

# 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 |

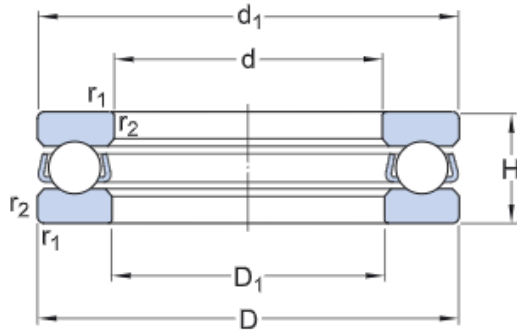
### Performance

|                           |           |
|---------------------------|-----------|
| 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

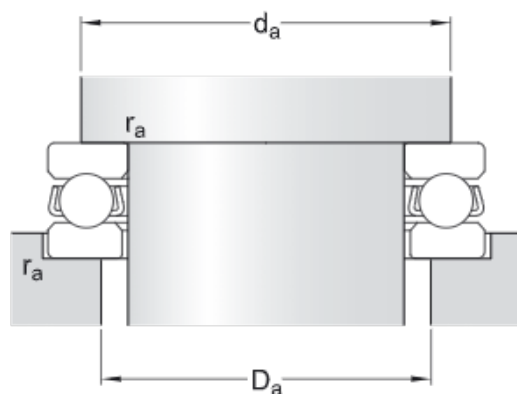


## Dimensions

|           |                  |                               |
|-----------|------------------|-------------------------------|
| d         | 340 mm           | Bore diameter                 |
| D         | 460 mm           | Outside diameter              |
| H         | 96 mm            | Height                        |
| $d_1$     | $\approx 455$ mm | Outside diameter shaft washer |
| $D_1$     | $\approx 345$ mm | Inner diameter housing washer |
| $r_{1,2}$ | min. 3 mm        | Chamfer dimension washer      |

## Abutment dimensions

|       |             |                           |
|-------|-------------|---------------------------|
| $d_a$ | min. 412 mm | Abutment diameter shaft   |
| $D_a$ | max. 388 mm | Abutment diameter housing |
| $r_a$ | 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        |

## Mass

Mass bearing (including seat washer where applicable)

48.5 kg

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