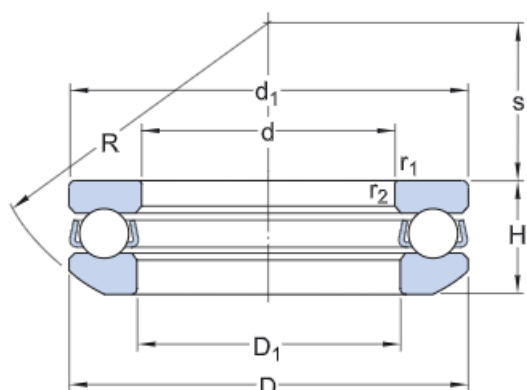
Performance

Basic dynamic load rating	21.2 kN
Basic static load rating	37.5 kN
Limiting speed	8 000 r/min
Reference speed	5 600 r/min

Properties

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

Technical Specification

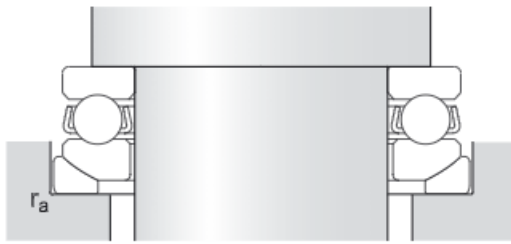


Dimensions

d	20 mm	Bore diameter
D	40 mm	Outside diameter
H	14.7 mm	Height
H ₁	17 mm	Height bearing including seat washer
d ₁	≈ 40 mm	Outside diameter shaft washer
D ₁	≈ 22 mm	Inner diameter housing washer
D ₂	30 mm	Inner diameter sphered seat washer
D ₃	42 mm	Outside diameter sphered housing washer
C	5 mm	Height sphered housing washer
R	36 mm	Radius sphered housing washer
s	18 mm	Centre height housing washer sphere
r _{1,2}	min. 0.6 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 32 mm	Abutment diameter shaft
D _a	max. 30 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	21.2 kN
Basic static load rating	C ₀	37.5 kN
Fatigue load limit	P _u	1.4 kN
Reference speed		5 600 r/min
Limiting speed		8 000 r/min
Minimum load factor	A	0.0085

Mass

Mass bearing (including seat washer where applicable)	0.1 kg
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Associated products

Seat washer	U 204
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53205

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	25 mm
Height	16.7 mm
Outside diameter	47 mm
Radius of aligning surface	40 mm

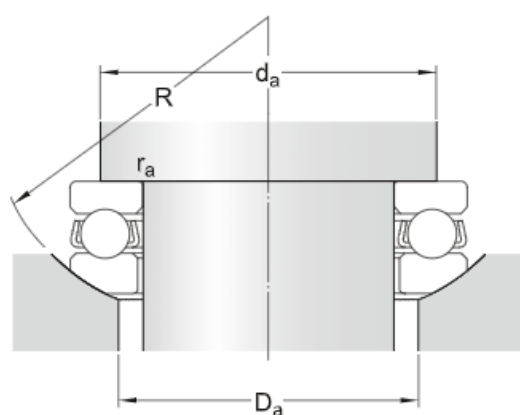
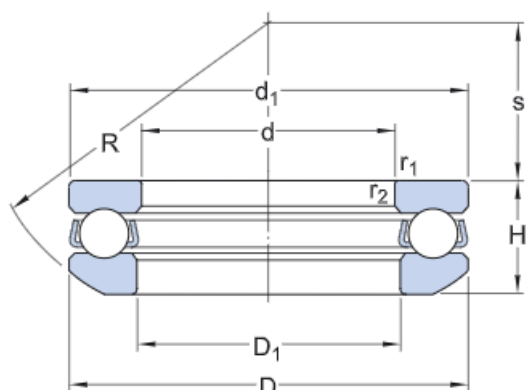
Performance

Basic dynamic load rating	26.5 kN
Basic static load rating	50 kN
Limiting speed	7 000 r/min
Reference speed	5 000 r/min

Properties

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

Technical Specification

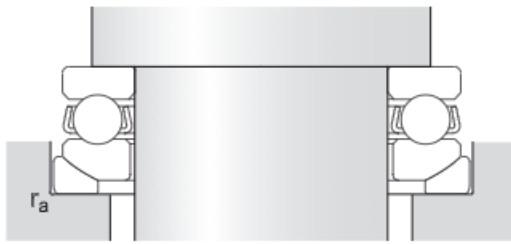


Dimensions

d	25 mm	Bore diameter
D	47 mm	Outside diameter
H	16.7 mm	Height
H ₁	19 mm	Height bearing including seat washer
d ₁	≈ 47 mm	Outside diameter shaft washer
D ₁	≈ 27 mm	Inner diameter housing washer
D ₂	36 mm	Inner diameter sphered seat washer
D ₃	50 mm	Outside diameter sphered housing washer
C	5.5 mm	Height sphered housing washer
R	40 mm	Radius sphered housing washer
s	19 mm	Centre height housing washer sphere
r _{1,2}	min. 0.6 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 38 mm	Abutment diameter shaft
D _a	max. 36 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	26.5 kN
Basic static load rating	C_0	50 kN
Fatigue load limit	P_u	1.86 kN
Reference speed		5 000 r/min
Limiting speed		7 000 r/min
Minimum load factor	A	0.015

Mass

Mass bearing (including seat washer where applicable)	0.15 kg
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Associated products

Seat washer	U 205
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53206

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	30 mm
Height	17.8 mm
Outside diameter	52 mm
Radius of aligning surface	45 mm

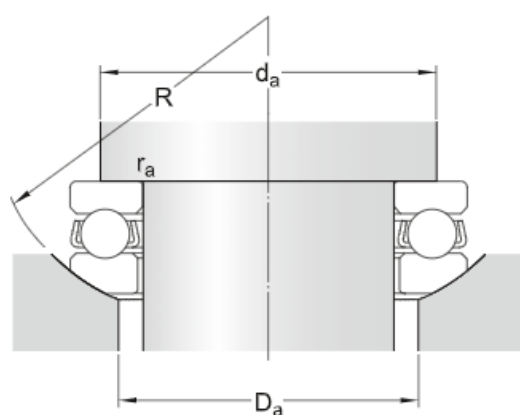
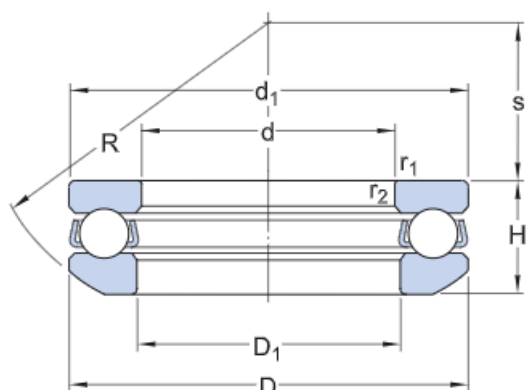
Performance

Basic dynamic load rating	25.1 kN
Basic static load rating	51 kN
Limiting speed	6 300 r/min
Reference speed	4 500 r/min

Properties

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

Technical Specification

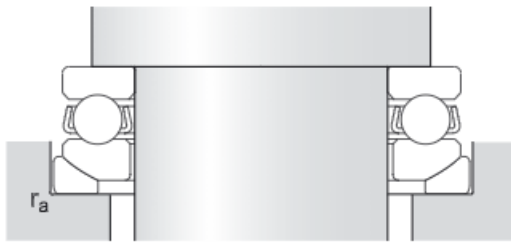


Dimensions

d	30 mm	Bore diameter
D	52 mm	Outside diameter
H	17.8 mm	Height
H ₁	20 mm	Height bearing including seat washer
d ₁	≈ 52 mm	Outside diameter shaft washer
D ₁	≈ 32 mm	Inner diameter housing washer
D ₂	42 mm	Inner diameter sphered seat washer
D ₃	55 mm	Outside diameter sphered housing washer
C	5.5 mm	Height sphered housing washer
R	45 mm	Radius sphered housing washer
s	22 mm	Centre height housing washer sphere
r _{1,2}	min. 0.6 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 43 mm	Abutment diameter shaft
D _a	max. 42 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	25.1 kN
Basic static load rating	C_0	51 kN
Fatigue load limit	P_u	1.86 kN
Reference speed		4 500 r/min
Limiting speed		6 300 r/min
Minimum load factor	A	0.013

Mass

Mass bearing (including seat washer where applicable)	0.18 kg
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Associated products

Seat washer	U 206
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53207



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	35 mm
Height	19.9 mm
Outside diameter	62 mm
Radius of aligning surface	50 mm

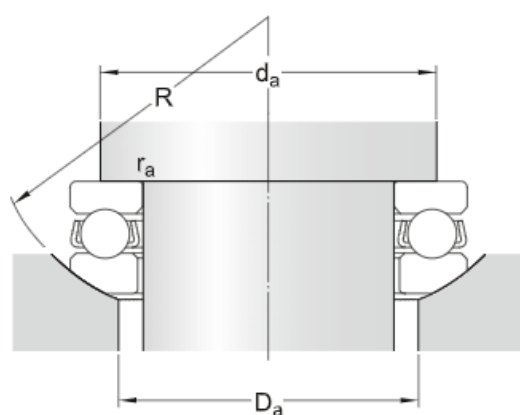
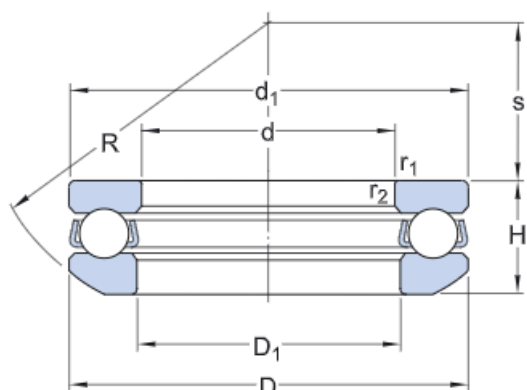
Performance

Basic dynamic load rating	35.1 kN
Basic static load rating	73.5 kN
Limiting speed	5 600 r/min
Reference speed	4 000 r/min

Properties

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

Technical Specification

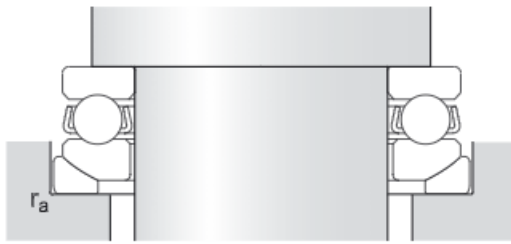


Dimensions

d	35 mm	Bore diameter
D	62 mm	Outside diameter
H	19.9 mm	Height
H ₁	22 mm	Height bearing including seat washer
d ₁	≈ 62 mm	Outside diameter shaft washer
D ₁	≈ 37 mm	Inner diameter housing washer
D ₂	48 mm	Inner diameter sphered seat washer
D ₃	65 mm	Outside diameter sphered housing washer
C	7 mm	Height sphered housing washer
R	50 mm	Radius sphered housing washer
s	24 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 51 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	35.1 kN
Basic static load rating	C_0	73.5 kN
Fatigue load limit	P_u	2.7 kN
Reference speed		4 000 r/min
Limiting speed		5 600 r/min
Minimum load factor	A	0.028

Mass

Mass bearing (including seat washer where applicable)	0.28 kg
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Associated products

Seat washer	U 207
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53208

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
Height	20.3 mm
Outside diameter	68 mm
Radius of aligning surface	56 mm

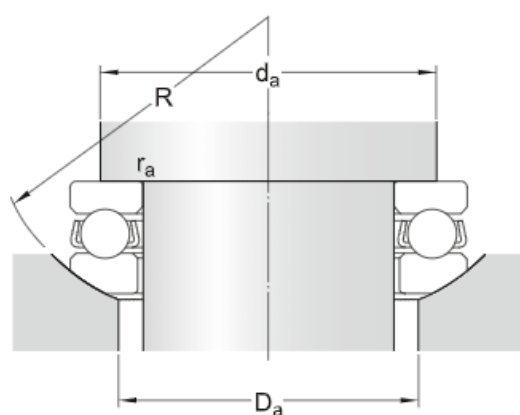
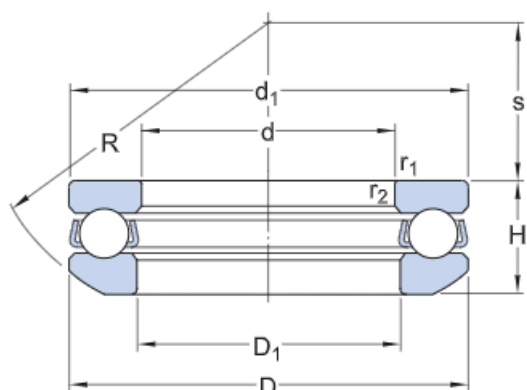
Performance

Basic dynamic load rating	44.2 kN
Basic static load rating	96.5 kN
Limiting speed	5 300 r/min
Reference speed	3 600 r/min

Properties

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

Technical Specification

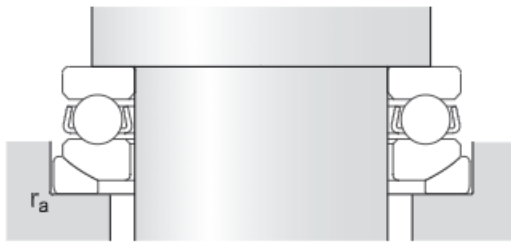


Dimensions

d	40 mm	Bore diameter
D	68 mm	Outside diameter
H	20.3 mm	Height
H ₁	23 mm	Height bearing including seat washer
d ₁	≈ 68 mm	Outside diameter shaft washer
D ₁	≈ 42 mm	Inner diameter housing washer
D ₂	55 mm	Inner diameter sphered seat washer
D ₃	72 mm	Outside diameter sphered housing washer
C	7 mm	Height sphered housing washer
R	56 mm	Radius sphered housing washer
s	28.5 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 57 mm	Abutment diameter shaft
D _a	max. 55 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	44.2 kN
Basic static load rating	C_0	96.5 kN
Fatigue load limit	P_u	3.6 kN
Reference speed		3 600 r/min
Limiting speed		5 300 r/min
Minimum load factor	A	0.058

Mass

Mass bearing (including seat washer where applicable)	0.35 kg
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Associated products

Seat washer	U 208
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53209

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	45 mm
Height	21.3 mm
Outside diameter	73 mm
Radius of aligning surface	56 mm

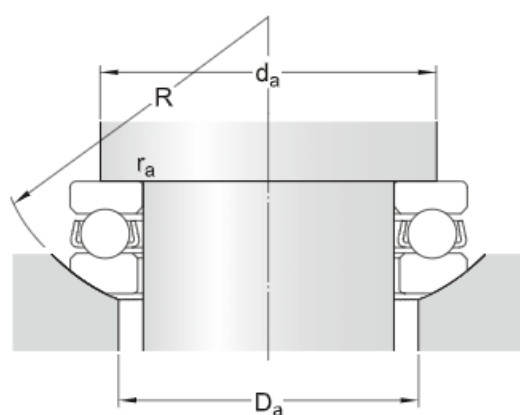
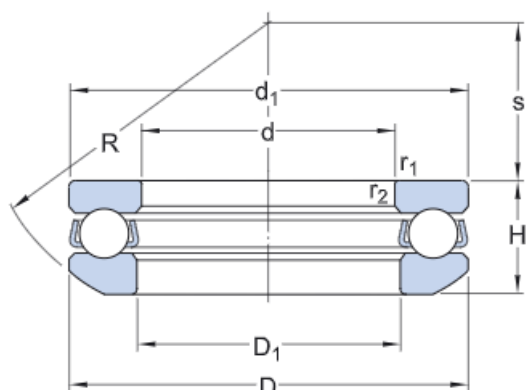
Performance

Basic dynamic load rating	39 kN
Basic static load rating	86.5 kN
Limiting speed	4 800 r/min
Reference speed	3 400 r/min

Properties

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

Technical Specification

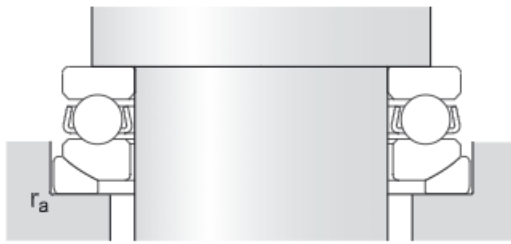


Dimensions

d	45 mm	Bore diameter
D	73 mm	Outside diameter
H	21.3 mm	Height
H ₁	24 mm	Height bearing including seat washer
d ₁	≈ 73 mm	Outside diameter shaft washer
D ₁	≈ 47 mm	Inner diameter housing washer
D ₂	60 mm	Inner diameter sphered seat washer
D ₃	78 mm	Outside diameter sphered housing washer
C	7.5 mm	Height sphered housing washer
R	56 mm	Radius sphered housing washer
s	26 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 62 mm	Abutment diameter shaft
D _a	max. 60 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	39 kN
Basic static load rating	C_0	86.5 kN
Fatigue load limit	P_u	3.2 kN
Reference speed		3 400 r/min
Limiting speed		4 800 r/min
Minimum load factor	A	0.038

Mass

Mass bearing (including seat washer where applicable)	0.39 kg
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Associated products

Seat washer	U 209
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53210

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	50 mm
Height	23.5 mm
Outside diameter	78 mm
Radius of aligning surface	64 mm

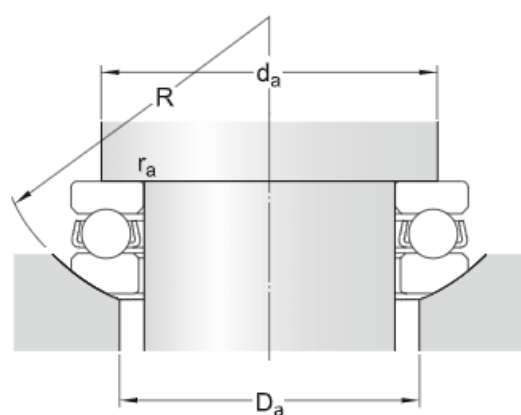
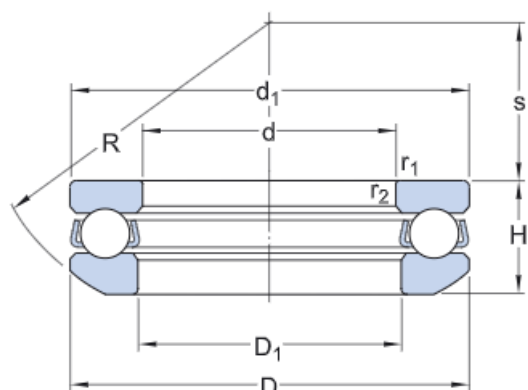
Performance

Basic dynamic load rating	49.4 kN
Basic static load rating	116 kN
Limiting speed	4 500 r/min
Reference speed	3 200 r/min

Properties

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

Technical Specification

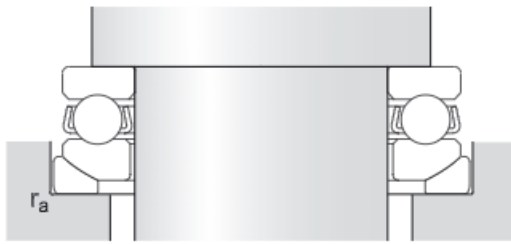


Dimensions

d	50 mm	Bore diameter
D	78 mm	Outside diameter
H	23.5 mm	Height
H ₁	26 mm	Height bearing including seat washer
d ₁	≈ 78 mm	Outside diameter shaft washer
D ₁	≈ 52 mm	Inner diameter housing washer
D ₂	62 mm	Inner diameter sphered seat washer
D ₃	82 mm	Outside diameter sphered housing washer
C	7.5 mm	Height sphered housing washer
R	64 mm	Radius sphered housing washer
s	32.5 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 67 mm	Abutment diameter shaft
D _a	max. 62 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	116 kN
Fatigue load limit	P _u	4.3 kN
Reference speed		3 200 r/min
Limiting speed		4 500 r/min
Minimum load factor	A	0.069

Mass

Mass bearing (including seat washer where applicable)	0.47 kg
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Associated products

Seat washer	U 210
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53211

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	55 mm
Height	27.3 mm
Outside diameter	90 mm
Radius of aligning surface	72 mm

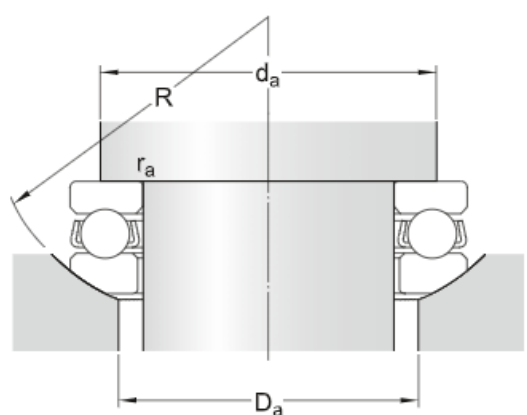
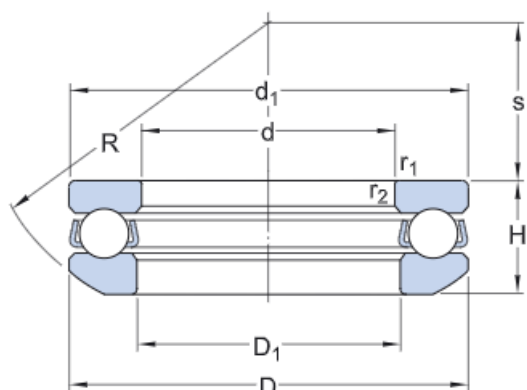
Performance

Basic dynamic load rating	58.5 kN
Basic static load rating	134 kN
Limiting speed	3 800 r/min
Reference speed	2 800 r/min

Properties

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

Technical Specification

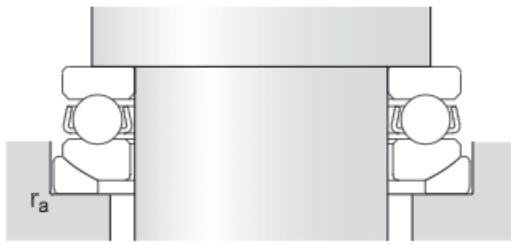


Dimensions

d	55 mm	Bore diameter
D	90 mm	Outside diameter
H	27.3 mm	Height
H ₁	30 mm	Height bearing including seat washer
d ₁	≈ 90 mm	Outside diameter shaft washer
D ₁	≈ 57 mm	Inner diameter housing washer
D ₂	72 mm	Inner diameter sphered seat washer
D ₃	95 mm	Outside diameter sphered housing washer
C	9 mm	Height sphered housing washer
R	72 mm	Radius sphered housing washer
s	35 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 76 mm	Abutment diameter shaft
D _a	max. 72 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	C ₀	134 kN
Fatigue load limit	P _u	4.9 kN
Reference speed		2 800 r/min
Limiting speed		3 800 r/min
Minimum load factor	A	0.11

Mass

Mass bearing (including seat washer where applicable)	0.75 kg
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Associated products

Seat washer	U 211
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53212

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	60 mm
Height	28 mm
Outside diameter	95 mm
Radius of aligning surface	72 mm

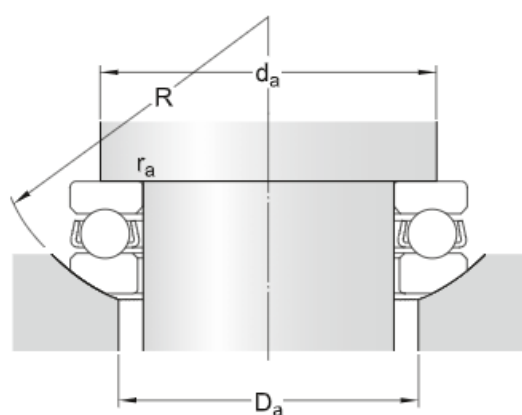
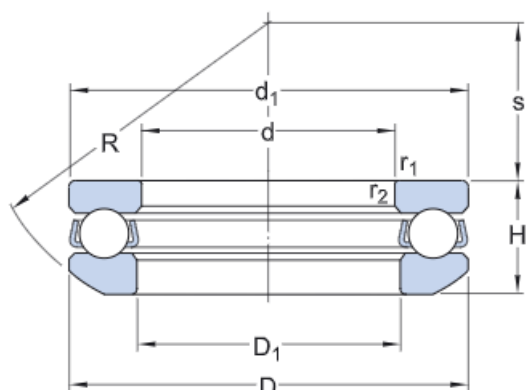
Performance

Basic dynamic load rating	59.2 kN
Basic static load rating	140 kN
Limiting speed	3 600 r/min
Reference speed	2 600 r/min

Properties

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

Technical Specification

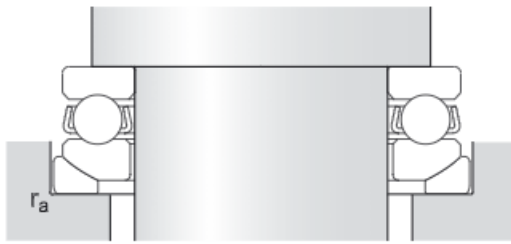


Dimensions

d	60 mm	Bore diameter
D	95 mm	Outside diameter
H	28 mm	Height
H ₁	31 mm	Height bearing including seat washer
d ₁	≈ 95 mm	Outside diameter shaft washer
D ₁	≈ 62 mm	Inner diameter housing washer
D ₂	78 mm	Inner diameter sphered seat washer
D ₃	100 mm	Outside diameter sphered housing washer
C	9 mm	Height sphered housing washer
R	72 mm	Radius sphered housing washer
s	32.5 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 81 mm	Abutment diameter shaft
D _a	max. 78 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	59.2 kN
Basic static load rating	C_0	140 kN
Fatigue load limit	P_u	5.1 kN
Reference speed		2 600 r/min
Limiting speed		3 600 r/min
Minimum load factor	A	0.12

Mass

Mass bearing (including seat washer where applicable)	0.82 kg
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Associated products

Seat washer	U 212
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53213

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	65 mm
Height	28.7 mm
Outside diameter	100 mm
Radius of aligning surface	80 mm

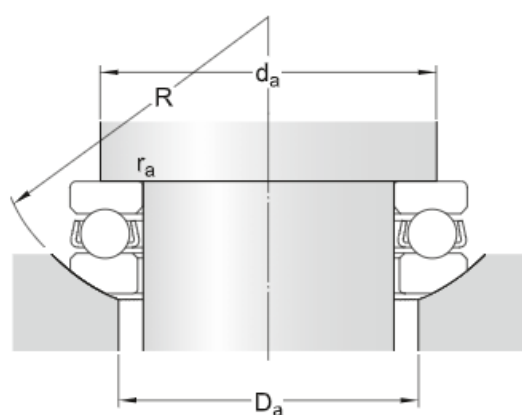
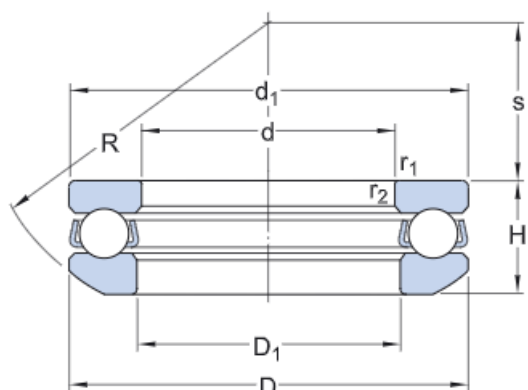
Performance

Basic dynamic load rating	60.5 kN
Basic static load rating	150 kN
Limiting speed	3 600 r/min
Reference speed	2 600 r/min

Properties

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

Technical Specification

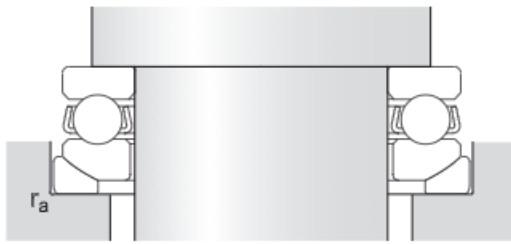


Dimensions

d	65 mm	Bore diameter
D	100 mm	Outside diameter
H	28.7 mm	Height
H ₁	32 mm	Height bearing including seat washer
d ₁	≈ 100 mm	Outside diameter shaft washer
D ₁	≈ 67 mm	Inner diameter housing washer
D ₂	82 mm	Inner diameter sphered seat washer
D ₃	105 mm	Outside diameter sphered housing washer
C	9 mm	Height sphered housing washer
R	80 mm	Radius sphered housing washer
s	40 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 86 mm	Abutment diameter shaft
D _a	max. 82 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	60.5 kN
Basic static load rating	C_0	150 kN
Fatigue load limit	P_u	5.5 kN
Reference speed		2 600 r/min
Limiting speed		3 600 r/min
Minimum load factor	A	0.14

Mass

Mass bearing (including seat washer where applicable)	0.91 kg
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Associated products

Seat washer	U 213
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53214

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	70 mm
Height	28.8 mm
Outside diameter	105 mm
Radius of aligning surface	80 mm

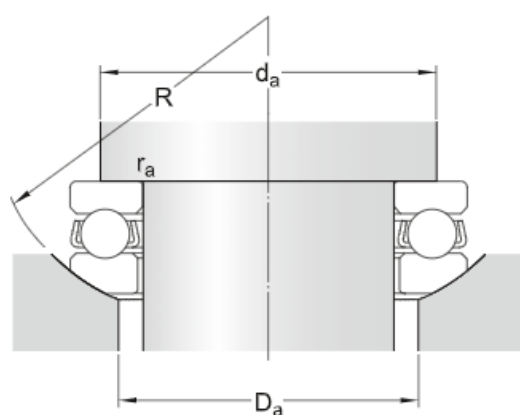
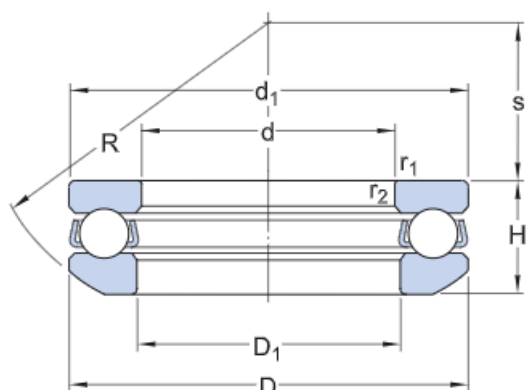
Performance

Basic dynamic load rating	62.4 kN
Basic static load rating	160 kN
Limiting speed	3 600 r/min
Reference speed	2 600 r/min

Properties

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

Technical Specification

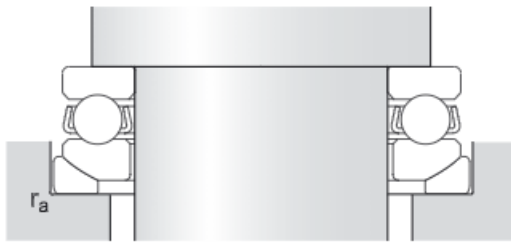


Dimensions

d	70 mm	Bore diameter
D	105 mm	Outside diameter
H	28.8 mm	Height
H ₁	32 mm	Height bearing including seat washer
d ₁	≈ 105 mm	Outside diameter shaft washer
D ₁	≈ 72 mm	Inner diameter housing washer
D ₂	88 mm	Inner diameter sphered seat washer
D ₃	110 mm	Outside diameter sphered housing washer
C	9 mm	Height sphered housing washer
R	80 mm	Radius sphered housing washer
s	38 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 91 mm	Abutment diameter shaft
D _a	max. 88 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	62.4 kN
Basic static load rating	C_0	160 kN
Fatigue load limit	P_u	5.85 kN
Reference speed		2 600 r/min
Limiting speed		3 600 r/min
Minimum load factor	A	0.16

Mass

Mass bearing (including seat washer where applicable)	0.97 kg
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Associated products

Seat washer	U 214
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53215

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	75 mm
Height	28.3 mm
Outside diameter	110 mm
Radius of aligning surface	90 mm

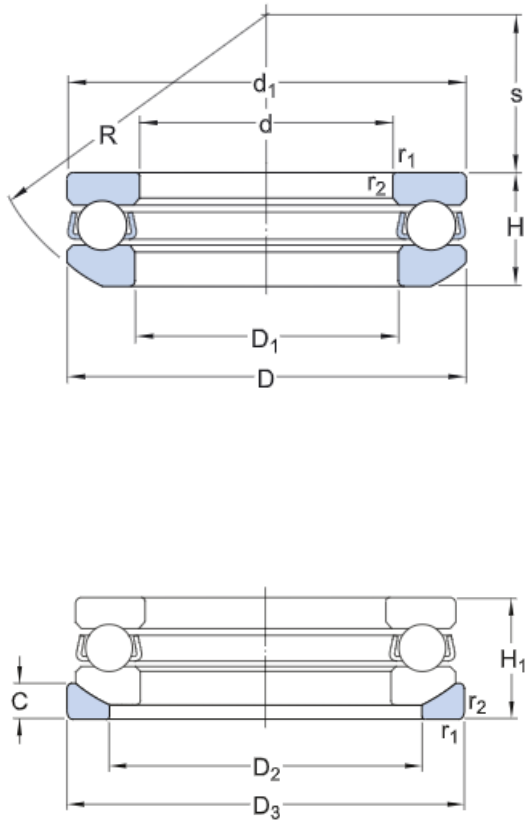
Performance

Basic dynamic load rating	63.7 kN
Basic static load rating	170 kN
Limiting speed	3 400 r/min
Reference speed	2 400 r/min

Properties

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

Technical Specification

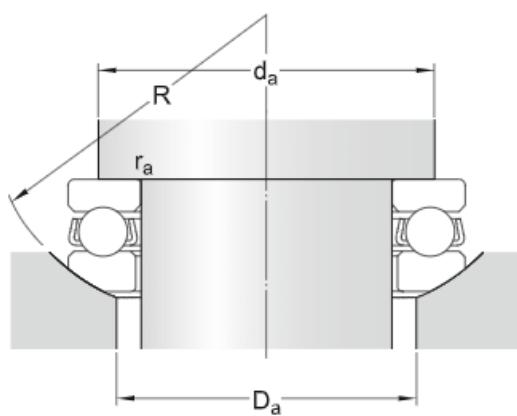


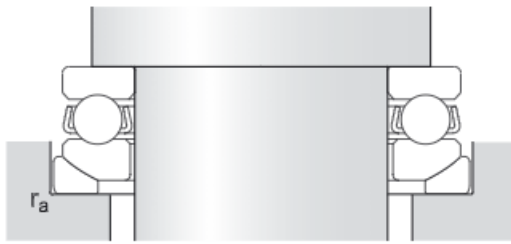
Dimensions

d	75 mm	Bore diameter
D	110 mm	Outside diameter
H	28.3 mm	Height
H ₁	32 mm	Height bearing including seat washer
d ₁	≈ 110 mm	Outside diameter shaft washer
D ₁	≈ 77 mm	Inner diameter housing washer
D ₂	92 mm	Inner diameter sphered seat washer
D ₃	115 mm	Outside diameter sphered housing washer
C	9.5 mm	Height sphered housing washer
R	90 mm	Radius sphered housing washer
s	49 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 96 mm	Abutment diameter shaft
D _a	max. 92 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius





Calculation data

Basic dynamic load rating	C	63.7 kN
Basic static load rating	C_0	170 kN
Fatigue load limit	P_u	6.2 kN
Reference speed		2 400 r/min
Limiting speed		3 400 r/min
Minimum load factor	A	0.17

Mass

Mass bearing (including seat washer where applicable)	1 kg
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Associated products

Seat washer	U 215
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53216

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	80 mm
Height	29.5 mm
Outside diameter	115 mm
Radius of aligning surface	90 mm

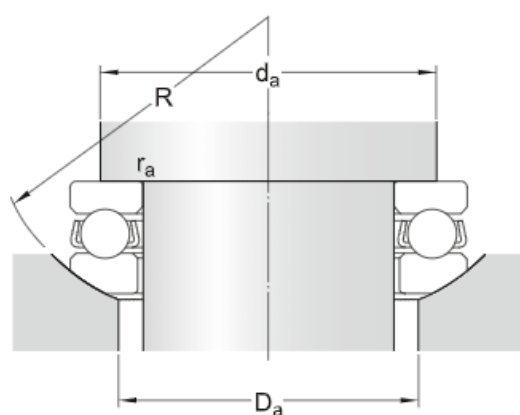
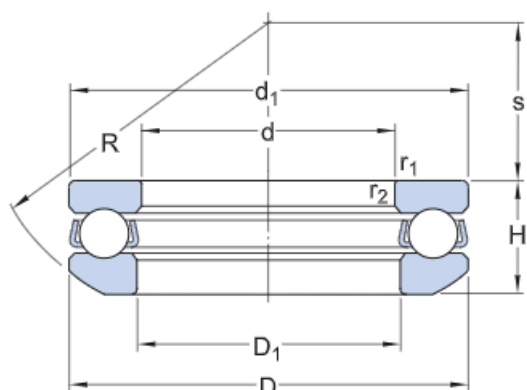
Performance

Basic dynamic load rating	76.1 kN
Basic static load rating	208 kN
Limiting speed	3 200 r/min
Reference speed	2 400 r/min

Properties

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

Technical Specification

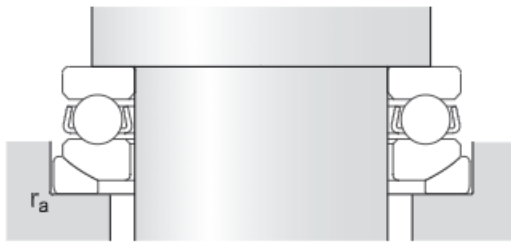


Dimensions

d	80 mm	Bore diameter
D	115 mm	Outside diameter
H	29.5 mm	Height
H ₁	33 mm	Height bearing including seat washer
d ₁	≈ 115 mm	Outside diameter shaft washer
D ₁	≈ 82 mm	Inner diameter housing washer
D ₂	98 mm	Inner diameter sphered seat washer
D ₃	120 mm	Outside diameter sphered housing washer
C	10 mm	Height sphered housing washer
R	90 mm	Radius sphered housing washer
s	46 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 101 mm	Abutment diameter shaft
D _a	max. 98 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	76.1 kN
Basic static load rating	C_0	208 kN
Fatigue load limit	P_u	7.65 kN
Reference speed		2 400 r/min
Limiting speed		3 200 r/min
Minimum load factor	A	0.22

Mass

Mass bearing (including seat washer where applicable)	1.1 kg
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Associated products

Seat washer	U 216
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53217

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	85 mm
Height	33.1 mm
Outside diameter	125 mm
Radius of aligning surface	100 mm

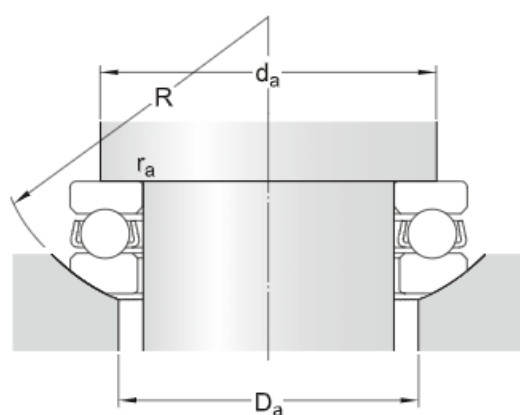
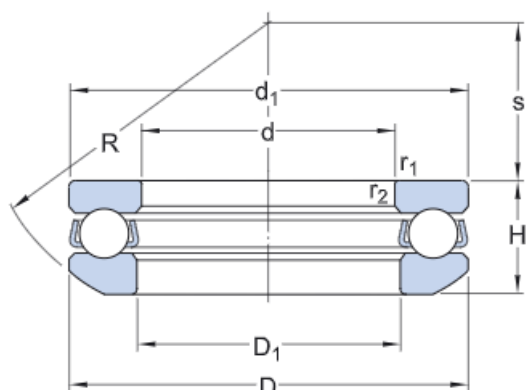
Performance

Basic dynamic load rating	97.5 kN
Basic static load rating	275 kN
Limiting speed	3 000 r/min
Reference speed	2 000 r/min

Properties

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

Technical Specification

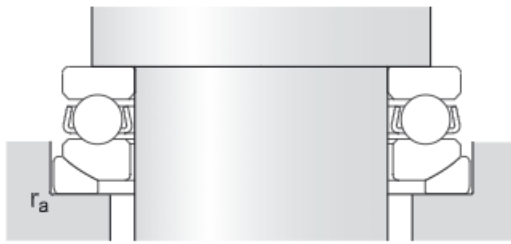


Dimensions

d	85 mm	Bore diameter
D	125 mm	Outside diameter
H	33.1 mm	Height
H ₁	37 mm	Height bearing including seat washer
d ₁	≈ 125 mm	Outside diameter shaft washer
D ₁	≈ 88 mm	Inner diameter housing washer
D ₂	105 mm	Inner diameter sphered seat washer
D ₃	130 mm	Outside diameter sphered housing washer
C	11 mm	Height sphered housing washer
R	100 mm	Radius sphered housing washer
s	52 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 109 mm	Abutment diameter shaft
D _a	max. 105 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	97.5 kN
Basic static load rating	C_0	275 kN
Fatigue load limit	P_u	9 kN
Reference speed		2 000 r/min
Limiting speed		3 000 r/min
Minimum load factor	A	0.39

Mass

Mass bearing (including seat washer where applicable)	1.5 kg
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Associated products

Seat washer	U 217
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53218

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	90 mm
Height	38.5 mm
Outside diameter	135 mm
Radius of aligning surface	100 mm

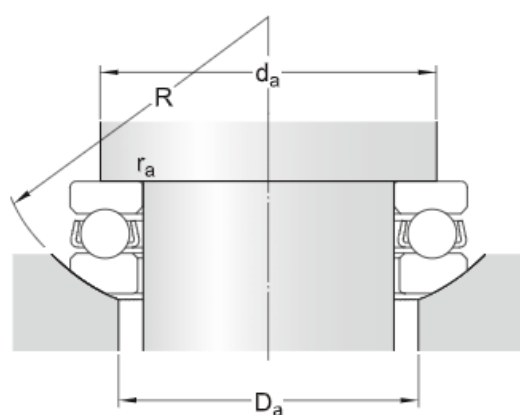
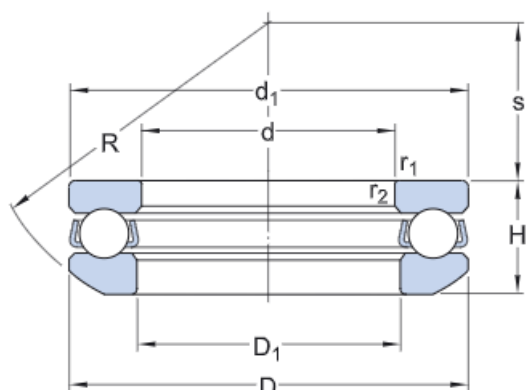
Performance

Basic dynamic load rating	112 kN
Basic static load rating	290 kN
Limiting speed	2 600 r/min
Reference speed	1 900 r/min

Properties

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

Technical Specification

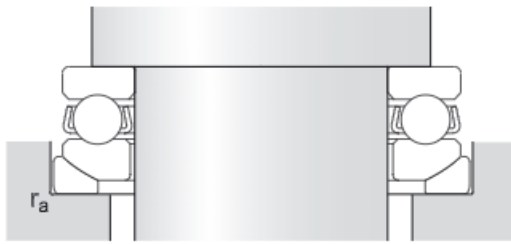


Dimensions

d	90 mm	Bore diameter
D	135 mm	Outside diameter
H	38.5 mm	Height
H ₁	42 mm	Height bearing including seat washer
d ₁	≈ 135 mm	Outside diameter shaft washer
D ₁	≈ 93 mm	Inner diameter housing washer
D ₂	110 mm	Inner diameter sphered seat washer
D ₃	140 mm	Outside diameter sphered housing washer
C	13.5 mm	Height sphered housing washer
R	100 mm	Radius sphered housing washer
s	45 mm	Centre height housing washer sphere
r _{1,2}	min. 1.1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 117 mm	Abutment diameter shaft
D _a	max. 110 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	290 kN
Fatigue load limit	P_u	10.4 kN
Reference speed		1 900 r/min
Limiting speed		2 600 r/min
Minimum load factor	A	0.55

Mass

Mass bearing (including seat washer where applicable)	2.1 kg
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Associated products

Seat washer	U 218
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53220

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	100 mm
Height	40.9 mm
Outside diameter	150 mm
Radius of aligning surface	112 mm

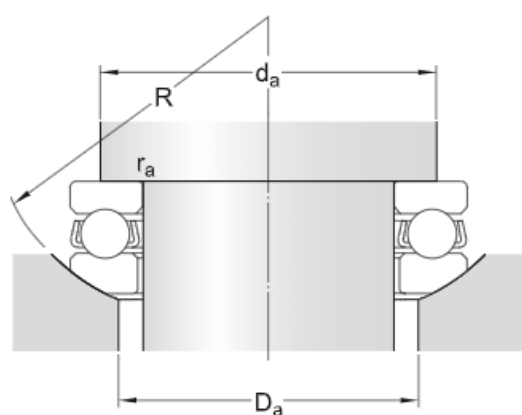
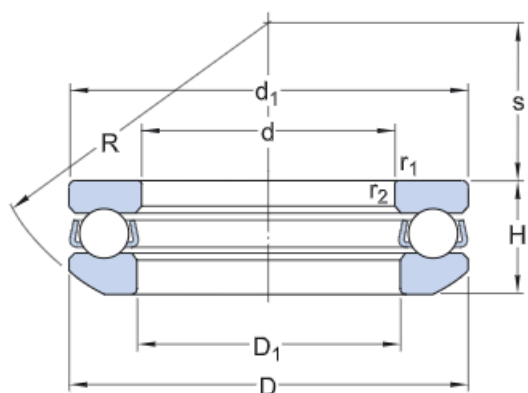
Performance

Basic dynamic load rating	119 kN
Basic static load rating	325 kN
Limiting speed	2 400 r/min
Reference speed	1 700 r/min

Properties

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

Technical Specification

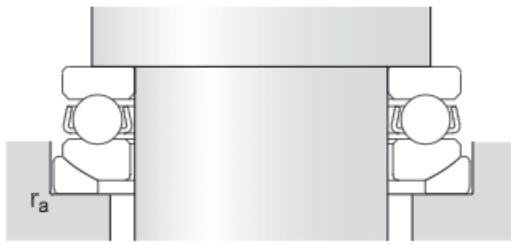


Dimensions

d	100 mm	Bore diameter
D	150 mm	Outside diameter
H	40.9 mm	Height
H ₁	45 mm	Height bearing including seat washer
d ₁	≈ 150 mm	Outside diameter shaft washer
D ₁	≈ 103 mm	Inner diameter housing washer
D ₂	125 mm	Inner diameter sphered seat washer
D ₃	155 mm	Outside diameter sphered housing washer
C	14 mm	Height sphered housing washer
R	112 mm	Radius sphered housing washer
s	52 mm	Centre height housing washer sphere
r _{1,2}	min. 1.1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 130 mm	Abutment diameter shaft
D _a	max. 125 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	119 kN
Basic static load rating	C_0	325 kN
Fatigue load limit	P_u	10.8 kN
Reference speed		1 700 r/min
Limiting speed		2 400 r/min
Minimum load factor	A	0.62

Mass

Mass bearing (including seat washer where applicable)	2.7 kg
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Associated products

Seat washer	U 220
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53222

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	110 mm
Height	40.2 mm
Outside diameter	160 mm
Radius of aligning surface	125 mm

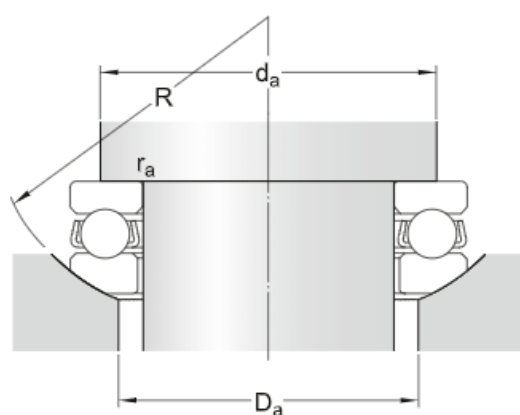
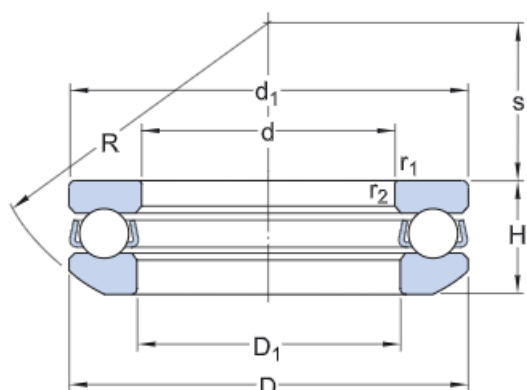
Performance

Basic dynamic load rating	125 kN
Basic static load rating	365 kN
Limiting speed	2 400 r/min
Reference speed	1 700 r/min

Properties

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

Technical Specification

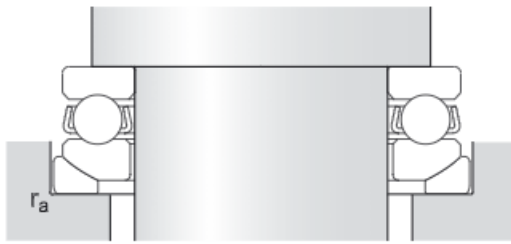


Dimensions

d	110 mm	Bore diameter
D	160 mm	Outside diameter
H	40.2 mm	Height
H ₁	45 mm	Height bearing including seat washer
d ₁	≈ 160 mm	Outside diameter shaft washer
D ₁	≈ 113 mm	Inner diameter housing washer
D ₂	135 mm	Inner diameter sphered seat washer
D ₃	165 mm	Outside diameter sphered housing washer
C	14 mm	Height sphered housing washer
R	125 mm	Radius sphered housing washer
s	65 mm	Centre height housing washer sphere
r _{1,2}	min. 1.1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 140 mm	Abutment diameter shaft
D _a	max. 135 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	125 kN
Basic static load rating	C_0	365 kN
Fatigue load limit	P_u	11.6 kN
Reference speed		1 700 r/min
Limiting speed		2 400 r/min
Minimum load factor	A	0.79

Mass

Mass bearing (including seat washer where applicable)	2.91 kg
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Associated products

Seat washer	U 222
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53226

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	130 mm
Height	47.9 mm
Outside diameter	190 mm
Radius of aligning surface	140 mm

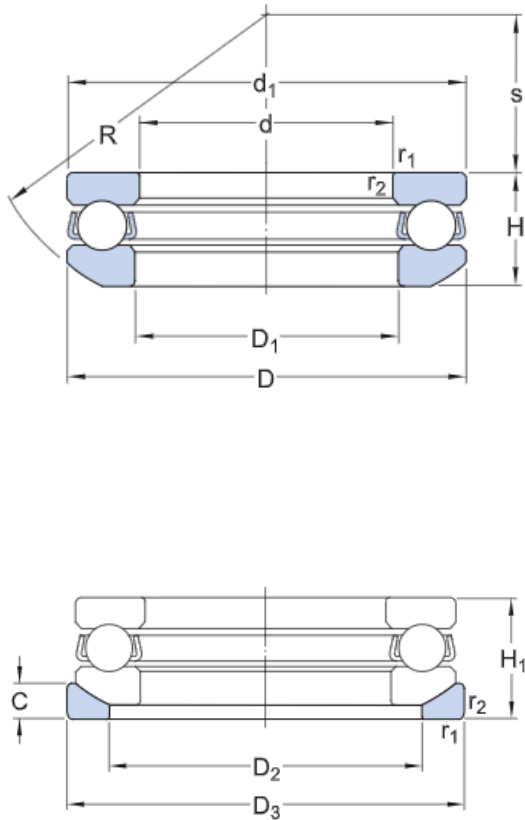
Performance

Basic dynamic load rating	186 kN
Basic static load rating	585 kN
Limiting speed	1 800 r/min
Reference speed	1 300 r/min

Properties

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

Technical Specification

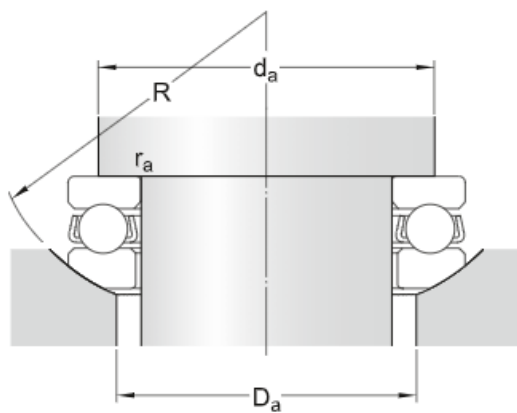


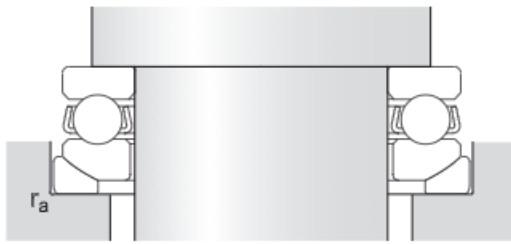
Dimensions

d	130 mm	Bore diameter
D	190 mm	Outside diameter
H	47.9 mm	Height
H ₁	53 mm	Height bearing including seat washer
d ₁	≈ 187 mm	Outside diameter shaft washer
D ₁	≈ 133 mm	Inner diameter housing washer
D ₂	160 mm	Inner diameter sphered seat washer
D ₃	195 mm	Outside diameter sphered housing washer
C	17 mm	Height sphered housing washer
R	140 mm	Radius sphered housing washer
s	67 mm	Centre height housing washer sphere
r _{1,2}	min. 1.5 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 166 mm	Abutment diameter shaft
D _a	max. 160 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius





Calculation data

Basic dynamic load rating	C	186 kN
Basic static load rating	C_0	585 kN
Fatigue load limit	P_u	17 kN
Reference speed		1 300 r/min
Limiting speed		1 800 r/min
Minimum load factor	A	1.8

Mass

Mass bearing (including seat washer where applicable)	4.85 kg
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Associated products

Seat washer	U 226
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53228

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	140 mm
Height	48.6 mm
Outside diameter	200 mm
Radius of aligning surface	160 mm

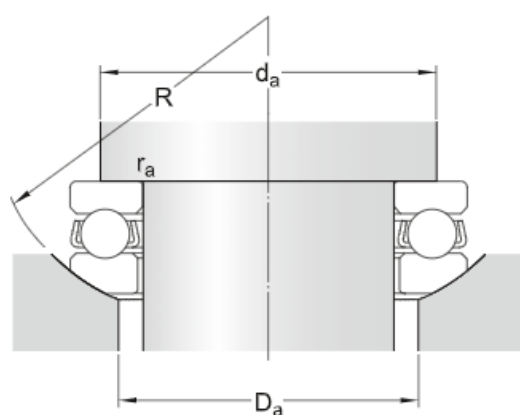
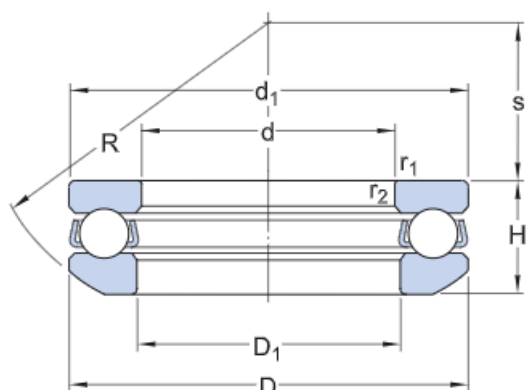
Performance

Basic dynamic load rating	190 kN
Basic static load rating	620 kN
Limiting speed	1 800 r/min
Reference speed	1 300 r/min

Properties

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

Technical Specification

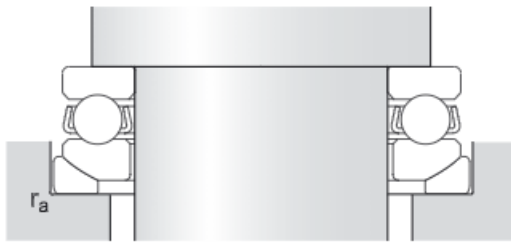


Dimensions

d	140 mm	Bore diameter
D	200 mm	Outside diameter
H	48.6 mm	Height
H ₁	55 mm	Height bearing including seat washer
d ₁	≈ 197 mm	Outside diameter shaft washer
D ₁	≈ 143 mm	Inner diameter housing washer
D ₂	170 mm	Inner diameter sphered seat washer
D ₃	210 mm	Outside diameter sphered housing washer
C	17 mm	Height sphered housing washer
R	160 mm	Radius sphered housing washer
s	87 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 176 mm	Abutment diameter shaft
D _a	max. 170 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	190 kN
Basic static load rating	C_0	620 kN
Fatigue load limit	P_u	17.6 kN
Reference speed		1 300 r/min
Limiting speed		1 800 r/min
Minimum load factor	A	2

Mass

Mass bearing (including seat washer where applicable)	5.45 kg
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Associated products

Seat washer	U 228
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53306

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	30 mm
Height	22.6 mm
Outside diameter	60 mm
Radius of aligning surface	50 mm

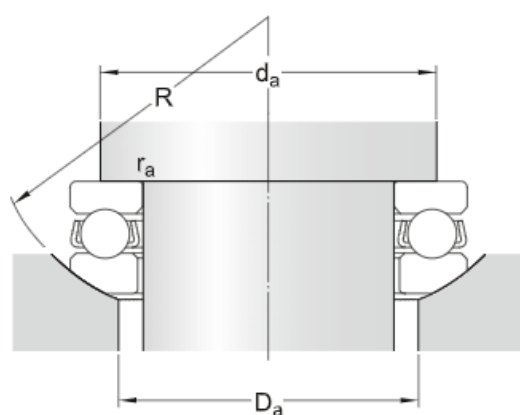
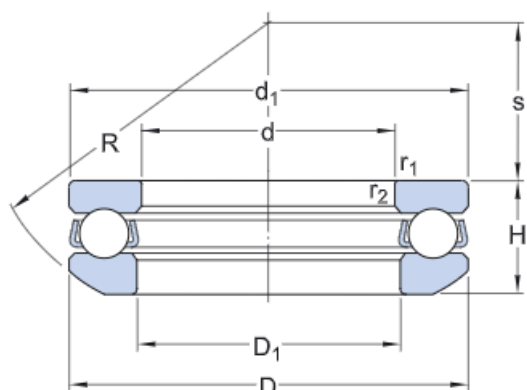
Performance

Basic dynamic load rating	35.8 kN
Basic static load rating	65.5 kN
Limiting speed	5 300 r/min
Reference speed	3 800 r/min

Properties

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

Technical Specification

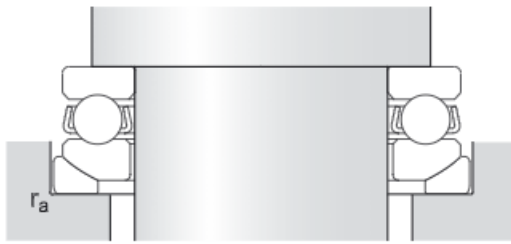


Dimensions

d	30 mm	Bore diameter
D	60 mm	Outside diameter
H	22.6 mm	Height
H ₁	25 mm	Height bearing including seat washer
d ₁	≈ 60 mm	Outside diameter shaft washer
D ₁	≈ 32 mm	Inner diameter housing washer
D ₂	45 mm	Inner diameter sphered seat washer
D ₃	62 mm	Outside diameter sphered housing washer
C	7 mm	Height sphered housing washer
R	50 mm	Radius sphered housing washer
s	22 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 48 mm	Abutment diameter shaft
D _a	max. 45 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	35.8 kN
Basic static load rating	C_0	65.5 kN
Fatigue load limit	P_u	2.4 kN
Reference speed		3 800 r/min
Limiting speed		5 300 r/min
Minimum load factor	A	0.026

Mass

Mass bearing (including seat washer where applicable)	0.33 kg
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Associated products

Seat washer	U 306
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53307

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	35 mm
Height	25.6 mm
Outside diameter	68 mm
Radius of aligning surface	56 mm

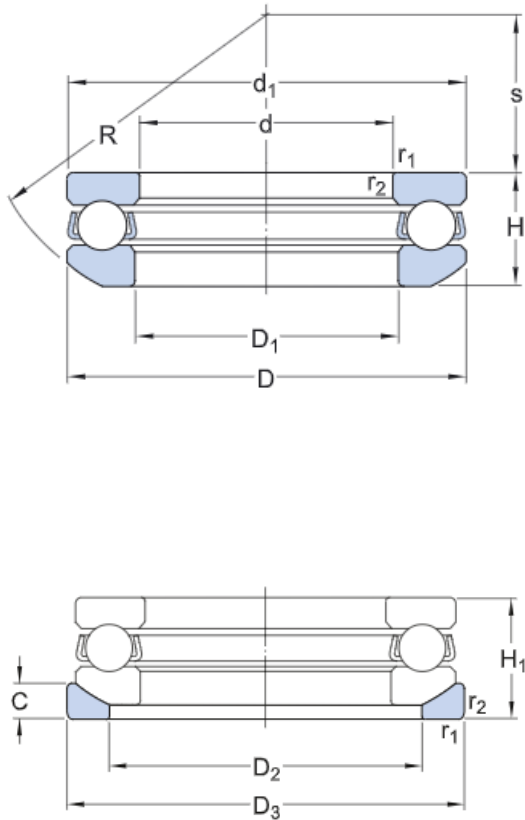
Performance

Basic dynamic load rating	49.4 kN
Basic static load rating	96.5 kN
Limiting speed	4 500 r/min
Reference speed	3 200 r/min

Properties

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

Technical Specification

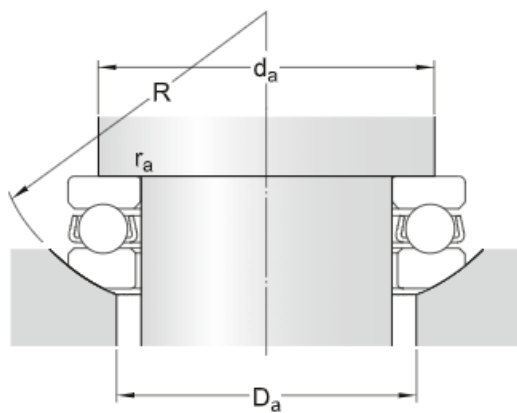


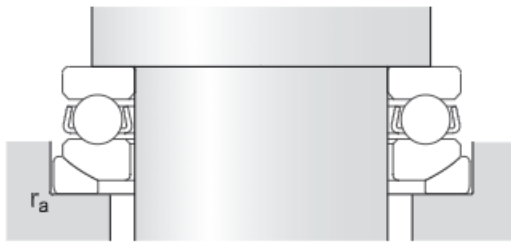
Dimensions

d	35 mm	Bore diameter
D	68 mm	Outside diameter
H	25.6 mm	Height
H ₁	28 mm	Height bearing including seat washer
d ₁	≈ 68 mm	Outside diameter shaft 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
C	7.5 mm	Height sphered housing washer
R	56 mm	Radius sphered housing washer
s	24 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 55 mm	Abutment diameter shaft
D _a	max. 52 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		3 200 r/min
Limiting speed		4 500 r/min
Minimum load factor	A	0.048

Mass

Mass bearing (including seat washer where applicable)	0.46 kg
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Associated products

Seat washer	U 307
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53308

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
Height	28.5 mm
Outside diameter	78 mm
Radius of aligning surface	64 mm

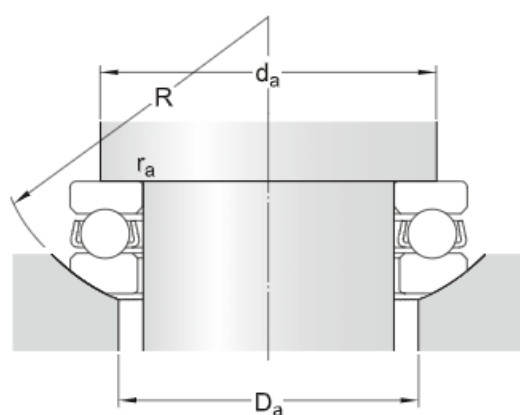
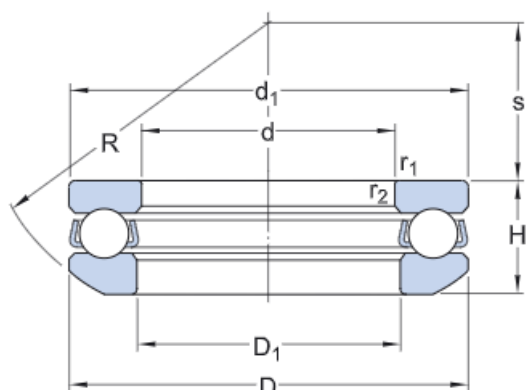
Performance

Basic dynamic load rating	61.8 kN
Basic static load rating	122 kN
Limiting speed	4 000 r/min
Reference speed	2 800 r/min

Properties

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

Technical Specification

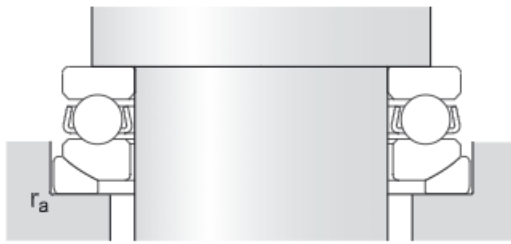


Dimensions

d	40 mm	Bore diameter
D	78 mm	Outside diameter
H	28.5 mm	Height
H ₁	31 mm	Height bearing including seat washer
d ₁	≈ 78 mm	Outside diameter shaft washer
D ₁	≈ 42 mm	Inner diameter housing washer
D ₂	60 mm	Inner diameter sphered seat washer
D ₃	82 mm	Outside diameter sphered housing washer
C	8.5 mm	Height sphered housing washer
R	64 mm	Radius sphered housing washer
s	28 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 63 mm	Abutment diameter shaft
D _a	max. 60 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	61.8 kN
Basic static load rating	C_0	122 kN
Fatigue load limit	P_u	4.5 kN
Reference speed		2 800 r/min
Limiting speed		4 000 r/min
Minimum load factor	A	0.077

Mass

Mass bearing (including seat washer where applicable)	0.67 kg
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Associated products

Seat washer	U 308
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53309

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	45 mm
Height	30.1 mm
Outside diameter	85 mm
Radius of aligning surface	64 mm

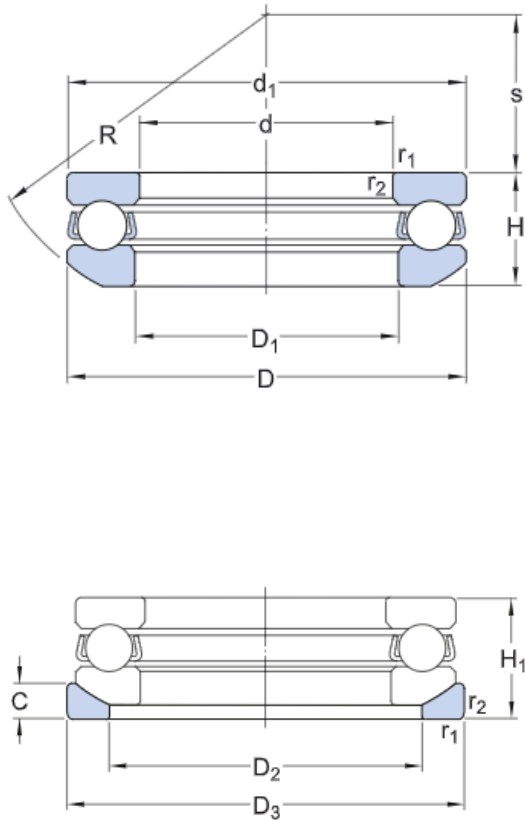
Performance

Basic dynamic load rating	76.1 kN
Basic static load rating	153 kN
Limiting speed	3 800 r/min
Reference speed	2 600 r/min

Properties

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

Technical Specification

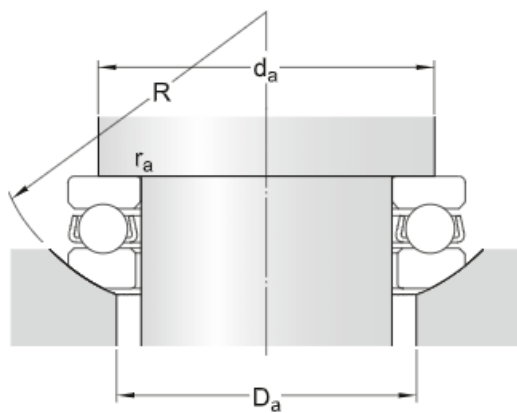


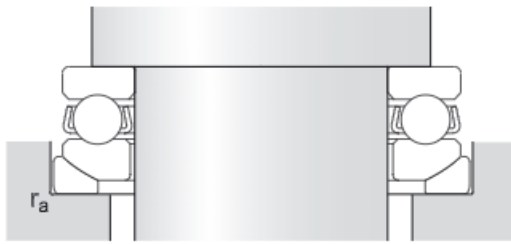
Dimensions

d	45 mm	Bore diameter
D	85 mm	Outside diameter
H	30.1 mm	Height
H ₁	33 mm	Height bearing including seat washer
d ₁	≈ 85 mm	Outside diameter shaft washer
D ₁	≈ 47 mm	Inner diameter housing washer
D ₂	65 mm	Inner diameter sphered seat washer
D ₃	90 mm	Outside diameter sphered housing washer
C	10 mm	Height sphered housing washer
R	64 mm	Radius sphered housing washer
s	25 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 69 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	76.1 kN
Basic static load rating	C_0	153 kN
Fatigue load limit	P_u	5.6 kN
Reference speed		2 600 r/min
Limiting speed		3 800 r/min
Minimum load factor	A	0.12

Mass

Mass bearing (including seat washer where applicable)	0.83 kg
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Associated products

Seat washer	U 309
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53310

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	50 mm
Height	34.3 mm
Outside diameter	95 mm
Radius of aligning surface	72 mm

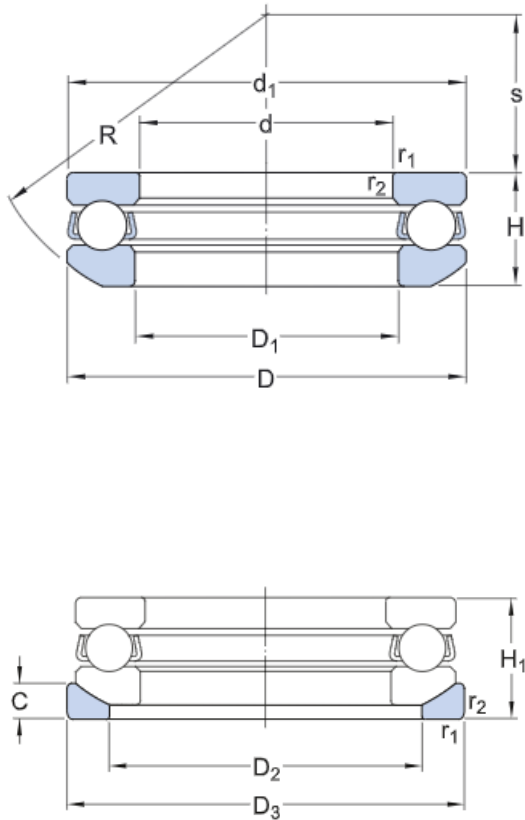
Performance

Basic dynamic load rating	81.9 kN
Basic static load rating	170 kN
Limiting speed	3 400 r/min
Reference speed	2 400 r/min

Properties

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

Technical Specification

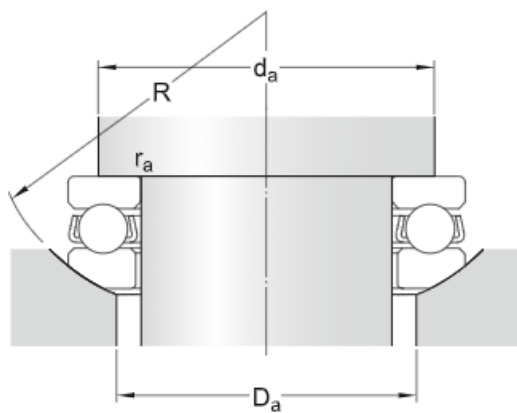


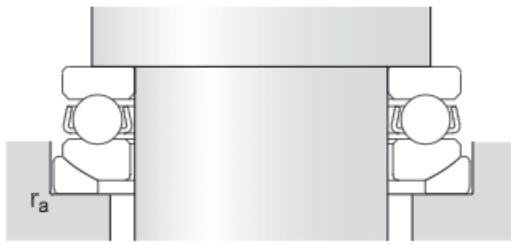
Dimensions

d	50 mm	Bore diameter
D	95 mm	Outside diameter
H	34.3 mm	Height
H ₁	37 mm	Height bearing including seat washer
d ₁	≈ 95 mm	Outside diameter shaft washer
D ₁	≈ 52 mm	Inner diameter housing washer
D ₂	72 mm	Inner diameter sphered seat washer
D ₃	100 mm	Outside diameter sphered housing washer
C	11 mm	Height sphered housing washer
R	72 mm	Radius sphered housing washer
s	28 mm	Centre height housing washer sphere
r _{1,2}	min. 1.1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 77 mm	Abutment diameter shaft
D _a	max. 72 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius





Calculation data

Basic dynamic load rating	C	81.9 kN
Basic static load rating	C_0	170 kN
Fatigue load limit	P_u	6.3 kN
Reference speed		2 400 r/min
Limiting speed		3 400 r/min
Minimum load factor	A	0.19

Mass

Mass bearing (including seat washer where applicable)	1.2 kg
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Associated products

Seat washer	U 310
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53311

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	55 mm
Height	39.3 mm
Outside diameter	105 mm
Radius of aligning surface	80 mm

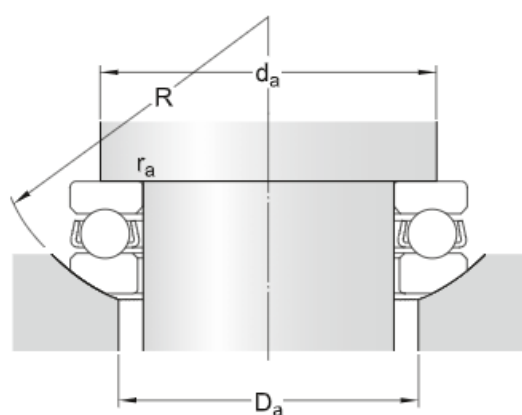
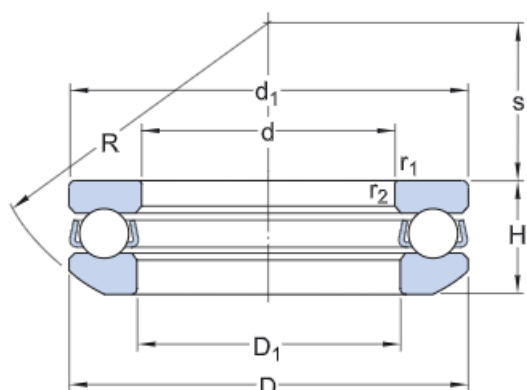
Performance

Basic dynamic load rating	101 kN
Basic static load rating	224 kN
Limiting speed	3 000 r/min
Reference speed	2 200 r/min

Properties

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

Technical Specification

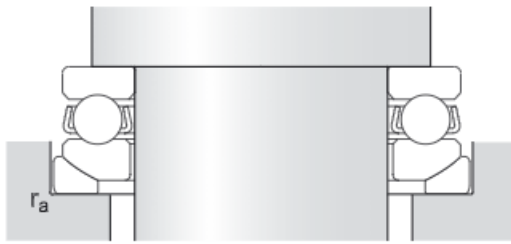


Dimensions

d	55 mm	Bore diameter
D	105 mm	Outside diameter
H	39.3 mm	Height
H ₁	42 mm	Height bearing including seat washer
d ₁	≈ 105 mm	Outside diameter shaft washer
D ₁	≈ 57 mm	Inner diameter housing washer
D ₂	80 mm	Inner diameter sphered seat washer
D ₃	110 mm	Outside diameter sphered housing washer
C	11.5 mm	Height sphered housing washer
R	80 mm	Radius sphered housing washer
s	30 mm	Centre height housing washer sphere
r _{1,2}	min. 1.1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 85 mm	Abutment diameter shaft
D _a	max. 80 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	101 kN
Basic static load rating	C_0	224 kN
Fatigue load limit	P_u	8.3 kN
Reference speed		2 200 r/min
Limiting speed		3 000 r/min
Minimum load factor	A	0.26

Mass

Mass bearing (including seat washer where applicable)	1.68 kg
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Associated products

Seat washer	U 311
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53312

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	60 mm
Height	38.3 mm
Outside diameter	110 mm
Radius of aligning surface	90 mm

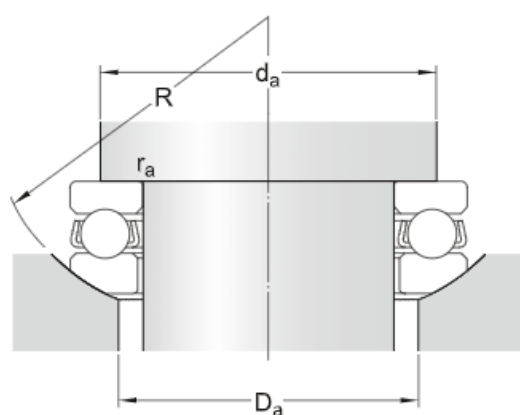
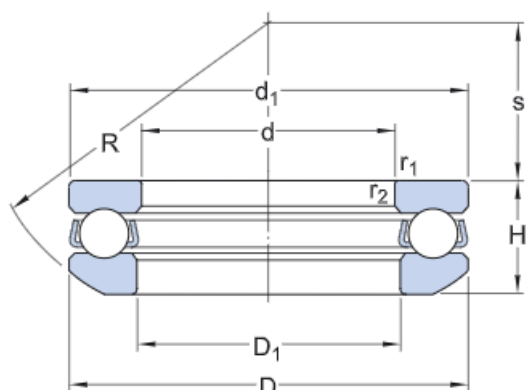
Performance

Basic dynamic load rating	101 kN
Basic static load rating	224 kN
Limiting speed	3 000 r/min
Reference speed	2 000 r/min

Properties

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

Technical Specification

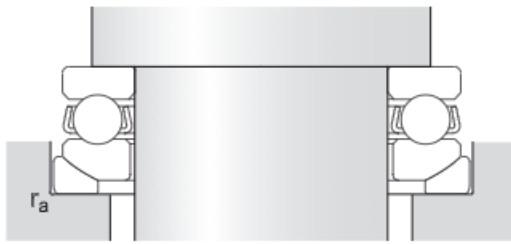


Dimensions

d	60 mm	Bore diameter
D	110 mm	Outside diameter
H	38.3 mm	Height
H ₁	42 mm	Height bearing including seat washer
d ₁	≈ 110 mm	Outside diameter shaft washer
D ₁	≈ 62 mm	Inner diameter housing washer
D ₂	85 mm	Inner diameter sphered seat washer
D ₃	115 mm	Outside diameter sphered housing washer
C	11.5 mm	Height sphered housing washer
R	90 mm	Radius sphered housing washer
s	41 mm	Centre height housing washer sphere
r _{1,2}	min. 1.1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 90 mm	Abutment diameter shaft
D _a	max. 85 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	101 kN
Basic static load rating	C_0	224 kN
Fatigue load limit	P_u	8.3 kN
Reference speed		2 000 r/min
Limiting speed		3 000 r/min
Minimum load factor	A	0.26

Mass

Mass bearing (including seat washer where applicable)	1.71 kg
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Associated products

Seat washer	U 312
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53313

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	65 mm
Height	39.4 mm
Outside diameter	115 mm
Radius of aligning surface	90 mm

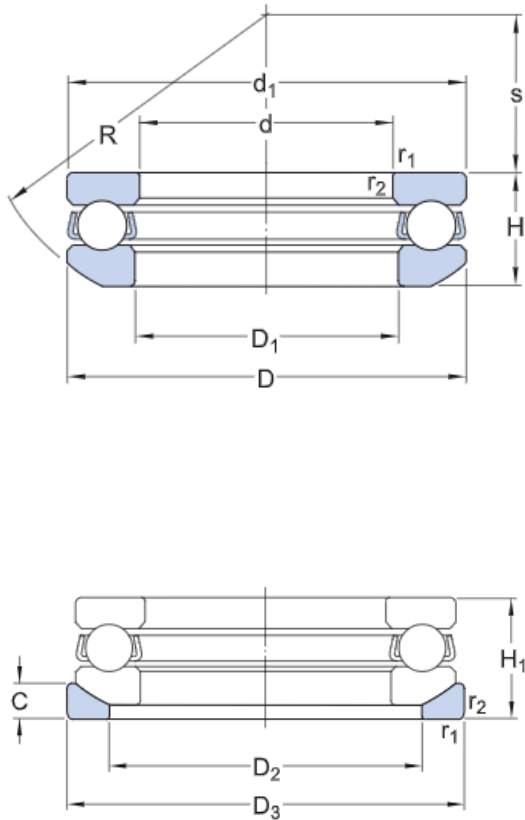
Performance

Basic dynamic load rating	106 kN
Basic static load rating	240 kN
Limiting speed	2 800 r/min
Reference speed	2 000 r/min

Properties

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

Technical Specification

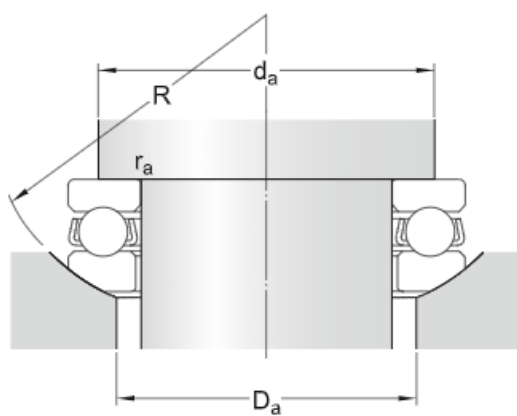


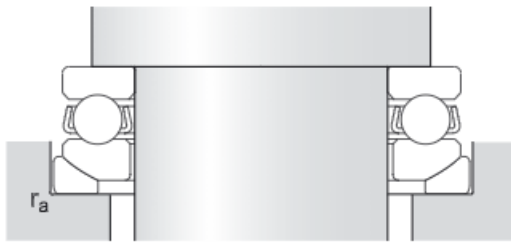
Dimensions

d	65 mm	Bore diameter
D	115 mm	Outside diameter
H	39.4 mm	Height
H ₁	43 mm	Height bearing including seat washer
d ₁	≈ 115 mm	Outside diameter shaft washer
D ₁	≈ 67 mm	Inner diameter housing washer
D ₂	90 mm	Inner diameter sphered seat washer
D ₃	120 mm	Outside diameter sphered housing washer
C	12.5 mm	Height sphered housing washer
R	90 mm	Radius sphered housing washer
s	38.5 mm	Centre height housing washer sphere
r _{1,2}	min. 1.1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 95 mm	Abutment diameter shaft
D _a	max. 90 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius





Calculation data

Basic dynamic load rating	C	106 kN
Basic static load rating	C ₀	240 kN
Fatigue load limit	P _u	8.8 kN
Reference speed		2 000 r/min
Limiting speed		2 800 r/min
Minimum load factor	A	0.3

Mass

Mass bearing (including seat washer where applicable)	1.89 kg
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Associated products

Seat washer	U 313
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53314

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	70 mm
Height	44.2 mm
Outside diameter	125 mm
Radius of aligning surface	100 mm

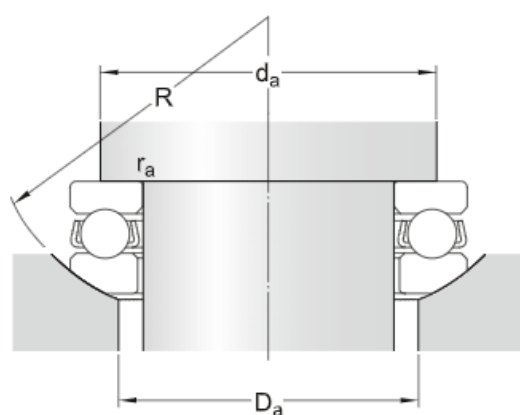
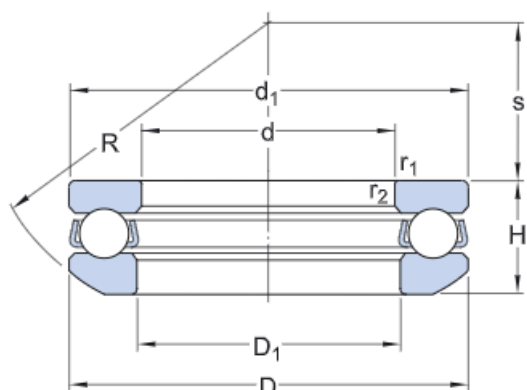
Performance

Basic dynamic load rating	135 kN
Basic static load rating	320 kN
Limiting speed	2 600 r/min
Reference speed	1 800 r/min

Properties

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

Technical Specification

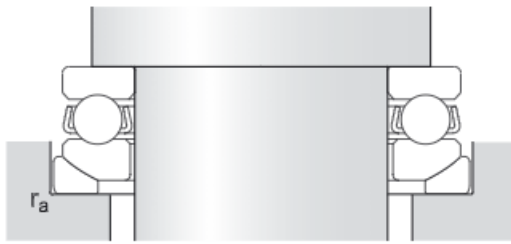


Dimensions

d	70 mm	Bore diameter
D	125 mm	Outside diameter
H	44.2 mm	Height
H ₁	48 mm	Height bearing including seat washer
d ₁	≈ 125 mm	Outside diameter shaft washer
D ₁	≈ 72 mm	Inner diameter housing washer
D ₂	98 mm	Inner diameter sphered seat washer
D ₃	130 mm	Outside diameter sphered housing washer
C	13 mm	Height sphered housing washer
R	100 mm	Radius sphered housing washer
s	43 mm	Centre height housing washer sphere
r _{1,2}	min. 1.1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 103 mm	Abutment diameter shaft
D _a	max. 98 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	135 kN
Basic static load rating	C_0	320 kN
Fatigue load limit	P_u	11.8 kN
Reference speed		1 800 r/min
Limiting speed		2 600 r/min
Minimum load factor	A	0.53

Mass

Mass bearing (including seat washer where applicable)	2.5 kg
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Associated products

Seat washer	U 314
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53315

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	75 mm
Height	48.1 mm
Outside diameter	135 mm
Radius of aligning surface	100 mm

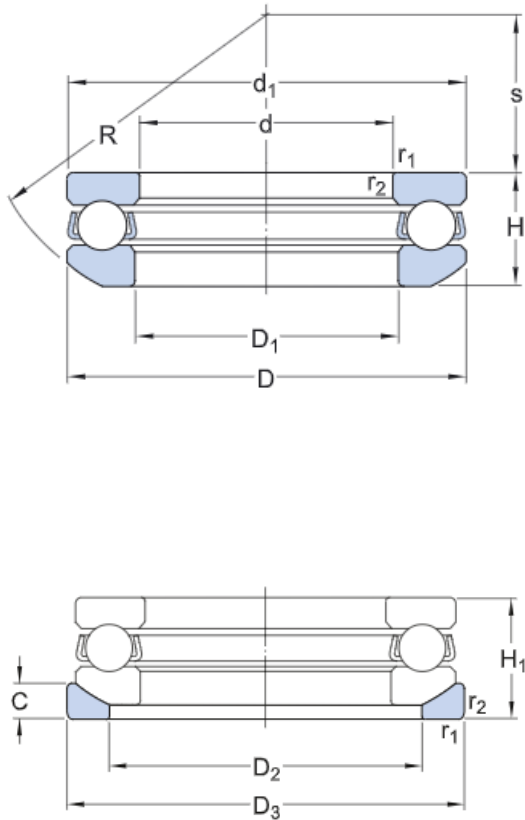
Performance

Basic dynamic load rating	163 kN
Basic static load rating	390 kN
Limiting speed	2 400 r/min
Reference speed	1 700 r/min

Properties

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

Technical Specification

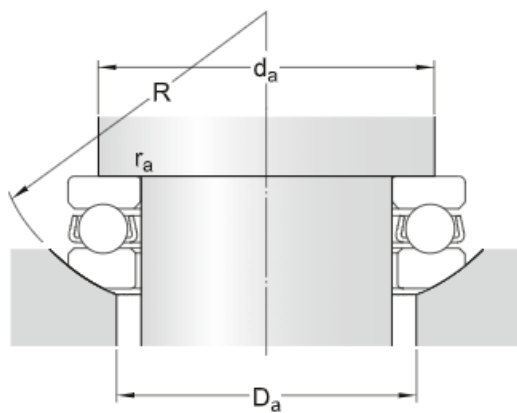


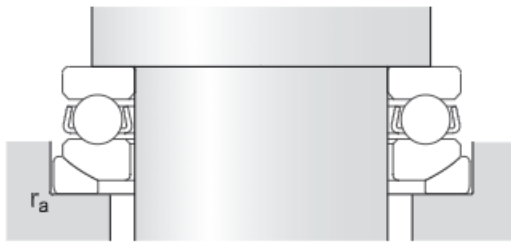
Dimensions

d	75 mm	Bore diameter
D	135 mm	Outside diameter
H	48.1 mm	Height
H ₁	52 mm	Height bearing including seat washer
d ₁	≈ 135 mm	Outside diameter shaft washer
D ₁	≈ 77 mm	Inner diameter housing washer
D ₂	105 mm	Inner diameter sphered seat washer
D ₃	140 mm	Outside diameter sphered housing washer
C	15 mm	Height sphered housing washer
R	100 mm	Radius sphered housing washer
s	37 mm	Centre height housing washer sphere
r _{1,2}	min. 1.5 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 111 mm	Abutment diameter shaft
D _a	max. 105 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius





Calculation data

Basic dynamic load rating	C	163 kN
Basic static load rating	C_0	390 kN
Fatigue load limit	P_u	14 kN
Reference speed		1 700 r/min
Limiting speed		2 400 r/min
Minimum load factor	A	0.79

Mass

Mass bearing (including seat washer where applicable)	3.2 kg
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Associated products

Seat washer	U 315
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53316

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	80 mm
Height	47.6 mm
Outside diameter	140 mm
Radius of aligning surface	112 mm

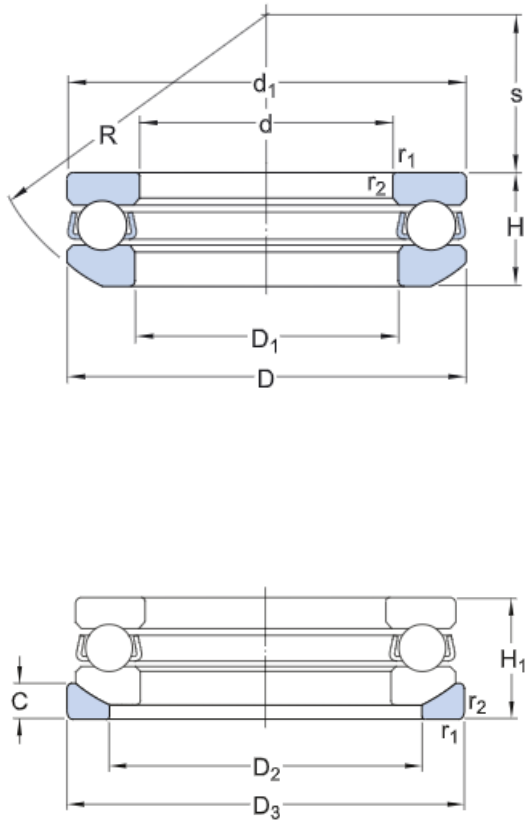
Performance

Basic dynamic load rating	159 kN
Basic static load rating	390 kN
Limiting speed	2 200 r/min
Reference speed	1 600 r/min

Properties

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

Technical Specification

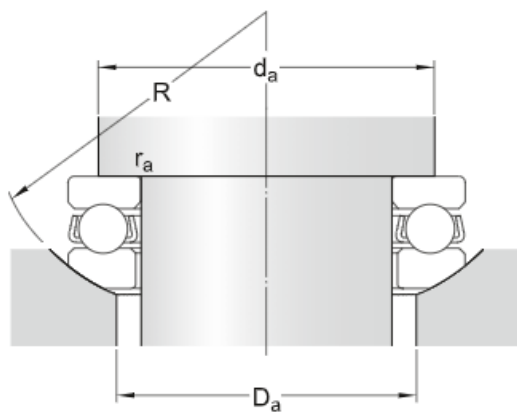


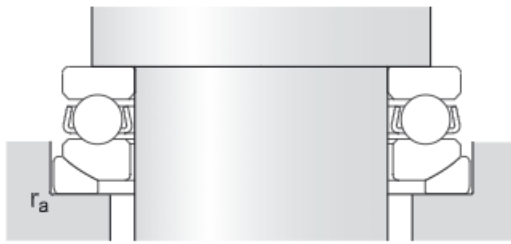
Dimensions

d	80 mm	Bore diameter
D	140 mm	Outside diameter
H	47.6 mm	Height
H ₁	52 mm	Height bearing including seat washer
d ₁	≈ 140 mm	Outside diameter shaft washer
D ₁	≈ 82 mm	Inner diameter housing washer
D ₂	110 mm	Inner diameter sphered seat washer
D ₃	145 mm	Outside diameter sphered housing washer
C	15 mm	Height sphered housing washer
R	112 mm	Radius sphered housing washer
s	50 mm	Centre height housing washer sphere
r _{1,2}	min. 1.5 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 116 mm	Abutment diameter shaft
D _a	max. 110 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius





Calculation data

Basic dynamic load rating	C	159 kN
Basic static load rating	C_0	390 kN
Fatigue load limit	P_u	13.7 kN
Reference speed		1 600 r/min
Limiting speed		2 200 r/min
Minimum load factor	A	0.79

Mass

Mass bearing (including seat washer where applicable)	3.2 kg
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Associated products

Seat washer	U 316
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53317

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	85 mm
Height	53.1 mm
Outside diameter	150 mm
Radius of aligning surface	112 mm

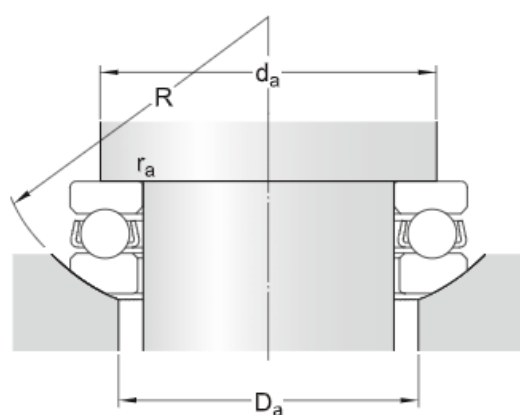
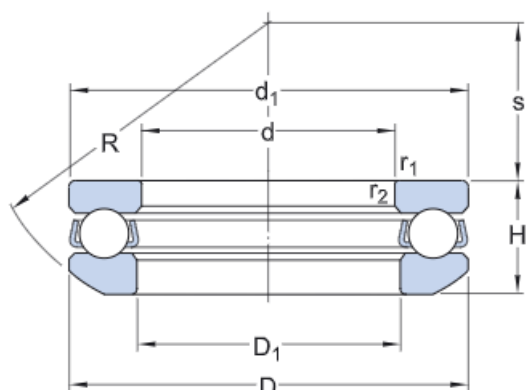
Performance

Basic dynamic load rating	174 kN
Basic static load rating	405 kN
Limiting speed	2 000 r/min
Reference speed	1 500 r/min

Properties

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

Technical Specification

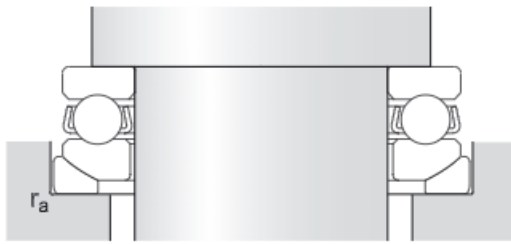


Dimensions

d	85 mm	Bore diameter
D	150 mm	Outside diameter
H	53.1 mm	Height
H ₁	58 mm	Height bearing including seat washer
d ₁	≈ 150 mm	Outside diameter shaft 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
C	17.5 mm	Height sphered housing washer
R	112 mm	Radius sphered housing washer
s	43 mm	Centre height housing washer sphere
r _{1,2}	min. 1.5 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 124 mm	Abutment diameter shaft
D _a	max. 115 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



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		1 500 r/min
Limiting speed		2 000 r/min
Minimum load factor	A	1.1

Mass

Mass bearing (including seat washer where applicable)	4.35 kg
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Associated products

Seat washer	U 317
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53318

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	90 mm
Height	54.6 mm
Outside diameter	155 mm
Radius of aligning surface	112 mm

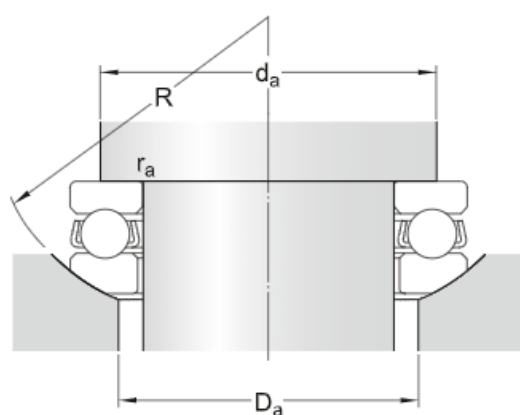
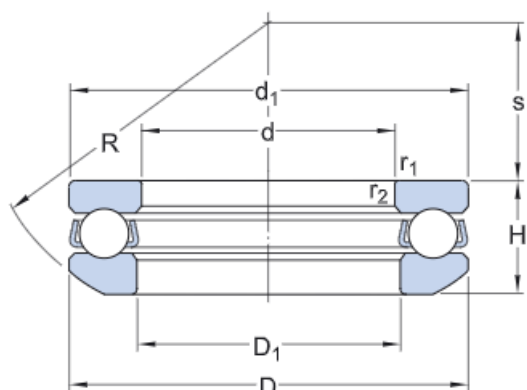
Performance

Basic dynamic load rating	182 kN
Basic static load rating	440 kN
Limiting speed	2 000 r/min
Reference speed	1 400 r/min

Properties

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

Technical Specification

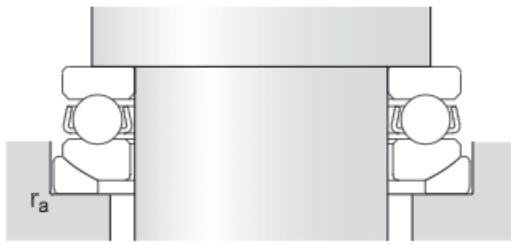


Dimensions

d	90 mm	Bore diameter
D	155 mm	Outside diameter
H	54.6 mm	Height
H ₁	59 mm	Height bearing including seat washer
d ₁	≈ 155 mm	Outside diameter shaft washer
D ₁	≈ 93 mm	Inner diameter housing washer
D ₂	120 mm	Inner diameter sphered seat washer
D ₃	160 mm	Outside diameter sphered housing washer
C	18 mm	Height sphered housing washer
R	112 mm	Radius sphered housing washer
s	40 mm	Centre height housing washer sphere
r _{1,2}	min. 1.5 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 129 mm	Abutment diameter shaft
D _a	max. 120 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	182 kN
Basic static load rating	C_0	440 kN
Fatigue load limit	P_u	14.6 kN
Reference speed		1 400 r/min
Limiting speed		2 000 r/min
Minimum load factor	A	1.3

Mass

Mass bearing (including seat washer where applicable)	4.7 kg
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Associated products

Seat washer	U 318
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53320

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	100 mm
Height	59.2 mm
Outside diameter	170 mm
Radius of aligning surface	125 mm

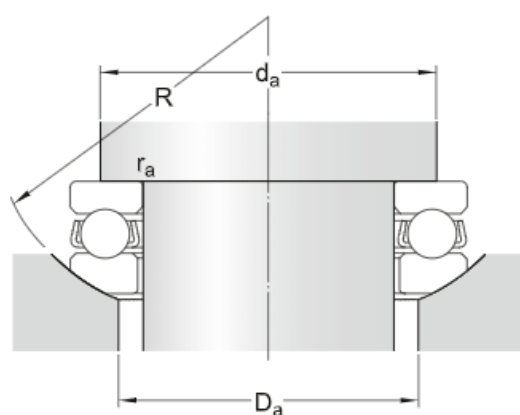
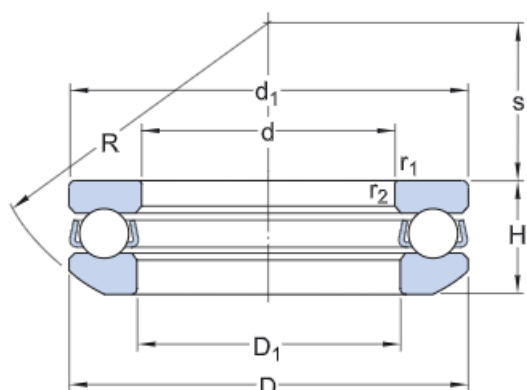
Performance

Basic dynamic load rating	225 kN
Basic static load rating	570 kN
Limiting speed	1 800 r/min
Reference speed	1 300 r/min

Properties

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

Technical Specification

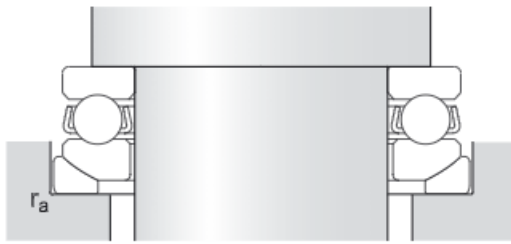


Dimensions

d	100 mm	Bore diameter
D	170 mm	Outside diameter
H	59.2 mm	Height
H ₁	64 mm	Height bearing including seat washer
d ₁	≈ 170 mm	Outside diameter shaft washer
D ₁	≈ 103 mm	Inner diameter housing washer
D ₂	135 mm	Inner diameter sphered seat washer
D ₃	175 mm	Outside diameter sphered housing washer
C	18 mm	Height sphered housing washer
R	125 mm	Radius sphered housing washer
s	46 mm	Centre height housing washer sphere
r _{1,2}	min. 1.5 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 142 mm	Abutment diameter shaft
D _a	max. 135 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	225 kN
Basic static load rating	C_0	570 kN
Fatigue load limit	P_u	18.3 kN
Reference speed		1 300 r/min
Limiting speed		1 800 r/min
Minimum load factor	A	1.9

Mass

Mass bearing (including seat washer where applicable)	5.95 kg
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Associated products

Seat washer	U 320
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53322 M

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	110 mm
Height	67.2 mm
Outside diameter	190 mm
Radius of aligning surface	140 mm

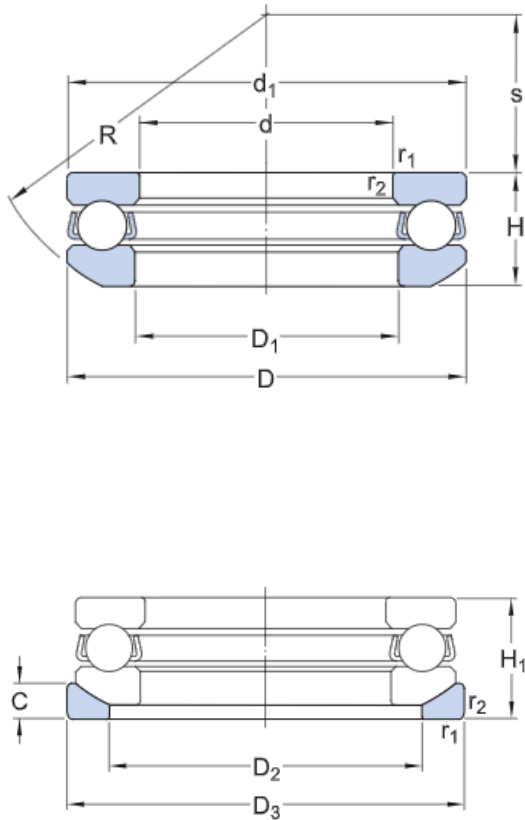
Performance

Basic dynamic load rating	291 kN
Basic static load rating	800 kN
Limiting speed	1 600 r/min
Reference speed	1 200 r/min

Properties

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

Technical Specification

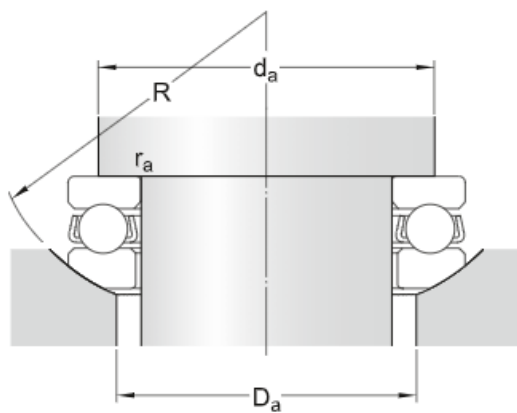


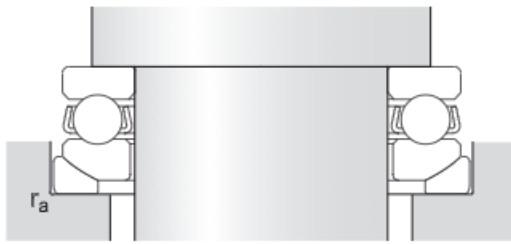
Dimensions

d	110 mm	Bore diameter
D	190 mm	Outside diameter
H	67.2 mm	Height
H ₁	72 mm	Height bearing including seat washer
d ₁	≈ 187 mm	Outside diameter shaft washer
D ₁	≈ 113 mm	Inner diameter housing washer
D ₂	150 mm	Inner diameter sphered seat washer
D ₃	195 mm	Outside diameter sphered housing washer
C	20 mm	Height sphered housing washer
R	140 mm	Radius sphered housing washer
s	51 mm	Centre height housing washer sphere
r _{1,2}	min. 2 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 140 mm	Abutment diameter shaft
D _a	max. 150 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius





Calculation data

Basic dynamic load rating	C	291 kN
Basic static load rating	C_0	800 kN
Fatigue load limit	P_u	24.5 kN
Reference speed		1 200 r/min
Limiting speed		1 600 r/min
Minimum load factor	A	3.2

Mass

Mass bearing (including seat washer where applicable)	7.74 kg
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Associated products

Seat washer	U 322
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53324 M

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	120 mm
Height	74.1 mm
Outside diameter	210 mm
Radius of aligning surface	160 mm

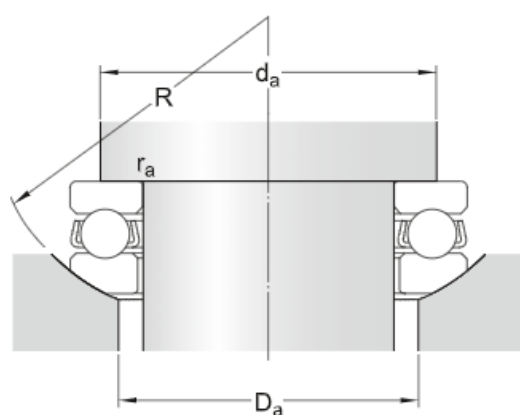
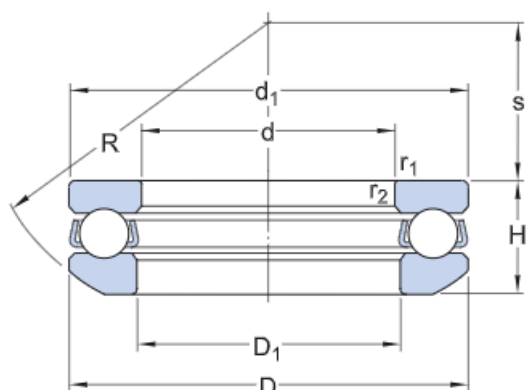
Performance

Basic dynamic load rating	332 kN
Basic static load rating	980 kN
Limiting speed	1 500 r/min
Reference speed	1 000 r/min

Properties

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

Technical Specification

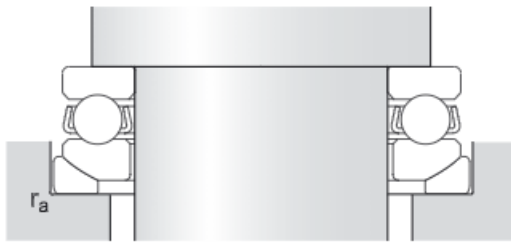


Dimensions

d	120 mm	Bore diameter
D	210 mm	Outside diameter
H	74.1 mm	Height
H ₁	80 mm	Height bearing including seat washer
d ₁	≈ 205 mm	Outside diameter shaft washer
D ₁	≈ 123 mm	Inner diameter housing washer
D ₂	165 mm	Inner diameter sphered seat washer
D ₃	220 mm	Outside diameter sphered housing washer
C	22 mm	Height sphered housing washer
R	160 mm	Radius sphered housing washer
s	63 mm	Centre height housing washer sphere
r _{1,2}	min. 2.1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 173 mm	Abutment diameter shaft
D _a	max. 165 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	332 kN
Basic static load rating	C_0	980 kN
Fatigue load limit	P_u	28 kN
Reference speed		1 000 r/min
Limiting speed		1 500 r/min
Minimum load factor	A	5

Mass

Mass bearing (including seat washer where applicable)	12.5 kg
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Associated products

Seat washer	U 324
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53408

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

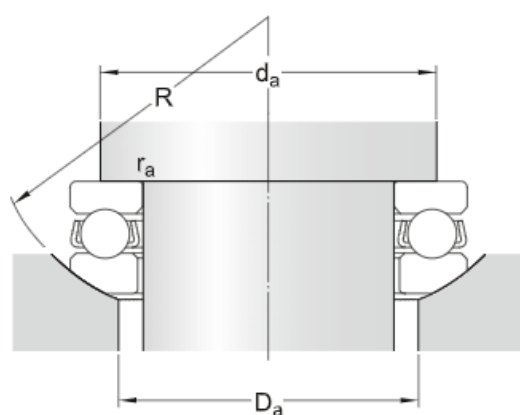
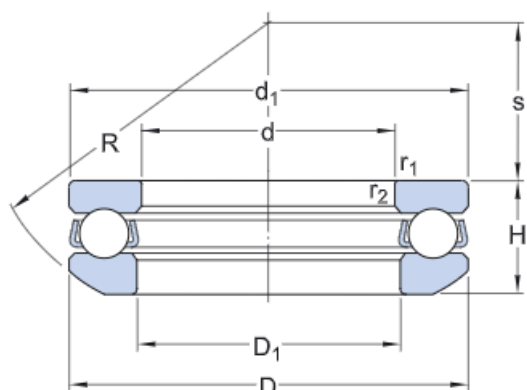
Performance

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

Properties

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

Technical Specification

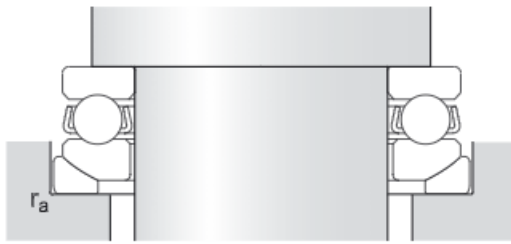


Dimensions

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
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Associated products

Seat washer	U 408
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53410

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	50 mm
Height	45.6 mm
Outside diameter	110 mm
Radius of aligning surface	90 mm

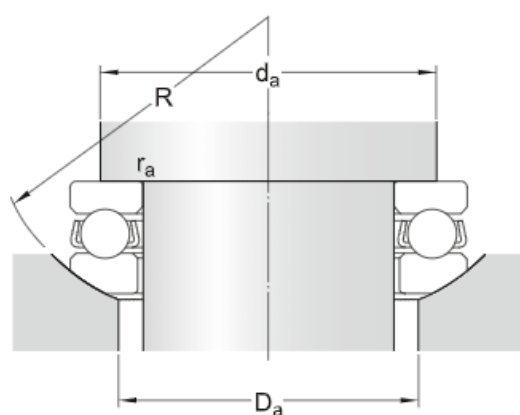
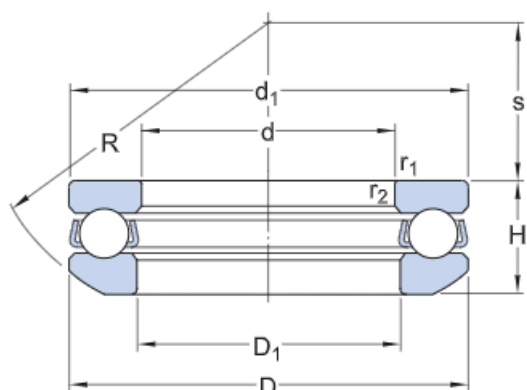
Performance

Basic dynamic load rating	159 kN
Basic static load rating	340 kN
Limiting speed	2 600 r/min
Reference speed	1 900 r/min

Properties

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

Technical Specification

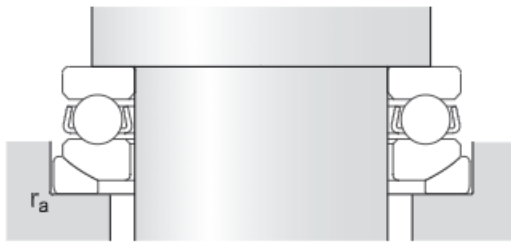


Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
H	45.6 mm	Height
H ₁	50 mm	Height bearing including seat washer
d ₁	≈ 110 mm	Outside diameter shaft washer
D ₁	≈ 52 mm	Inner diameter housing washer
D ₂	80 mm	Inner diameter sphered seat washer
D ₃	115 mm	Outside diameter sphered housing washer
C	14 mm	Height sphered housing washer
R	90 mm	Radius sphered housing washer
s	35 mm	Centre height housing washer sphere
r _{1,2}	min. 1.5 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 86 mm	Abutment diameter shaft
D _a	max. 80 mm	Abutment diameter housing
r _a	max. 1.5 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	159 kN
Basic static load rating	C_0	340 kN
Fatigue load limit	P_u	12.5 kN
Reference speed		1 900 r/min
Limiting speed		2 600 r/min
Minimum load factor	A	0.6

Mass

Mass bearing (including seat washer where applicable)	2.31 kg
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Associated products

Seat washer	U 410
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53411

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	55 mm
Height	50.5 mm
Outside diameter	120 mm
Radius of aligning surface	90 mm

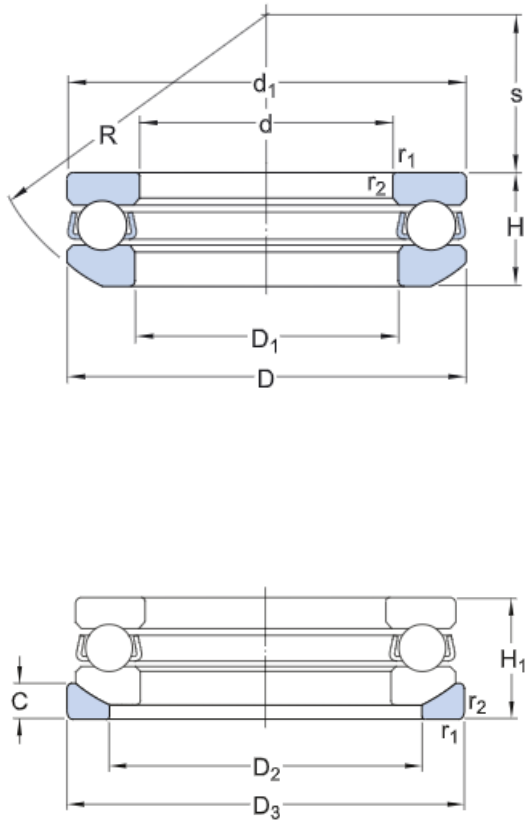
Performance

Basic dynamic load rating	195 kN
Basic static load rating	400 kN
Limiting speed	2 400 r/min
Reference speed	1 700 r/min

Properties

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

Technical Specification

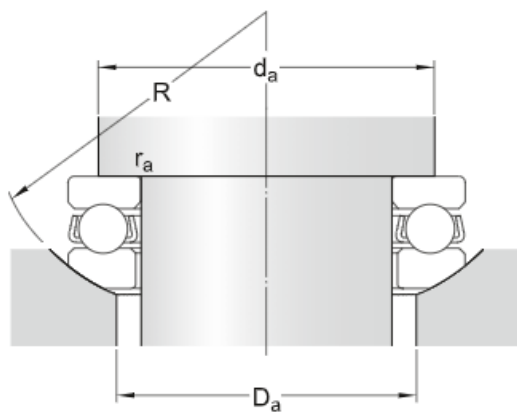


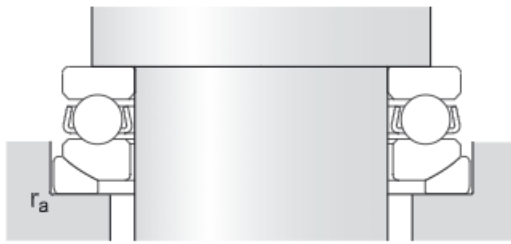
Dimensions

d	55 mm	Bore diameter
D	120 mm	Outside diameter
H	50.5 mm	Height
H ₁	55 mm	Height bearing including seat washer
d ₁	≈ 120 mm	Outside diameter shaft washer
D ₁	≈ 57 mm	Inner diameter housing washer
D ₂	88 mm	Inner diameter sphered seat washer
D ₃	125 mm	Outside diameter sphered housing washer
C	15.5 mm	Height sphered housing washer
R	90 mm	Radius sphered housing washer
s	28 mm	Centre height housing washer sphere
r _{1,2}	min. 1.5 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 94 mm	Abutment diameter shaft
D _a	max. 88 mm	Abutment diameter housing
r _a	max. 1.5 mm	Fillet radius





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		1 700 r/min
Limiting speed		2 400 r/min
Minimum load factor	A	0.79

Mass

Mass bearing (including seat washer where applicable)	3.08 kg
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Associated products

Seat washer	U 411
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53420 M

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	100 mm
Height	90 mm
Outside diameter	210 mm
Radius of aligning surface	160 mm

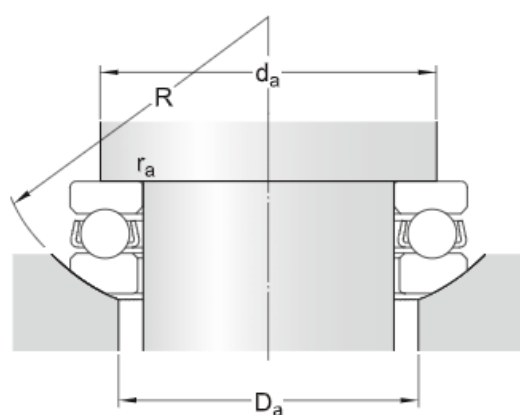
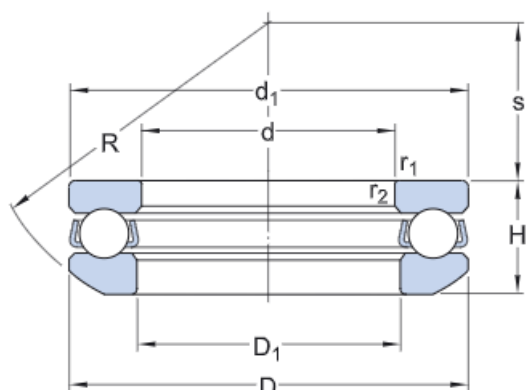
Performance

Basic dynamic load rating	371 kN
Basic static load rating	1 060 kN
Limiting speed	1 300 r/min
Reference speed	950 r/min

Properties

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

Technical Specification

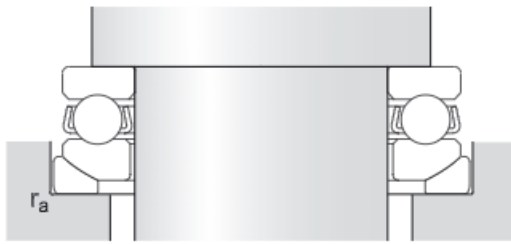


Dimensions

d	100 mm	Bore diameter
D	210 mm	Outside diameter
H	90 mm	Height
H ₁	98 mm	Height bearing including seat washer
d ₁	≈ 205 mm	Outside diameter shaft washer
D ₁	≈ 103 mm	Inner diameter housing washer
D ₂	155 mm	Inner diameter sphered seat washer
D ₃	220 mm	Outside diameter sphered housing washer
C	27 mm	Height sphered housing washer
R	160 mm	Radius sphered housing washer
s	50 mm	Centre height housing washer sphere
r _{1,2}	min. 3 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 165 mm	Abutment diameter shaft
D _a	max. 155 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	371 kN
Basic static load rating	C_0	1 060 kN
Fatigue load limit	P_u	31.5 kN
Reference speed		950 r/min
Limiting speed		1 300 r/min
Minimum load factor	A	5.8

Mass

Mass bearing (including seat washer where applicable)	18 kg
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Associated products

Seat washer	U 420
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59172 F

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	360 mm
Height	48 mm
Outside diameter	440 mm

Performance

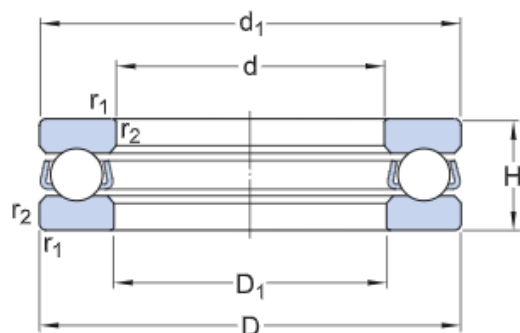
Basic dynamic load rating	255 kN
Basic static load rating	1 500 kN
Limiting speed	1 200 r/min
Reference speed	900 r/min

Properties

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

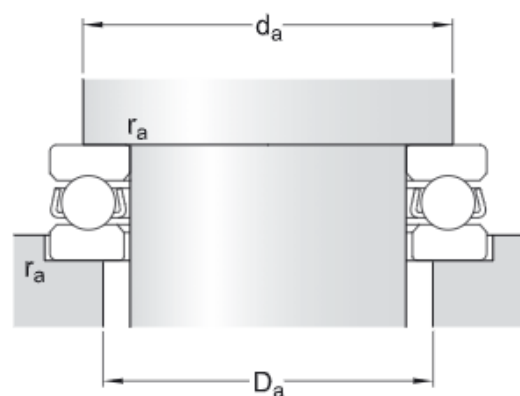


Technical Specification



Dimensions

d	360 mm	Bore diameter
D	440 mm	Outside diameter
H	48 mm	Height
d_1	≈ 437 mm	Outside diameter shaft washer
D_1	≈ 363 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 406 mm	Abutment diameter shaft
D_a	max. 394 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	255 kN
Basic static load rating	C_0	1 500 kN
Fatigue load limit	P_u	27.5 kN
Reference speed		900 r/min
Limiting speed		1 200 r/min
Minimum load factor	A	1.2

59176 F

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	380 mm
Height	48 mm
Outside diameter	460 mm

Performance

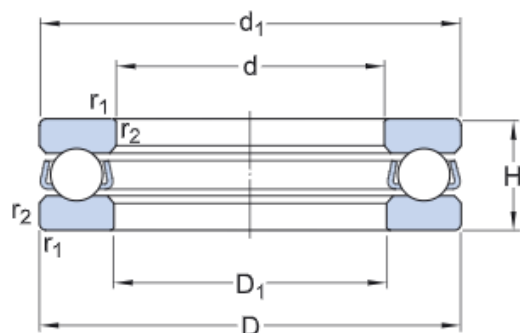
Basic dynamic load rating	255 kN
Basic static load rating	1 530 kN
Limiting speed	1 200 r/min
Reference speed	850 r/min

Properties

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

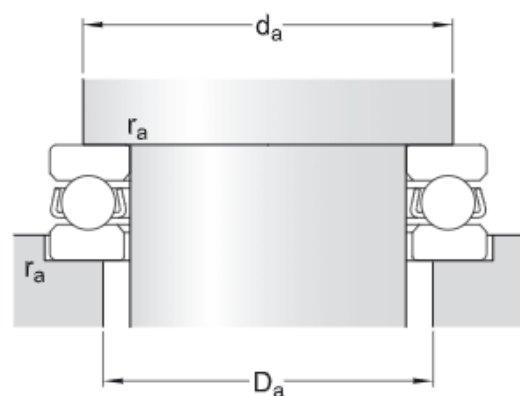


Technical Specification



Dimensions

d	380 mm	Bore diameter
D	460 mm	Outside diameter
H	48 mm	Height
d_1	≈ 457 mm	Outside diameter shaft washer
D_1	≈ 383 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 426 mm	Abutment diameter shaft
D_a	max. 414 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	255 kN
Basic static load rating	C_0	1 530 kN
Fatigue load limit	P_u	28 kN
Reference speed		850 r/min
Limiting speed		1 200 r/min
Minimum load factor	A	12

59180 F

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	400 mm
Height	48 mm
Outside diameter	480 mm

Performance

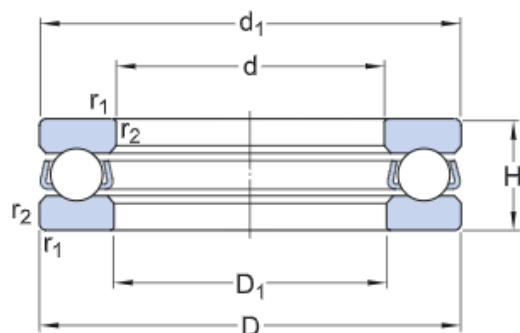
Basic dynamic load rating	260 kN
Basic static load rating	1 630 kN
Limiting speed	1 200 r/min
Reference speed	850 r/min

Properties

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

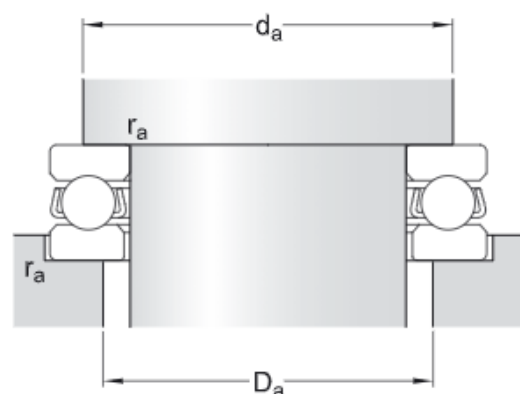


Technical Specification



Dimensions

d	400 mm	Bore diameter
D	480 mm	Outside diameter
H	48 mm	Height
d_1	≈ 477 mm	Outside diameter shaft washer
D_1	≈ 403 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 446 mm	Abutment diameter shaft
D_a	max. 434 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	260 kN
Basic static load rating	C_0	1 630 kN
Fatigue load limit	P_u	28.5 kN
Reference speed		850 r/min
Limiting speed		1 200 r/min
Minimum load factor	A	14

59184 F

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	420 mm
Height	48 mm
Outside diameter	500 mm

Performance

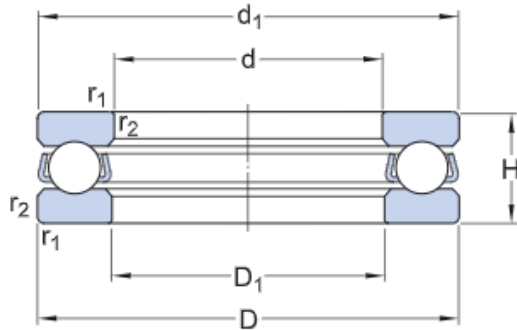
Basic dynamic load rating	265 kN
Basic static load rating	1 700 kN
Limiting speed	1 200 r/min
Reference speed	850 r/min

Properties

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

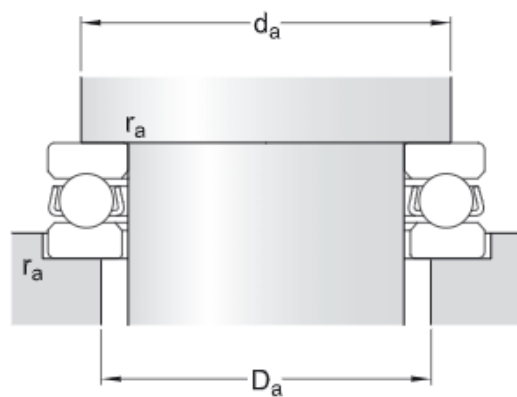


Technical Specification



Dimensions

d	420 mm	Bore diameter
D	500 mm	Outside diameter
H	48 mm	Height
d_1	≈ 496 mm	Outside diameter shaft washer
D_1	≈ 423 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 466 mm	Abutment diameter shaft
D_a	max. 454 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	265 kN
Basic static load rating	C_0	1 700 kN
Fatigue load limit	P_u	30 kN
Reference speed		850 r/min
Limiting speed		1 200 r/min
Minimum load factor	A	15

59188 F

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	440 mm
Height	60 mm
Outside diameter	540 mm

Performance

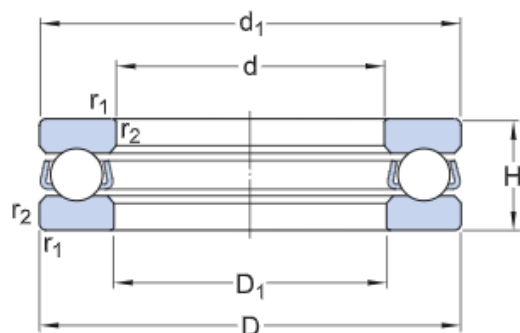
Basic dynamic load rating	238 kN
Basic static load rating	1 500 kN
Limiting speed	1 000 r/min
Reference speed	700 r/min

Properties

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

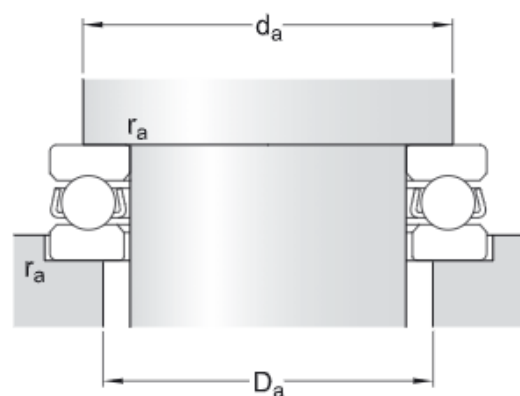


Technical Specification



Dimensions

d	440 mm	Bore diameter
D	540 mm	Outside diameter
H	60 mm	Height
d ₁	≈ 536 mm	Outside diameter shaft washer
D ₁	≈ 444 mm	Inner diameter housing washer
r _{1,2}	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

da	min. 497 mm	Abutment diameter shaft
Da	max. 483 mm	Abutment diameter housing
ra	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	238 kN
Basic static load rating	C ₀	1 500 kN
Fatigue load limit	P _u	25 kN
Reference speed		700 r/min
Limiting speed		1 000 r/min
Minimum load factor	A	12

59192 F

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	460 mm
Height	60 mm
Outside diameter	560 mm

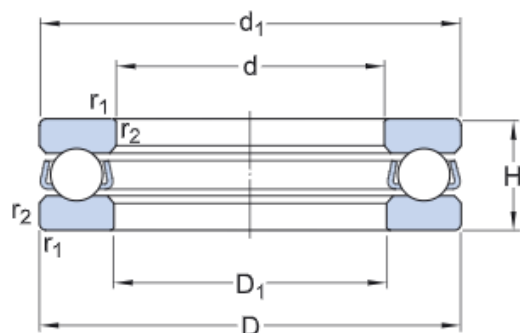
Performance

Basic dynamic load rating	242 kN
Basic static load rating	1 530 kN
Limiting speed	950 r/min
Reference speed	700 r/min

Properties

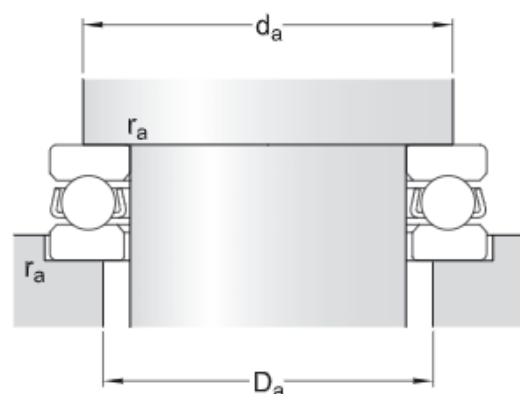
Axial load capability	Single-direction
Cage	Machined metal
Coating	Without
Housing washer type	Flat
Material, bearing	Bearing steel
Number of rows	1
Tolerance class	Normal

Technical Specification



Dimensions

d	460 mm	Bore diameter
D	560 mm	Outside diameter
H	60 mm	Height
d ₁	≈ 556 mm	Outside diameter shaft washer
D ₁	≈ 464 mm	Inner diameter housing washer
r _{1,2}	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

da	min. 517 mm	Abutment diameter shaft
Da	max. 503 mm	Abutment diameter housing
ra	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	242 kN
Basic static load rating	C ₀	1 530 kN
Fatigue load limit	P _u	25 kN
Reference speed		700 r/min
Limiting speed		950 r/min
Minimum load factor	A	11

59196 F

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	480 mm
Height	60 mm
Outside diameter	580 mm

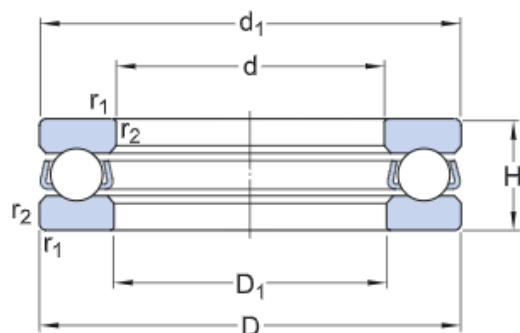
Performance

Basic dynamic load rating	442 kN
Basic static load rating	2 800 kN
Limiting speed	950 r/min
Reference speed	670 r/min

Properties

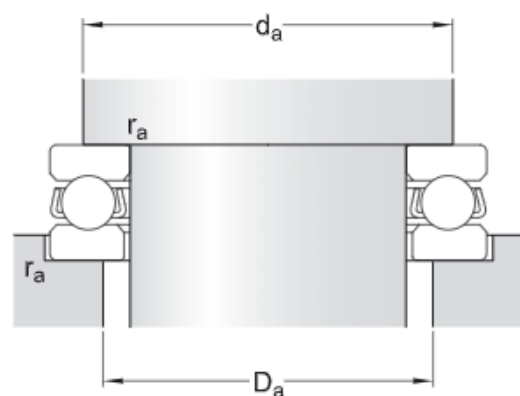
Axial load capability	Single-direction
Cage	Machined metal
Coating	Without
Housing washer type	Flat
Material, bearing	Bearing steel
Number of rows	1
Tolerance class	Normal

Technical Specification



Dimensions

d	480 mm	Bore diameter
D	580 mm	Outside diameter
H	60 mm	Height
d ₁	≈ 576 mm	Outside diameter shaft washer
D ₁	≈ 484 mm	Inner diameter housing washer
r _{1,2}	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions

da	min. 537 mm	Abutment diameter shaft
Da	max. 523 mm	Abutment diameter housing
ra	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	442 kN
Basic static load rating	C ₀	2 800 kN
Fatigue load limit	P _u	45 kN
Reference speed		670 r/min
Limiting speed		950 r/min
Minimum load factor	A	11

351793

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	380 mm
Height	36 mm
Outside diameter	460 mm

Performance

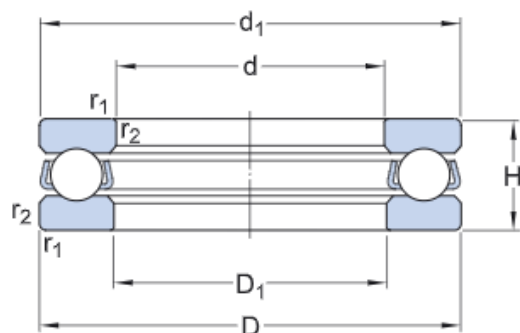
Basic dynamic load rating	186 kN
Basic static load rating	1 140 kN
Limiting speed	1 400 r/min
Reference speed	1 000 r/min

Properties

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

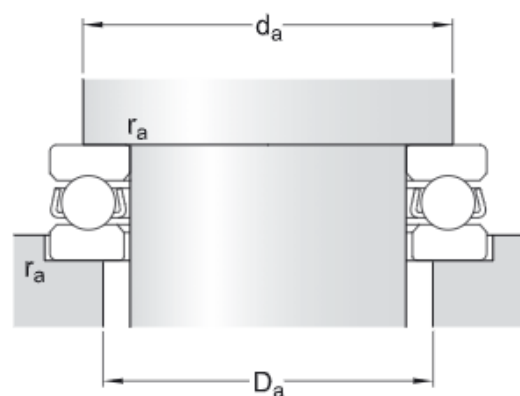


Technical Specification



Dimensions

d	380 mm	Bore diameter
D	460 mm	Outside diameter
H	36 mm	Height
d ₁	≈ 455 mm	Outside diameter shaft washer
D ₁	≈ 385 mm	Inner diameter housing washer
r _{1,2}	min. 2 mm	Chamfer dimension washer



Abutment dimensions

da	min. 425 mm	Abutment diameter shaft
Da	max. 415 mm	Abutment diameter housing
ra	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	186 kN
Basic static load rating	C ₀	1 140 kN
Fatigue load limit	P _u	20.8 kN
Reference speed		1 000 r/min
Limiting speed		1 400 r/min
Minimum load factor	A	5.8

BA 3

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	3 mm
Height	3.5 mm
Outside diameter	8 mm

Performance

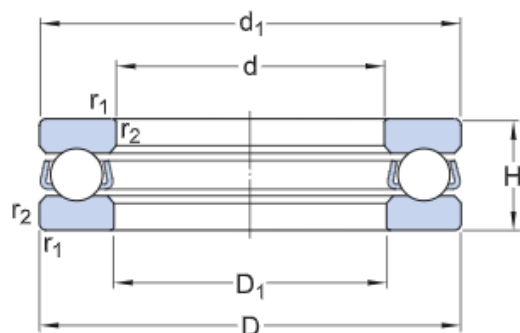
Basic dynamic load rating	0.806 kN
Basic static load rating	0.72 kN
Limiting speed	36 000 r/min
Reference speed	26 000 r/min

Properties

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

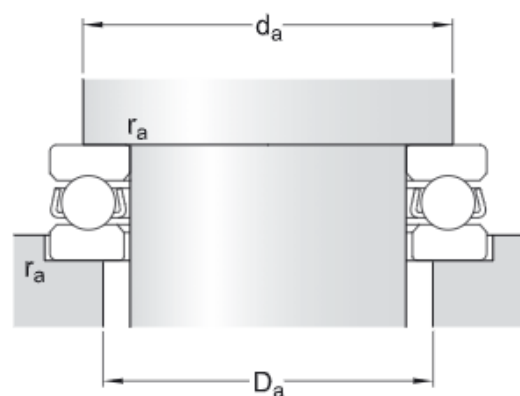


Technical Specification



Dimensions

d	3 mm	Bore diameter
D	8 mm	Outside diameter
H	3.5 mm	Height
d ₁	≈ 7.8 mm	Outside diameter shaft washer
D ₁	≈ 3.2 mm	Inner diameter housing washer
r _{1,2}	min. 0.15 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 5.8 mm	Abutment diameter shaft
D _a	max. 5 mm	Abutment diameter housing
r _a	max. 0.15 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	0.806 kN
Basic static load rating	C ₀	0.72 kN
Fatigue load limit	P _u	0.027 kN
Reference speed		26 000 r/min
Limiting speed		36 000 r/min
Minimum load factor	A	0.000003

BA 4

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	4 mm
Height	4 mm
Outside diameter	10 mm

Performance

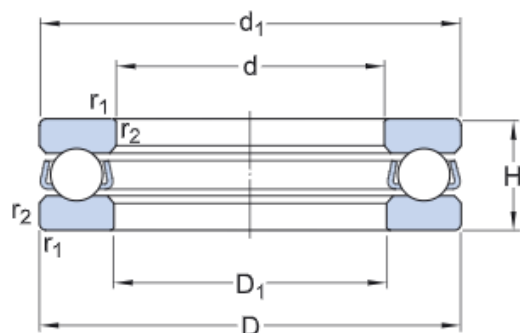
Basic dynamic load rating	0.761 kN
Basic static load rating	0.72 kN
Limiting speed	30 000 r/min
Reference speed	22 000 r/min

Properties

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

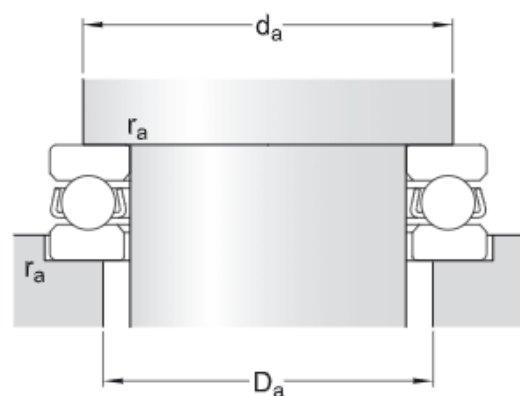


Technical Specification



Dimensions

d	4 mm	Bore diameter
D	10 mm	Outside diameter
H	4 mm	Height
d ₁	≈ 9.8 mm	Outside diameter shaft washer
D ₁	≈ 4.2 mm	Inner diameter housing washer
r _{1,2}	min. 0.15 mm	Chamfer dimension washer



Abutment dimensions

d _a	min. 7.5 mm	Abutment diameter shaft
D _a	max. 6.5 mm	Abutment diameter housing
r _a	max. 0.15 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	0.761 kN
Basic static load rating	C ₀	0.72 kN
Fatigue load limit	P _u	0.027 kN
Reference speed		22 000 r/min
Limiting speed		30 000 r/min
Minimum load factor	A	0.000003

BA 5

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	5 mm
Height	4 mm
Outside diameter	12 mm

Performance

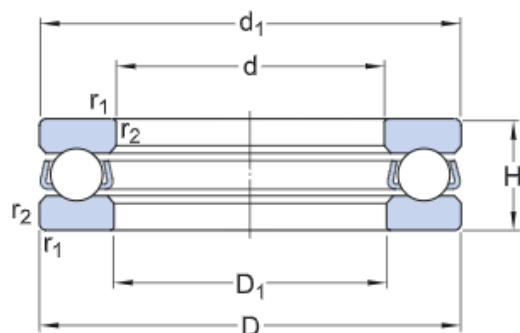
Basic dynamic load rating	0.852 kN
Basic static load rating	0.965 kN
Limiting speed	28 000 r/min
Reference speed	20 000 r/min

Properties

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

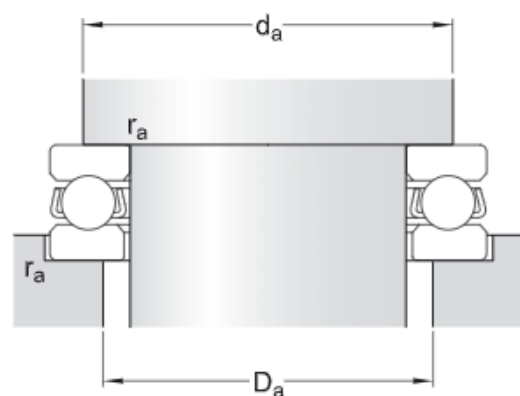


Technical Specification



Dimensions

d	5 mm	Bore diameter
D	12 mm	Outside diameter
H	4 mm	Height
d_1	≈ 11.8 mm	Outside diameter shaft washer
D_1	≈ 5.2 mm	Inner diameter housing washer
$r_{1,2}$	min. 0.15 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 8 mm	Abutment diameter shaft
D_a	max. 9 mm	Abutment diameter housing
r_a	max. 0.15 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	0.852 kN
Basic static load rating	C_0	0.965 kN
Fatigue load limit	P_u	0.036 kN
Reference speed		20 000 r/min
Limiting speed		28 000 r/min
Minimum load factor	A	0.000005

BA 6

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	6 mm
Height	5 mm
Outside diameter	14 mm

Performance

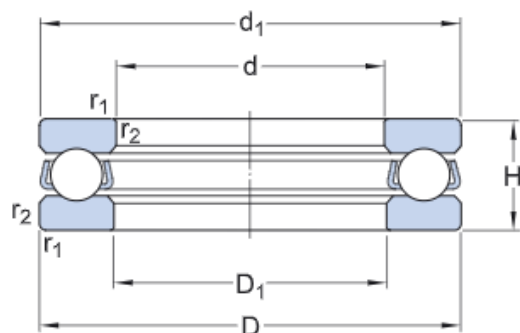
Basic dynamic load rating	1.78 kN
Basic static load rating	1.92 kN
Limiting speed	24 000 r/min
Reference speed	17 000 r/min

Properties

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

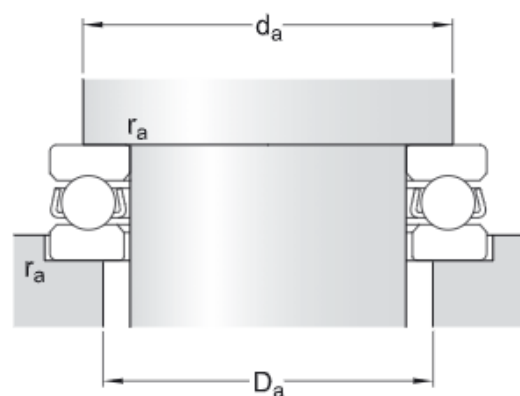


Technical Specification



Dimensions

d	6 mm	Bore diameter
D	14 mm	Outside diameter
H	5 mm	Height
d_1	≈ 13.8 mm	Outside diameter shaft washer
D_1	≈ 6.2 mm	Inner diameter housing washer
$r_{1,2}$	min. 0.2 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 11 mm	Abutment diameter shaft
D_a	max. 9.5 mm	Abutment diameter housing
r_a	max. 0.2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1.78 kN
Basic static load rating	C_0	1.92 kN
Fatigue load limit	P_u	0.071 kN
Reference speed		17 000 r/min
Limiting speed		24 000 r/min
Minimum load factor	A	0.000019

BA 7

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	7 mm
Height	6 mm
Outside diameter	17 mm

Performance

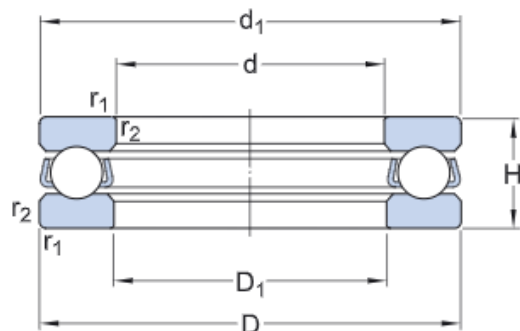
Basic dynamic load rating	2.51 kN
Basic static load rating	2.9 kN
Limiting speed	19 000 r/min
Reference speed	14 000 r/min

Properties

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

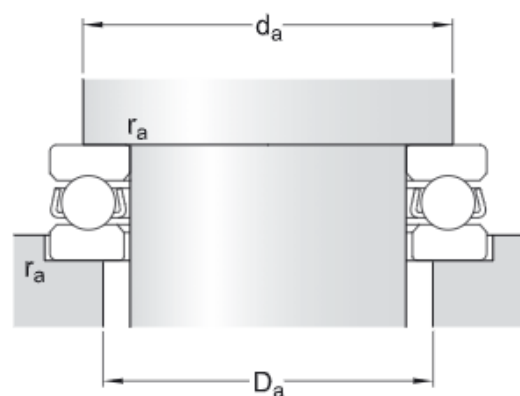


Technical Specification



Dimensions

d	7 mm	Bore diameter
D	17 mm	Outside diameter
H	6 mm	Height
d ₁	≈ 16.8 mm	Outside diameter shaft washer
D ₁	≈ 7.2 mm	Inner diameter housing washer
r _{1,2}	min. 0.2 mm	Chamfer dimension washer



Abutment dimensions

da	min. 12.5 mm	Abutment diameter shaft
Da	max. 11 mm	Abutment diameter housing
ra	max. 0.2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2.51 kN
Basic static load rating	C ₀	2.9 kN
Fatigue load limit	P _u	0.108 kN
Reference speed		14 000 r/min
Limiting speed		19 000 r/min
Minimum load factor	A	0.000044

BA 8

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	8 mm
Height	7 mm
Outside diameter	19 mm

Performance

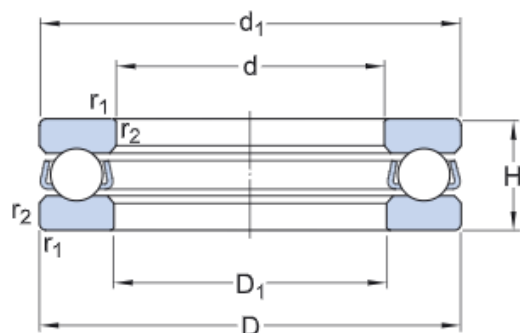
Basic dynamic load rating	3.19 kN
Basic static load rating	3.8 kN
Limiting speed	17 000 r/min
Reference speed	12 000 r/min

Properties

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

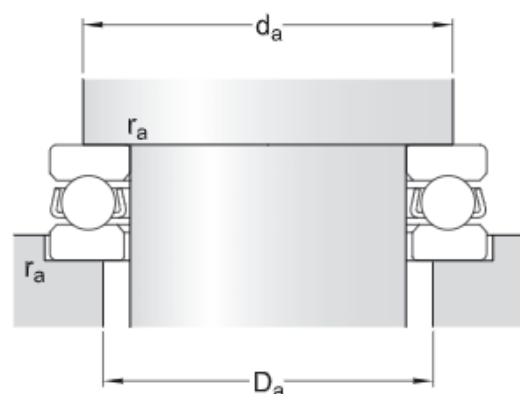


Technical Specification



Dimensions

d	8 mm	Bore diameter
D	19 mm	Outside diameter
H	7 mm	Height
d_1	≈ 18.8 mm	Outside diameter shaft washer
D_1	≈ 8.2 mm	Inner diameter housing washer
$r_{1,2}$	min. 0.3 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 14.5 mm	Abutment diameter shaft
D_a	max. 12.5 mm	Abutment diameter housing
r_a	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3.19 kN
Basic static load rating	C_0	3.8 kN
Fatigue load limit	P_u	0.143 kN
Reference speed		12 000 r/min
Limiting speed		17 000 r/min
Minimum load factor	A	0.000075

BA 9

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	9 mm
Height	7 mm
Outside diameter	20 mm

Performance

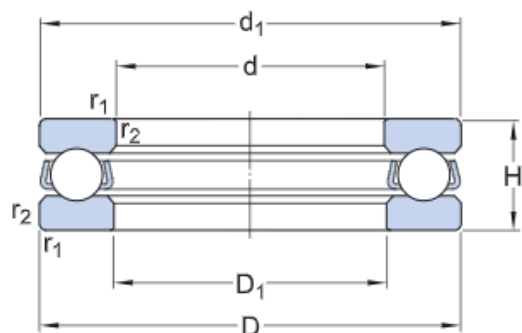
Basic dynamic load rating	3.12 kN
Basic static load rating	3.8 kN
Limiting speed	16 000 r/min
Reference speed	12 000 r/min

Properties

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

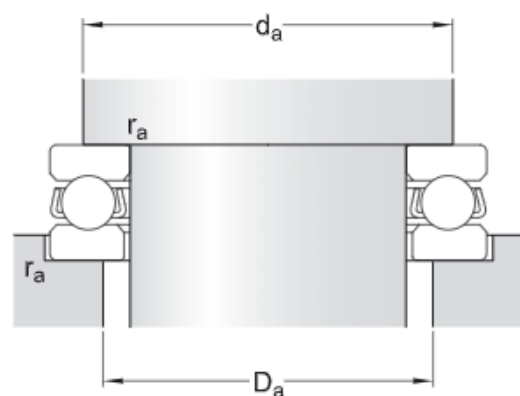


Technical Specification



Dimensions

d	9 mm	Bore diameter
D	20 mm	Outside diameter
H	7 mm	Height
d_1	≈ 19.8 mm	Outside diameter shaft washer
D_1	≈ 9.2 mm	Inner diameter housing washer
$r_{1,2}$	min. 0.3 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 15.5 mm	Abutment diameter shaft
D_a	max. 13.5 mm	Abutment diameter housing
r_a	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	3.12 kN
Basic static load rating	C_0	3.8 kN
Fatigue load limit	P_u	0.143 kN
Reference speed		12 000 r/min
Limiting speed		16 000 r/min
Minimum load factor	A	0.000075



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