

6305-2RS1

- Popular item
- SKF Explorer

Deep groove ball bearings

Bearing data

[Tolerances](#),

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

[Radial internal clearance](#),

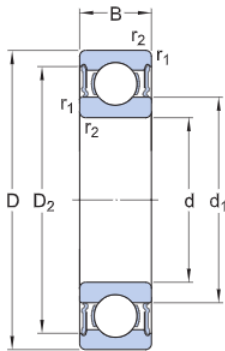
Matched bearing pairs, Stainless steel
 $d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fits](#)

Technical specification

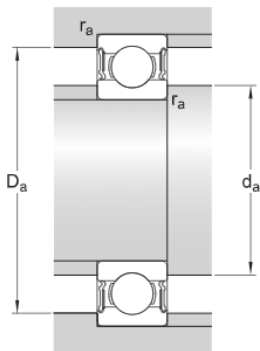


DIMENSIONS

| | | |
|------|------------|-------------------|
| d | 25 mm | Bore diameter |
| D | 62 mm | Outside diameter |
| B | 17 mm | Width |
| d1 | ≈36.6 mm | Shoulder diameter |
| D2 | ≈52.7 mm | Recess diameter |
| r1,2 | min.1.1 mm | Chamfer dimension |

ABUTMENT DIMENSIONS

| | | |
|----|-------------|-----------------------------------|
| da | min.32 mm | Diameter of shaft abutment |
| da | max.36.5 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 | 23.4 kN |
| Basic static load rating | C_0 | 11.6 kN |
| Fatigue load limit | P_u | 0.49 kN |
| Limiting speed | | 7 500 r/min |
| Minimum load factor | k_r | 0.03 |
| Calculation factor | f_0 | 12 |

MASS

| | |
|--------------|---------|
| Mass bearing | 0.24 kg |
|--------------|---------|

TOLERANCE CLASS

| | |
|------------------------|----|
| Dimensional tolerances | P6 |
| Radial run-out | P6 |

More information

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

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