

NJG 2308 VHS single row full complement cylindrical roller bearing, NJG design

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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
Tolerance class	Normal
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

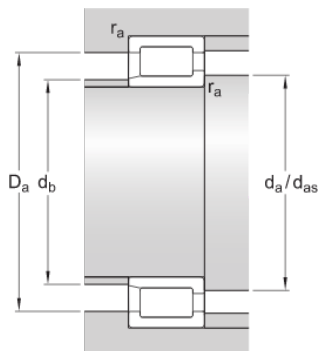


Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	33 mm	Width
d_1	\approx 59.1 mm	Shoulder diameter inner ring
D_1	\approx 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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