Technical data

21316.VKC3

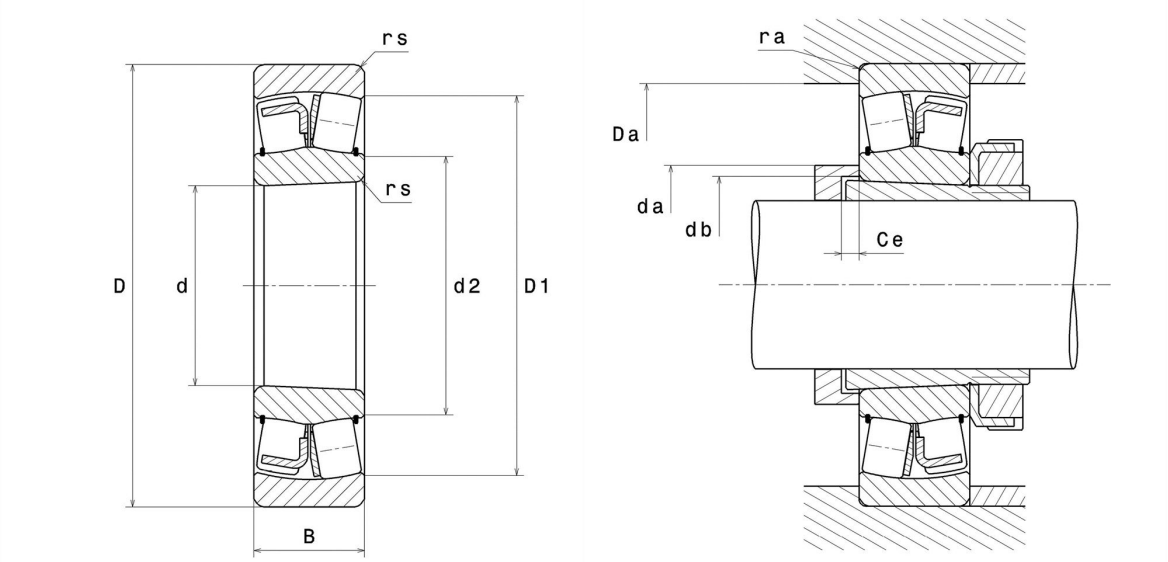
Double row spherical roller bearings



Spherical roller bearing, pressed steel cage, tapered bore 1:12

ULTAGE

Visual(s)



Product definition

d	80 mm
D	170 mm
B	39 mm
d2	104.3 mm
D1	144.6 mm
rs min	2.1 mm
Number of lubrication holes	0
b	2 mm
k	0 mm
Associated sleeve reference	H316
e	0.23
Y1	2.95
Y2	4.39
Y0	2.89
Radial clearance class	C3
Mass	4.21 kg
Brand	SNR

Product performance

Dynamic load, C	13.3 kN
Static load, C0	305 kN
Fatigue limit load, Cu	37.6 kN
Nref	3,800 Tr/min
Nlim	4,900 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.87 Hz
Characteristic outer ring frequency, BPF0	6.27 Hz
Characteristic inner ring frequency, BPFI	8.73 Hz

Abutment dimensions

da min	92 mm
da max	2 mm
db min	85 mm
Ce min	6 mm
Da max	158 mm
ra max	2 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa/Fr \leq e$		$Fa/Fr > e$	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .