



## 51105 Thrust ball bearings, single direction

- Popular item

### Thrust ball bearings, single direction

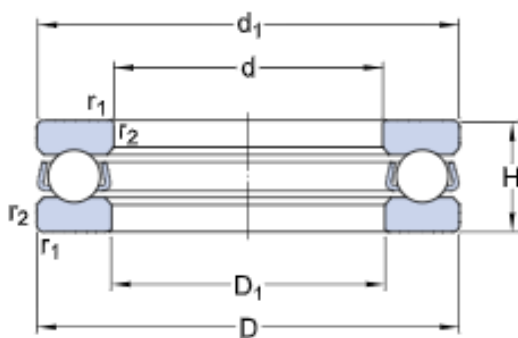
#### Bearing data

[Tolerances,](#)  
table 1

#### Bearing interfaces

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

### Technical specification

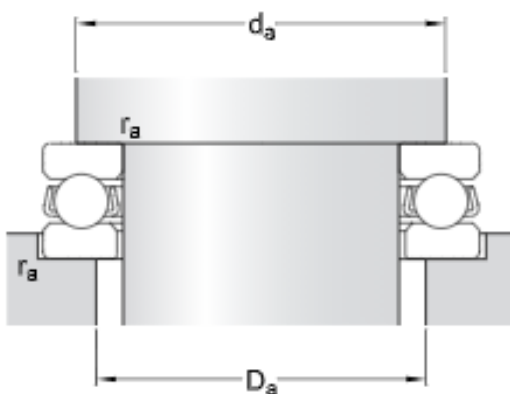


#### DIMENSIONS

|           |                 |                               |
|-----------|-----------------|-------------------------------|
| d         | 25 mm           | Bore diameter                 |
| D         | 42 mm           | Outside diameter              |
| H         | 11 mm           | Height                        |
| $d_1$     | $\approx 42$ mm | Outside diameter shaft washer |
| $D_1$     | $\approx 26$ 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   |
| $D_i$ | max. 32 mm  | Abutment diameter housing |
| $r_a$ | max. 0.6 mm | Fillet radius             |



## CALCULATION DATA

|                |             |                           |
|----------------|-------------|---------------------------|
| C              | 18.2 kN     | Basic dynamic load rating |
| C <sub>0</sub> | 39 kN       | Basic static load rating  |
| P <sub>u</sub> | 1.43 kN     | Fatigue load limit        |
|                | 6 300 r/min | Reference speed           |
|                | 9 000 r/min | Limiting speed            |
| A              | 0.008       | Minimum load factor       |

## MASS

|          |   |
|----------|---|
| 0.056 kg | Mass bearing (including seat washer where applicable) |
|----------|---|

## More information

| Product details                      | Engineering information                                    | Tools                                      |
|--------------------------------------|--|--|
| <a href="#">Designs and variants</a> | <a href="#">Principles of rolling bearing selection</a>    | <a href="#">Bearing Select</a>             |
| <a href="#">Bearing data</a>         | <a href="#">General bearing knowledge</a>                  | <a href="#">Engineering Calculator</a>     |
| <a href="#">Loads</a>                | <a href="#">Bearing selection process</a>                  | <a href="#">SimPro Quick</a>               |
| <a href="#">Temperature limits</a>   | <a href="#">Bearing interfaces</a>                         | <a href="#">LubeSelect for SKF greases</a> |
| <a href="#">Permissible speed</a>    | <a href="#">Seat tolerances for standard conditions</a>    | <a href="#">Heater selection tool</a>      |
| <a href="#">Mounting</a>             | <a href="#">Lubrication</a>                                |  |
| <a href="#">Designation system</a>   | <a href="#">External sealing, mounting and dismounting</a> |  |
|                                      | <a href="#">Bearing failure and how to prevent it</a>      |  |