# Technical datasheet

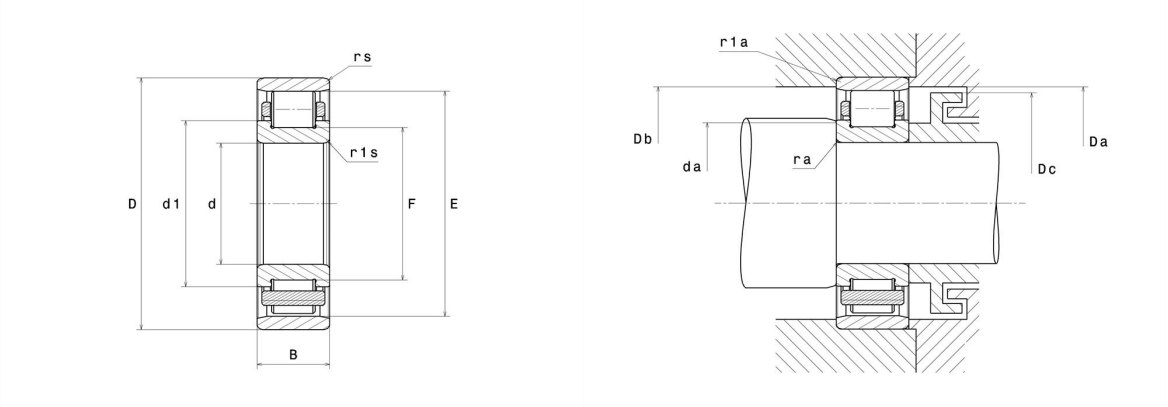
## N.316.E.G15

Single row cylindrical roller bearings



Single row cylindrical roller bearing, floating, separable, polyamide cage

## Visual(s)




## Product definition

| | |
|---|---|
| **d** | 80 mm |
| **D** | 170 mm |
| **B** | 39 mm |
| **E** | 151 mm |
| **F** | 101 mm |
| **d1** | 110.4 mm |
| **rs min** | 2.1 mm |
| **r1s min** | 2.1 mm |
| **Radial clearance class** | CN |
| **Mass (without HJ ring)** | 4.12 kg |
| **Brand** | SNR |

## Product performance

| | |
|---|---|
| **Dynamic load, C** | 259 kN |
| **Static load, C0** | 287 kN |
| **Fatigue limit load, Cu** | 32.7 kN |
| **Nref** | 3,800 rpm |
| **Nlim** | 4,900 rpm |
| **Min operating temperature, Tmin** | -20 °C |
| **Max operating temperature, Tmax** | 120 °C |
| **Characteristic cage frequency, FTF** | 0.4 Hz |
| **Characteristic rolling element frequency, BSF** | 4.84 Hz |
| **Characteristic outer ring frequency, BPF0** | 5.21 Hz |
| **Characteristic inner ring frequency, BPFI** | 7.79 Hz |

## Abutment dimensions

| | |
|---|---|
| **da min** | 91 mm |
| **Da max** | 159 mm |
| **Db min** | 153 mm |
| **Dc max** | 147 mm |
| **ra max** | 2 mm |
| **r1a max** | 2 mm |

## Calculation factors

Equivalent dynamic radial load

$P = Fr$

Equivalent static radial load

$P_0 = Fr$