

NK 95/36

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	95 mm	Diameter under rollers
D	115 mm	Outside diameter
C	36 mm	Width
r _{1,2}	min. 1 mm	Chamfer dimension outer ring



Abutment dimensions		
D _a	max. 110 mm	Diameter of housing abutment
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	105 kN
Basic static load rating	C ₀	232 kN

Fatigue load limit	P_u	30 kN
Reference speed		4 300 r/min
Limiting speed		4 800 r/min



Associated seals	
95x115x12 HMS5 RG	Radial shaft seal

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