

# 22316 E

Popular item
SKF Explorer

## Spherical roller bearings

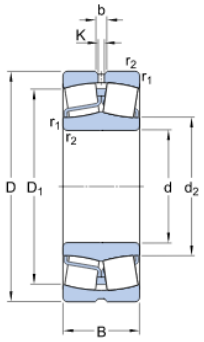
### Bearing data

Tolerances,
Normal, P6, P5, tapered bore 1:12, tapered bore 1:30,
Radial internal clearance,
cylindrical bore, tapered bore

### Bearing interfaces

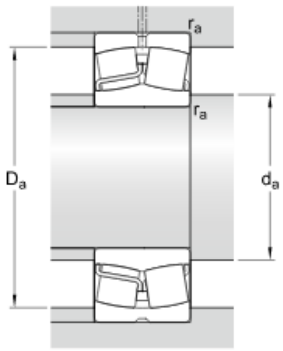
Seat tolerances for standard conditions,
Tolerances and resultant fit

## Technical specification




### DIMENSIONS

| | |
|---|---|
| d | 80 mm |
| D | 170 mm |
| B | 58 mm |
| $d_2$ | ≈ 98.3 mm |
| $D_1$ | ≈ 143 mm |
| b | 8.3 mm |
| K | 4.5 mm |
| $r_{1,2}$ | min. 2.1 mm |




### ABUTMENT DIMENSIONS

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

## CALCULATION DATA

| | | |
|---|---|---|
| Basic dynamic load rating | C | 516 kN |
| Basic static load rating | $C_0$ | 530 kN |
| Fatigue load limit | $P_u$ | 54 kN |
| Reference speed | | 3000 r/min |
| Limiting speed | | 4000 r/min |
| Calculation factor | e | 0.35 |
| Calculation factor | $Y_1$ | 1.9 |
| Calculation factor | $Y_2$ | 2.9 |
| Calculation factor | $Y_0$ | 1.8 |

## MASS

| | |
|---|---|
| Mass bearing | 6.25 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 failure and how to prevent it

### Tools

- SimPro Quick
- Bearing Select
- Engineering Calculator
- Housing Select
- LubeSelect for SKF greases
- Drive-up Method Program
- Heater selection tool
- Oil Injection Method Program
- Rolling bearings mounting and dismounting instructions
- Tool and Accessory Selector for sleeves and shafts

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