

NUP 305 ECPSingle row cytinarical ° roller bearing, NUP design

Single row cylindrical roller bearing, NUP design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	62 mm
Width	17 mm

Performance

Basic dynamic load rating	46.5 kN
Basic static load rating	36.5 kN
Reference speed	12 000 r/min
Limiting speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Coating	Without

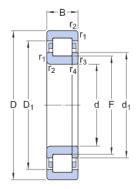


Sealing	Without
Lubricant	None
Relubrication feature	Without



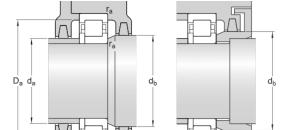
Technical Specification

SKF performance class SKF Explorer



Dimensions

d 25 mm	Bore diameter
D 62 mm	Outside diameter
B 17 mm	Width
$d_1 \approx 38.1 \text{ mm}$	Shoulder diameter of inner ring
D ₁ ≈ 50.25 mm	Shoulder diameter of outer ring
F 34 mm	Raceway diameter of inner ring
r _{1,2} min. 1.1 mm	Chamfer dimension
r _{3,4} min. 1.1 mm	Chamfer dimension of loose flange ring



Abutment dimensions

d _a min. 31 mm	Diameter of spacer sleeve
d _k min. 40 mm	Diameter of shaft abutment
D _{ε max. 54.9 mm}	Diameter of housing abutment
r _a max.1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	С	46.5 kN
Basic static load rating	C_0	36.5 kN



Fatigue load limit	P_{u}	4.55 kN
Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k _r	0.15
Limiting value	е	0.2
Calculation factor	Υ	0.6

Mass

Mass 0.25 kg



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