



# 16018 Deep groove ball bearings

Popular item  
SKF Explorer

## Deep groove ball bearings

### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

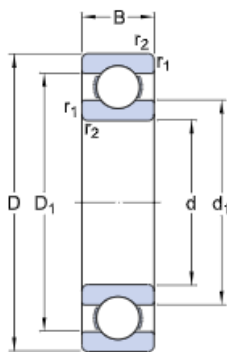
Matched bearing pairs, Stainless steel  
 $d < 10$  mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

## Technical specification

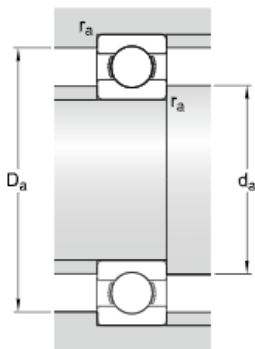


### DIMENSIONS

|           |            |
|-----------|------------|
| d         | 90 mm      |
| D         | 140 mm     |
| B         | 16 mm      |
| $d_1$     | ≈ 106.7 mm |
| $D_1$     | ≈ 123.2 mm |
| $r_{1,2}$ | min. 1 mm  |

### ABUTMENT DIMENSIONS

|       |              |
|-------|--------------|
| $d_a$ | min. 94.6 mm |
| $D_a$ | max. 135 mm  |
| $r_a$ | max. 1 mm    |



## CALCULATION DATA

|                           |       |              |
|---------------------------|-------|--------------|
| Basic dynamic load rating | C     | 43.6 kN      |
| Basic static load rating  | $C_0$ | 39 kN        |
| Fatigue load limit        | $P_u$ | 1.56 kN      |
| Reference speed           |       | 10 000 r/min |
| Limiting speed            |       | 6 300 r/min  |
| Calculation factor        | $k_r$ | 0.02         |
| Calculation factor        | $f_0$ | 16.3         |

## MASS

|              |  |         |
|--------------|--|---------|
| Mass bearing |  | 0.85 kg |
|--------------|--|---------|

## 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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