

NJ 316 ECP

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 on the inner ring, NJ design bearings can accommodate axial displacement in one direction. 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 one direction
- Separable design



Dimensions		
d	80 mm	Bore diameter
D	170 mm	Outside diameter
B	39 mm	Width
d ₁	≈ 110 mm	Shoulder diameter of inner ring
D ₁	≈ 142.7 mm	Shoulder diameter of outer ring
F	101 mm	Raceway diameter of inner ring
r _{1,2}	min. 2.1 mm	Chamfer dimension
r _{3,4}	min. 2.1 mm	Chamfer dimension
s	max. 2.1 mm	Permissible axial displacement



Abutment dimensions		
d _a	min. 92 mm	Diameter of spacer sleeve
d _a	max. 98 mm	Diameter of spacer sleeve
d _b	min. 113 mm	Diameter of shaft abutment

D_a	max. 157.8 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	300 kN
Basic static load rating	C_0	290 kN
Fatigue load limit	P_u	36 kN
Reference speed		4 300 r/min
Limiting speed		5 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Associated products

Angle ring	HJ 316 EC
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Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (), P6, Normal (inch)
- Radial internal clearance: cylindrical bore, tapered bore
- Axial internal clearance: NUP, NJ + HJ

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit