



61900

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

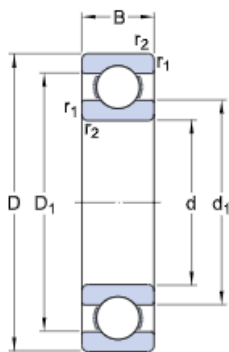
Matched bearing pairs, Stainless steel
d < 10 mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

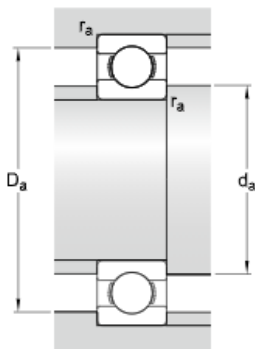


DIMENSIONS

| | | |
|------|------------|-------------------|
| d | 10 mm | Bore diameter |
| D | 22 mm | Outside diameter |
| B | 6 mm | Width |
| d1 | ≈13.9 mm | Shoulder diameter |
| D1 | ≈18.2 mm | Shoulder diameter |
| r1,2 | min.0.3 mm | Chamfer dimension |

ABUTMENT DIMENSIONS

| | | |
|----|------------|-----------------------------------|
| da | min.12 mm | Diameter of shaft abutment |
| Da | max.20 mm | Diameter of housing abutment |
| ra | max.0.3 mm | Radius of shaft or housing fillet |



CALCULATION DATA

| | | |
|---------------------------|----------------|--------------|
| Basic dynamic load rating | C | 2.7 kN |
| Basic static load rating | C ₀ | 1.27 kN |
| Fatigue load limit | P _u | 0.054 kN |
| Reference speed | | 70 000 r/min |
| Limiting speed | | 45 000 r/min |
| Minimum load factor | k _r | 0.02 |
| Calculation factor | f ₀ | 14 |

MASS

| | |
|--------------|---------|
| Mass bearing | 0.01 kg |
|--------------|---------|

TOLERANCE CLASS

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

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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