



Image may differ from product. See technical specification for details.

NKI 15/16

Single row needle roller bearing with machined rings, with flanges

Single row needle roller bearings incorporate cylindrical rollers that are small in diameter relative to their length. Owing to their large number of rollers, the bearings have a high load carrying capacity. The outer ring includes two integral flanges to guide the bearing axially and an annular groove with one or more lubrication holes to facilitate relubrication.

- High radial load carrying capacity
- High stiffness
- Low cross-sectional height
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	15 mm
Outside diameter	27 mm
Width	16 mm

Performance

Basic dynamic load rating	13.4 kN
Basic static load rating	19 kN
Reference speed	20 000 r/min
Limiting speed	24 000 r/min

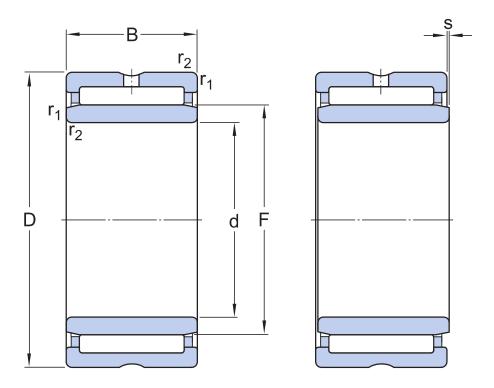
Properties

Bearing part	Complete bearing
Number of rows	1
Outer ring type	Machined (solid)
Aligning feature	Without
Cage	Sheet metal
Number of flanges, outer ring	2
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	With

Logistics

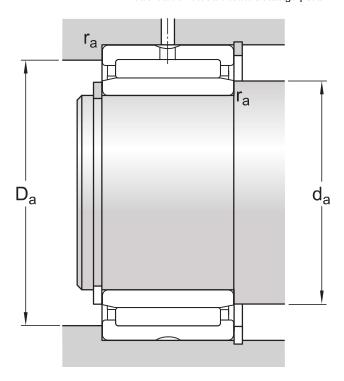
Product net weight	0.039 kg
eClass code	23-05-09-03
UNSPSC code	31171512

Technical specification



Dimensions

d	15 mm	Bore diameter
D	27 mm	Outside diameter
В	16 mm	Width
F	19 mm	Raceway diameter inner ring
r _{1,2}	min. 0.3 mm	Chamfer dimension outer ring
s	max. 0.5 mm	Permissible axial displacement from the normal position of one bearing ring relative



Abutment dimensions

da	min. 17 mm	Smallest permissible abutment diameter shaft, bearings with flanges
D _a	max. 25 mm	Diameter of housing abutment
r _a	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	С	13.4 kN
Basic static load rating	C_0	19 kN
Fatigue load limit	P_{u}	2.28 kN
Reference speed		20 000 r/min
Limiting speed		24 000 r/min

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5, ISO F6 (F_w)
- Radial internal clearance: table



DESIGN CONSIDERATIONS

- Housing tolerances: table
- Shaft tolerances: Operating clearance

More Information

Product details	Engineering information	Tools
Designs and variants		SimPro Quick
General bearing specifications	Principles of rolling bearing selection	Bearing Select
Loads	General bearing knowledge	Engineering Calculator
Temperature limits	Bearing selection process	LubeSelect for SKF greases
Permissible speed	Bearing failure and how to prevent it	Heater Selection Tool
Design considerations		skf.com/mount
Designation system	_	



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