Technical data

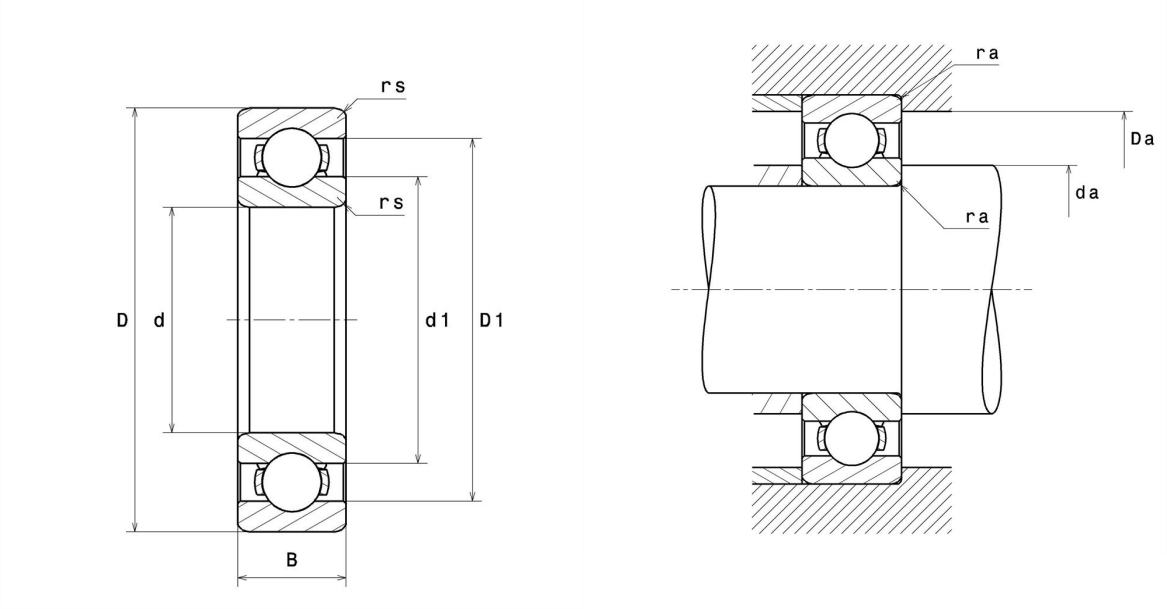
6316

Single row deep groove ball bearings



Deep groove ball bearing, radial contact, pressed steel cage, open

Visual(s)



Product definition

d	80 mm
D	170 mm
B	39 mm
d1	104 mm
D1	146.4 mm
rs min	2.1 mm
Radial clearance class	CN
Mass	3.31 kg
Brand	SNR

Product performance

Dynamic load, C	122 kN
Static load, C0	86.7 kN
Fatigue limit load, Cu	3.5 kN
f0	13.3
Nref	5,500 Tr/min
Nlim	6,600 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.39 Hz
Characteristic rolling element frequency, BSF	4.15 Hz
Characteristic outer ring frequency, BPF0	3.09 Hz
Characteristic inner ring frequency, BPFI	4.91 Hz

Abutment dimensions

da min	91 mm
da max	104 mm
Ce min	0 mm
Da max	159 mm
ra max	2 mm

Calculation factors

Equivalent dynamic radial load

P = X.Fr + Y.Fa

$\frac{f_0 F_a}{C_0}$	e	Fa / Fr ≤ e		Fa / Fr > e	
		X	Y	X	Y
0.172	0.19	1	0	0.56	2.3
0.345	0.22				1.99
0.689	0.26				1.71
1.03	0.28				1.55
1.38	0.3				1.45
2.07	0.34				1.31
3.45	0.38				1.15
5.17	0.42				1.04
6.89	0.44				1

Equivalent static radial load

Po = Xo.Fr + Yo.Fa

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If Po <Fr, then use Po = Fr