# 6316 M/C3VL0241

Popular item

## INSOCOAT deep groove ball bearings, single row

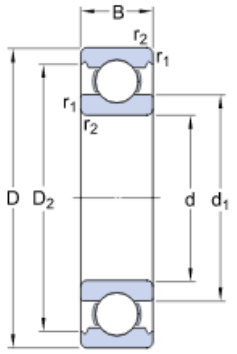
Bearing data

Tolerances,
Normal, P6, P5,
Radial internal clearance,
table

Bearing interfaces

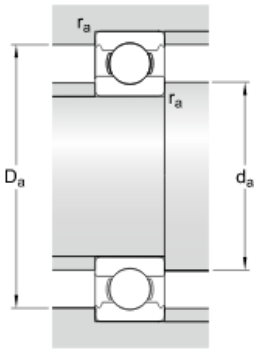
Seat tolerances for standard conditions,
Tolerances and resultant fit

## Technical specification




### DIMENSIONS

| | |
|---|---|
| d | 80 mm |
| D | 170 mm |
| B | 39 mm |
| $d_1$ | ≈ 108 mm |
| $D_2$ | ≈ 149 mm |
| $r_{1,2}$ | min. 2.1 mm |




### ABUTMENT DIMENSIONS

| | |
|---|---|
| $d_a$ | min. 92 mm |
| $D_a$ | min. 154 mm |
| $D_a$ | max. 158 mm |
| $r_a$ | max. 2 mm |

## CALCULATION DATA

| | | |
|---|---|---|
| Basic dynamic load rating | C | 130 kN |
| Basic static load rating | $C_0$ | 86.5 kN |
| Fatigue load limit | $P_u$ | 3.25 kN |
| Reference speed | | 8500 r/min |
| Limiting speed | | 7500 r/min |
| Calculation factor | $k_r$ | 0.03 |
| Calculation factor | $f_0$ | 13.3 |

## MASS

| | |
|---|---|
| Mass bearing | 4.17 kg |

## More information

### Product details

- Designs and variants
- Bearing data
- Loads
- Temperature limits
- Permissible speed
- Design considerations
- Mounting
- Designation system

### Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing interfaces
- Seat tolerances for standard conditions
- Selecting internal clearance
- Lubrication
- External sealing, mounting and dismounting
- Bearing failure and how to prevent it

### Tools

- Bearing Select
- Engineering Calculator
- SimPro Quick
- LubeSelect for SKF greases
- Heater selection tool
- Rolling bearings mounting and dismounting instructions

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