

NK 15/16



Single row needle roller bearings without an inner ring consist of an outer ring with a needle roller and cage assembly. They are an excellent choice for compact bearing arrangements in applications where hardened and ground raceways can be provided on the shaft. 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



Dimensions		
F_w	15 mm	Diameter under rollers
D	23 mm	Outside diameter
C	16 mm	Width
$r_{1,2}$	min. 0.3 mm	Chamfer dimension outer ring



Abutment dimensions		
D_a	max. 21 mm	Diameter of housing abutment
r_a	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	11 kN
Basic static load rating	C_0	14 kN

Fatigue load limit	P_u	1.66 kN
Reference speed		24 000 r/min
Limiting speed		26 000 r/min



Associated seals	
G 15x23x3	Radial shaft seal with a low cross-sectional height, single lip
SD 15x23x3	Radial shaft seal with a low cross-sectional height, double lip

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