



4210 ATN9

Deep groove ball bearings

Bearing data

[Tolerances,](#)

Normal (metric), P6, P5, Normal (inch),

[Radial internal clearance,](#)

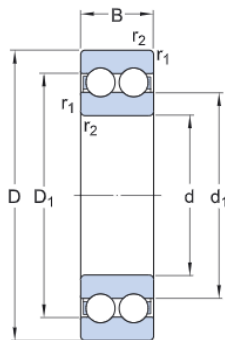
Classes C2 to C5

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

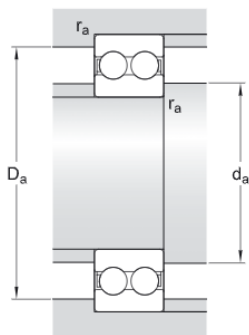


DIMENSIONS

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d ₁	≈ 65.5 mm	Shoulder diameter
D ₁	≈ 77.5 mm	Shoulder diameter
r _{1,2}	min. 1.1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _c min.	57 mm	Diameter of shaft abutment
D _i max.	83 mm	Diameter of housing abutment
r _a max.	1 mm	Radius of shaft or housing fillet



CALCULATION DATA

Basic dynamic load rating	C	41 kN
Basic static load rating	C ₀	40 kN
Fatigue load limit	P _u	1.7 kN
Reference speed		11 000 r/min
Limiting speed		6 000 r/min
Minimum load factor	k _r	0.05
Calculation factor	f ₀	15.4

MASS

Mass bearing	0.58 kg
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TOLERANCE CLASS

Dimensional tolerances	Normal
Radial run-out	Normal

More information

Product details	Engineering information	Tools
Single row deep groove ball bearings	Principles of rolling bearing selection	Bearing Select
Stainless steel deep groove ball bearings	General bearing knowledge	SimPro Quick
Single row deep groove ball bearings with filling slots	Bearing selection process	Engineering Calculator
Double row deep groove ball bearings	Bearing interfaces	LubeSelect for SKF greases
Bearing data	Seat tolerances for standard conditions	Heater selection tool
Loads	Selecting internal clearance	Rolling bearings mounting and dismounting instructions
Temperature limits	Lubrication	
Permissible speed	Sealing, mounting and dismounting	
Designation system	Bearing failure and how to prevent it	

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