

22316 EJA/VA405

Popular item
SKF Explorer

Spherical roller bearings

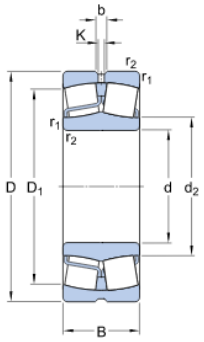
Bearing data

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

Bearing interfaces

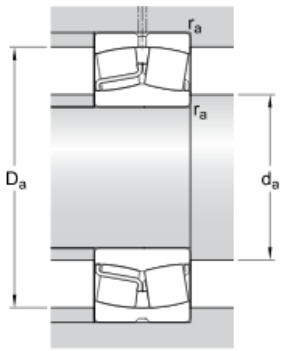
Seat tolerances for standard conditions,
Tolerances and resultant fit

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
Permissible rotational acceleration (oil lubrication)		785 m/s
Permissible linear acceleration (oil lubrication)		216 m/s

MASS

Mass bearing	6.6 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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