

N 314 ECP

Popular item
SKF Explorer

Cylindrical roller bearings, single row

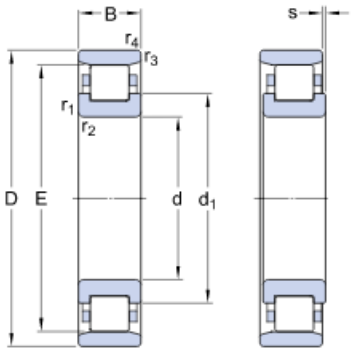
Bearing data

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

Bearing interfaces

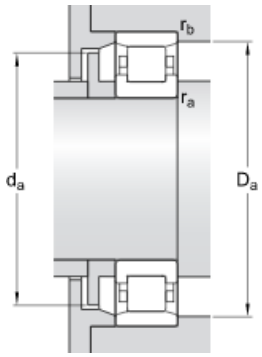
Seat tolerances for standard conditions,
Tolerances and resultant fit

Technical specification



DIMENSIONS

d	70 mm
D	150 mm
B	35 mm
d_1	≈ 97.3 mm
E	133 mm
$r_{1,2}$	min. 2.1 mm
$r_{3,4}$	min. 2.1 mm
s	max. 1.8 mm



ABUTMENT DIMENSIONS

d_a	min. 82 mm
d_a	max. 130 mm
D_a	min. 136 mm
D_a	max. 138 mm
r_a	max. 2 mm
r_b	max. 2 mm

CALCULATION DATA

Basic dynamic load rating	C	236 kN
Basic static load rating	C_0	228 kN
Fatigue load limit	P_u	29 kN
Reference speed		4800 r/min
Limiting speed		5600 r/min
Calculation factor	k_r	0.12
Limiting value	e	0.2
Axial load factor	Y	0.6

MASS

Mass bearing	2.67 kg

More information

Product details

- Designs and variants
- Bearing data
- Loads
- Temperature limits
- Permissible speed
- Design considerations
- Designation system

Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing failure and how to prevent it

Tools

- SimPro Quick
- Bearing Select
- Engineering Calculator
- LubeSelect for SKF greases
- Heater selection tool
- Oil Injection Method Program
- Rolling bearings mounting and dismounting instructions

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