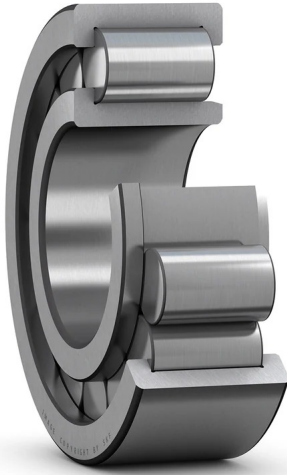


NJG 2308 VH



Single row full complement cylindrical roller bearing, NJG design

Single row full complement cylindrical roller bearings are designed to accommodate very high radial loads in combination with moderate speeds. The bearings incorporate a maximum number of rollers as they are not equipped with a cage. Having two integral flanges on the outer ring and one on the inner ring, NJG design bearings can accommodate axial displacement in one direction. A self-retaining roller complement enables the bearing components to be separated, which facilitates mounting and enables the bearing components to be interchanged.

- Very high radial load carrying capacity
- High radial stiffness
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	33 mm

Performance

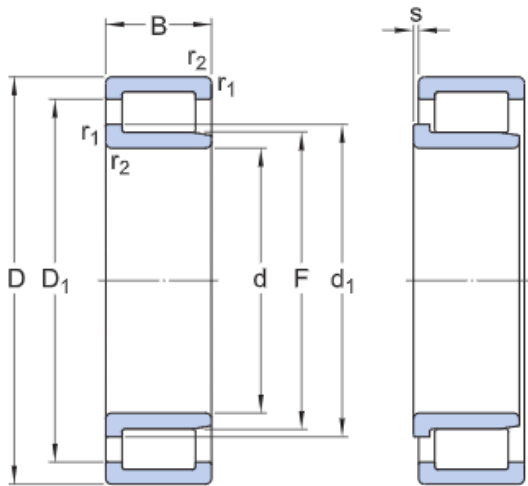
Basic dynamic load rating	145 kN
Basic static load rating	156 kN
Reference speed	3 000 r/min
Limiting speed	3 600 r/min

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Without
Design	Separable
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Coating	Without

Sealing	Without
Lubricant	None
Relubrication feature	Without

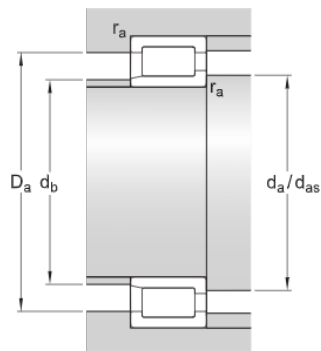
Technical Specification



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
d ₁	≈ 59.1 mm	Shoulder diameter inner ring
D ₁	≈ 75.2 mm	Shoulder diameter outer ring
F	51.15 mm	Raceway diameter inner ring
s	max. 2.4 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
r _{1,2}	min. 1.5 mm	Chamfer dimension

Abutment dimensions



d _a	min. 49 mm	Abutment diameter shaft
d _{as}	54.4 mm	Abutment diameter shaft
d _b	max. 49 mm	Abutment diameter shaft
D _a	max. 81 mm	Abutment diameter housing
r _a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	145 kN
Basic static load rating	C_0	156 kN
Fatigue load limit	P_u	20 kN
Reference speed		3 000 r/min
Limiting speed		3 600 r/min
Calculation factor	k_r	0.35
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass bearing		1 kg
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