

## 4200 ATN9

### Deep groove ball bearings

#### Bearing data

[Tolerances](#),

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

[Radial internal clearance](#),

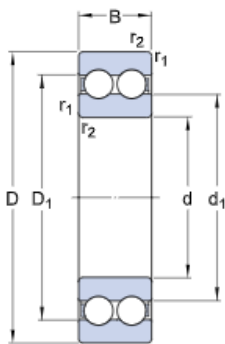
Matched bearing pairs, Stainless steel  
d < 10 mm, Other bearings

#### Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fits](#)

### Technical specification

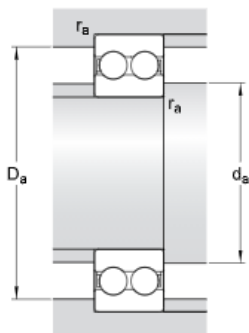


#### DIMENSIONS

d	10 mm	Bore diameter
D	30 mm	Outside diameter
B	14 mm	Width
d1	≈16.7 mm	Shoulder diameter
D1	≈23.3 mm	Shoulder diameter
r1,2	min.0.6 mm	Chamfer dimension

#### ABUTMENT DIMENSIONS

da	min.14.2 mm	Diameter of shaft abutment
Da	max.25.8 mm	Diameter of housing abutment
ra	max.0.6 mm	Radius of shaft or housing fillet



## CALCULATION DATA

Basic dynamic load rating	C	9.23 kN
Basic static load rating	$C_0$	5.2 kN
Fatigue load limit	$P_u$	0.224 kN
Reference speed		40 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	$k_r$	0.05
Calculation factor	$f_0$	12.1

## MASS

Mass bearing	0.049 kg
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## TOLERANCE CLASS

Dimensional tolerances	Normal
Radial run-out	Normal

## More information

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

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