

## 4305 ATN9

### Deep groove ball bearings

#### Bearing data

[Tolerances,](#)

Normal (metric), P6, P5, Normal (inch),

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

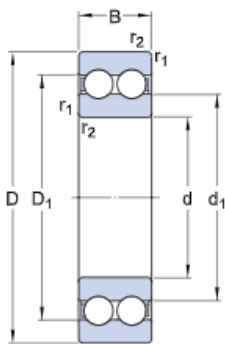
$d < 10$  mm, Other bearings

#### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

### Technical specification

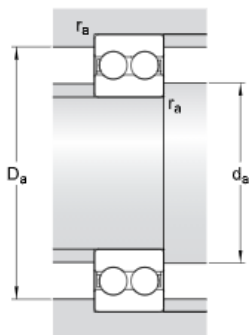


#### DIMENSIONS

|      |            |                   |
|------|------------|-------------------|
| d    | 25 mm      | Bore diameter     |
| D    | 62 mm      | Outside diameter  |
| B    | 24 mm      | Width             |
| d1   | ≈37.3 mm   | Shoulder diameter |
| D1   | ≈49.7 mm   | Shoulder diameter |
| r1,2 | min.1.1 mm | Chamfer dimension |

#### ABUTMENT DIMENSIONS

|    |           |                                   |
|----|-----------|-----------------------------------|
| da | min.32 mm | Diameter of shaft abutment        |
| Da | max.55 mm | Diameter of housing abutment      |
| ra | max.1 mm  | Radius of shaft or housing fillet |



## CALCULATION DATA

|                           |                |              |
|---------------------------|----------------|--------------|
| Basic dynamic load rating | C              | 31.9 kN      |
| Basic static load rating  | C <sub>0</sub> | 22.4 kN      |
| Fatigue load limit        | P <sub>u</sub> | 0.95 kN      |
| Reference speed           |                | 18 000 r/min |
| Limiting speed            |                | 10 000 r/min |
| Minimum load factor       | k <sub>r</sub> | 0.06         |
| Calculation factor        | f <sub>0</sub> | 13.1         |

## MASS

|              |         |
|--------------|---------|
| Mass bearing | 0.34 kg |
|--------------|---------|

## TOLERANCE CLASS

|                        |        |
|------------------------|--------|
| Dimensional tolerances | Normal |
| Radial run-out         | Normal |

## More information

| Product details   | Engineering information                                 | Tools  |
|---|---|--|
| <a href="#">Single row deep groove ball bearings</a>                    | <a href="#">Principles of rolling bearing selection</a> | <a href="#">Bearing Select</a>   |
| <a href="#">Stainless steel deep groove ball bearings</a>               | <a href="#">General bearing knowledge</a>               | <a href="#">SimPro Quick</a>   |
| <a href="#">Single row deep groove ball bearings with filling slots</a> | <a href="#">Bearing selection process</a>               | <a href="#">Engineering Calculator</a>                                 |
| <a href="#">Double row deep groove ball bearings</a>                    | <a href="#">Bearing interfaces</a>                      | <a href="#">LubeSelect for SKF greases</a>                             |
| <a href="#">Bearing data</a>  | <a href="#">Seat tolerances for standard conditions</a> | <a href="#">Heater selection tool</a>                                  |
| <a href="#">Loads</a>   | <a href="#">Selecting internal clearance</a>            | <a href="#">Rolling bearings mounting and dismounting instructions</a> |
| <a href="#">Temperature limits</a>                                      | <a href="#">Lubrication</a>                             |  |
| <a href="#">Permissible speed</a>                                       | <a href="#">Sealing, mounting and dismounting</a>       |  |
| <a href="#">Designation system</a>                                      | <a href="#">Bearing failure and how to prevent it</a>   |  |

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