



## 4309 ATN9

### Deep groove ball bearings

#### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

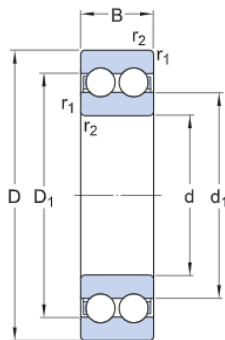
Classes C2 to C5

#### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

### Technical specification

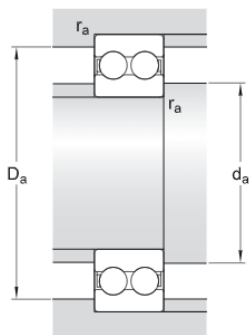


#### DIMENSIONS

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	36 mm	Width
d <sub>1</sub>	≈ 63.5 mm	Shoulder diameter
D <sub>1</sub>	≈ 81.5 mm	Shoulder diameter
r <sub>1,2</sub>	min. 1.5 mm	Chamfer dimension

#### ABUTMENT DIMENSIONS

d <sub>c</sub> min.	54 mm	Diameter of shaft abutment
D <sub>i</sub> max.	91 mm	Diameter of housing abutment
r <sub>a</sub> max.	1.5 mm	Radius of shaft or housing fillet



## CALCULATION DATA

Basic dynamic load rating	C	68.9 kN
Basic static load rating	$C_0$	56 kN
Fatigue load limit	$P_u$	2.4 kN
Reference speed		11 000 r/min
Limiting speed		6 000 r/min
Minimum load factor	$k_r$	0.06
Calculation factor	$f_0$	13.8

## MASS

Mass bearing	1.25 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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