

# 6308

- Popular item
- SKF Explorer

## Deep groove ball bearings

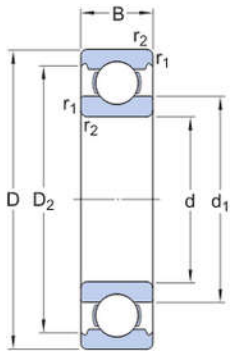
### Bearing data

Tolerances,
Normal (metric), P6, P5, Normal (inch),
Radial internal clearance,
Classes C2 to C5

### Bearing interfaces

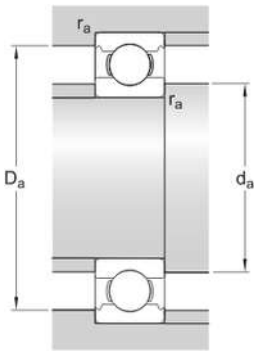
Seat tolerances for standard conditions,
Tolerances and resultant fits

## Technical specification




### DIMENSIONS

| | | |
|---|---|---|
| d | 40 mm | Bore diameter |
| D | 90 mm | Outside diameter |
| B | 23 mm | Width |
| $d_1$ | ≈ 56.11 mm | Shoulder diameter |
| $D_2$ | ≈ 77.7 mm | Recess diameter |
| $r_{1,2}$ | min. 1.5 mm | Chamfer dimension |




### ABUTMENT DIMENSIONS

| | | |
|---|---|---|
| da | min.49 mm | Diameter of shaft abutment |
| Da | max.81 mm | Diameter of housing abutment |
| ra | max.1.5 mm | Radius of shaft or housing fillet |

## CALCULATION DATA

| | | |
|---|---|---|
| Basic dynamic load rating | C | 42.3 kN |
| Basic static load rating | $C_0$ | 24 kN |
| Fatigue load limit | $P_u$ | 1.02 kN |
| Reference speed | | 17 000 r/min |
| Limiting speed | | 11 000 r/min |
| Minimum load factor | $k_r$ | 0.03 |
| Calculation factor | $f_0$ | 13.2 |

## MASS

| | |
|---|---|
| Mass bearing | 0.63 kg |

## TOLERANCE CLASS

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

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