



22309 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,](#)

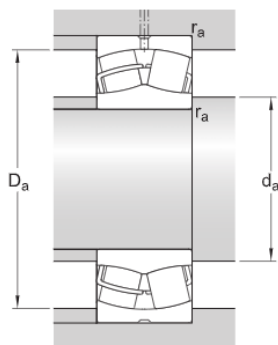
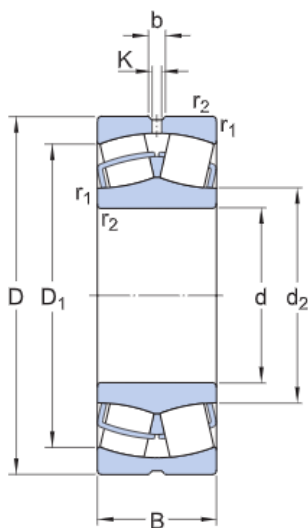
cylindrical bore, tapered bore

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

Technical specification



DIMENSIONS

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	36 mm	Width
d_2	≈ 57.6 mm	Shoulder diameter of inner ring
D_1	≈ 83.4 mm	Shoulder/recess diameter of outer ring
b	6 mm	Width of lubrication groove
K	3 mm	Diameter of lubrication hole
$r_{1,2}$	min. 1.5 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d_c	min. 54 mm	Diameter of shaft abutment
D_i	max. 91 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of fillet

CALCULATION DATA

Basic dynamic load rating	C	190 kN
Basic static load rating	C ₀	183 kN
Fatigue load limit	P _u	19.6 kN
Reference speed		5 300 r/min
Limiting speed		7 000 r/min
Limiting value	e	0.37
Axial load factor	Y ₁	1.8
Axial load factor	Y ₂	2.7
Axial load factor	Y ₀	1.8

MASS

Mass		1.4 kg
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More information

Product details	Engineering information	Tools
Designs and variants	Principles of rolling bearing selection	SimPro Quick
Bearing data	General bearing knowledge	Bearing Select
Loads	Bearing selection process	Engineering Calculator
Temperature limits	Bearing failure and how to prevent it	Housing Select
Permissible speed		LubeSelect for SKF greases
Design considerations		Drive-up Method Program
Mounting		Heater selection tool
Designation system		Oil Injection Method Program
		Rolling bearings mounting and dismounting instructions
		Tool and Accessory Selector for sleeves and shafts

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