

4206 ATN9

Double row deep groove ball bearing

Double row deep groove ball bearings correspond, in their design and operation, to a pair of single row deep groove ball bearings. They are robust in operation, requiring little maintenance, can operate at high speeds and accommodate radial and axial loads in both directions. They are slightly wider than single row bearings of the same bore and outside diameter but have a considerably higher load carrying capacity.

- Versatile and robust design
- High-speed capability
- Accommodate high axial and radial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	62 mm
Width	20 mm

Performance

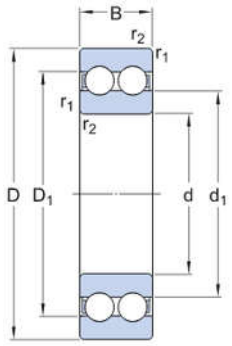
Basic dynamic load rating	26 kN
Basic static load rating	20.8 kN
Limiting speed	9 500 r/min
Reference speed	17 000 r/min

Properties

Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	2
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

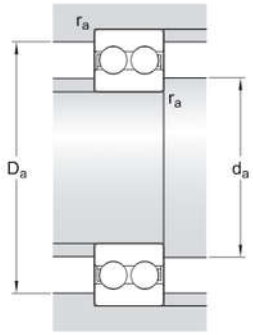
Technical Specification

Dimensions



d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	20 mm	Width
d_1	≈ 40.9 mm	Shoulder diameter
D_1	≈ 51.1 mm	Shoulder diameter
$r_{1,2}$	min. 1 mm	Chamfer dimension

Abutment dimensions



d_a	min. 35.6 mm	Diameter of shaft abutment
D_a	max. 56.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	26 kN
Basic static load rating	C_0	20.8 kN
Fatigue load limit	P_u	0.88 kN
Reference speed		17 000 r/min
Limiting speed		9 500 r/min
Minimum load factor	k_r	0.05
Calculation factor	f_0	14.3

Mass

Mass bearing	0.29 kg

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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