

# 51114

Popular item

## Thrust ball bearings, single direction

Bearing data

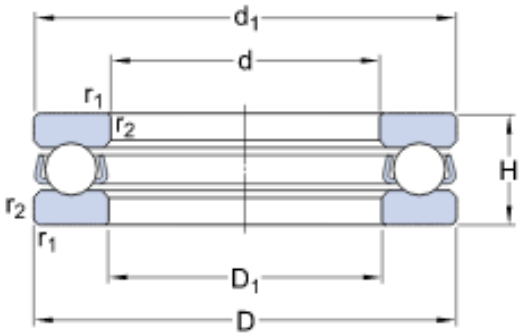
Tolerances,
table 1

Bearing interfaces

Seat tolerances for standard conditions,

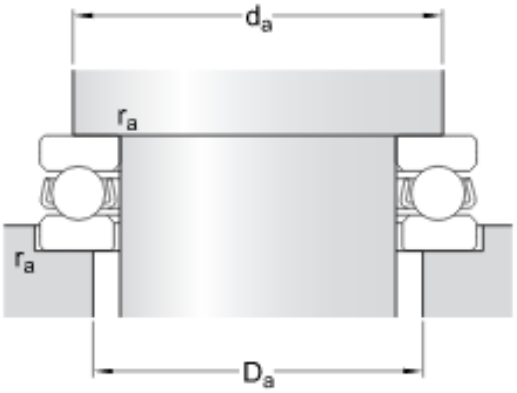
Tolerances and resultant fit

## Technical specification




### DIMENSIONS

| | |
|---|---|
| d | 70 mm |
| D | 95 mm |
| H | 18 mm |
| $d_1$ | ≈ 95 mm |
| $D_1$ | ≈ 72 mm |
| $r_{1,2}$ | min. 1 mm |




### ABUTMENT DIMENSIONS

| | |
|---|---|
| $d_a$ | min. 85 mm |
| $D_a$ | max. 80 mm |
| $r_a$ | max. 1 mm |

## 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 | | 3400 r/min |
| Limiting speed | | 4500 r/min |
| Minimum load factor | A | 0.074 |

## MASS

| | |
|---|---|
| Mass bearing (including seat washer where applicable) | 0.35 kg |

## More information

### Product details

- Designs and variants
- Bearing data
- Loads
- Temperature limits
- Permissible speed
- Mounting
- Designation system

### Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing interfaces
- Seat tolerances for standard conditions
- Lubrication
- External sealing, mounting and dismounting
- Bearing failure and how to prevent it

### Tools

- Bearing Select
- Engineering Calculator
- SimPro Quick
- LubeSelect for SKF greases
- Heater selection tool

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