



# 22205/20 E

- SKF Explorer

## Spherical roller bearings

### Bearing data

#### Tolerances,

Normal, P6, P5, tapered bore 1:12,  
tapered bore 1:30,

#### Radial internal clearance,

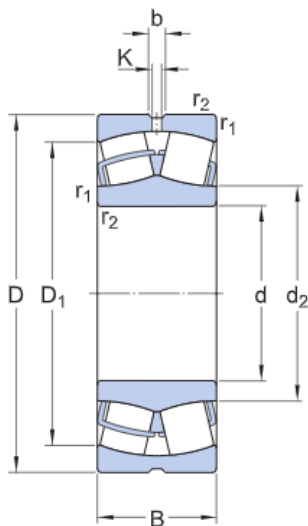
cylindrical bore, tapered bore

### Bearing interfaces

#### Seat tolerances for standard conditions,

#### Tolerances and resultant fit

## Technical specification

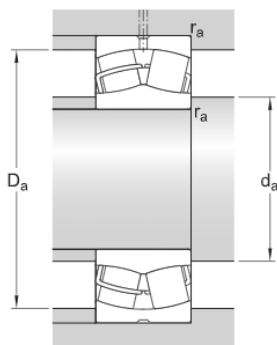


### DIMENSIONS

d	20 mm	Bore diameter
D	52 mm	Outside diameter
B	18 mm	Width
d2	≈31.3 mm	Shoulder diameter of inner ring
D1	≈44.2 mm	Shoulder/recess diameter of outer ring
b	3.7 mm	Width of lubrication groove
K	2 mm	Diameter of lubrication hole
r1,2	min.1 mm	Chamfer dimension

### ABUTMENT DIMENSIONS

da	min.25.6 mm	Diameter of shaft abutment
Da	max.46.4 mm	Diameter of housing abutment
ra	max.1 mm	Radius of fillet



## CALCULATION DATA

Basic dynamic load rating	C	49.9 kN
Basic static load rating	C <sub>0</sub>	44 kN
Fatigue load limit	P <sub>u</sub>	4.75 kN
Reference speed		13 000 r/min
Limiting speed		17 000 r/min
Limiting value	e	0.35
Axial load factor	Y <sub>1</sub>	1.9
Axial load factor	Y <sub>2</sub>	2.9
Axial load factor	Y <sub>0</sub>	1.8

## MASS

Mass		0.28 kg
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## More information

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