

# NCF 2936 CV



## Single row full complement cylindrical roller bearing, NCF 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 inner ring and one flange on the outer ring, NCF design bearings can accommodate axial displacement in one direction. A retaining ring on the outer ring holds the bearing together. The retaining ring should not be loaded axially during operation.

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

## Overview

### Dimensions

Bore diameter	180 mm
Outside diameter	250 mm
Width	42 mm

## Performance

Basic dynamic load rating	391 kN
Basic static load rating	695 kN
Reference speed	1 100 r/min
Limiting speed	1 400 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	Non-separable
Number of flanges, outer ring	1
Number of flanges, inner ring	2
Loose flange	None
Radial internal clearance	CN
Coating	Without
Sealing	Without

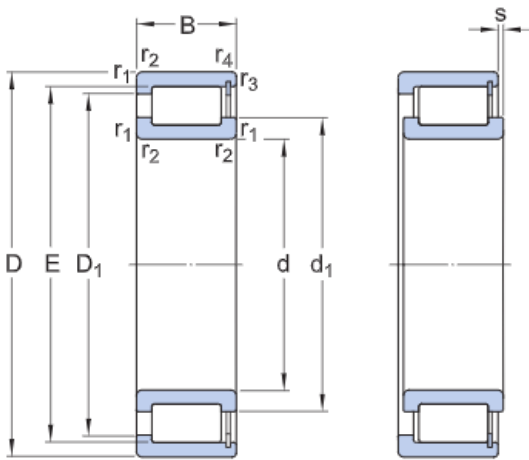
Lubricant

None

Relubrication feature

Without

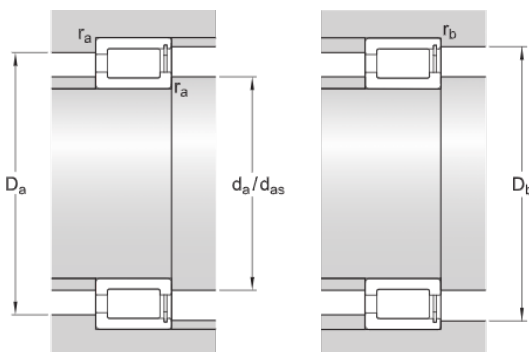
## Technical Specification



### Dimensions

$d$	180 mm	Bore diameter
$D$	250 mm	Outside diameter
$B$	42 mm	Width
$d_1$	$\approx 203$ mm	Shoulder diameter inner ring
$D_1$	$\approx 223$ mm	Shoulder diameter outer ring
$E$	232 mm	Raceway diameter outer ring
$s$	max. 2.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 1.1 mm	Chamfer dimension

### Abutment dimensions



$d_a$	min. 189 mm	Abutment diameter shaft
$d_{as}$	199 mm	Abutment diameter shaft
$D_a$	max. 241 mm	Abutment diameter housing
$D_b$	max. 243 mm	Abutment diameter housing
$r_a$	max. 2 mm	Fillet radius
$r_b$	max. 1 mm	Fillet radius

## Calculation data

Basic dynamic load rating	C	391 kN
Basic static load rating	$C_0$	695 kN
Fatigue load limit	$P_u$	75 kN
Reference speed		1 100 r/min
Limiting speed		1 400 r/min
Calculation factor	$k_r$	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

## Mass

Mass bearing		6.14 kg
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