Technical data

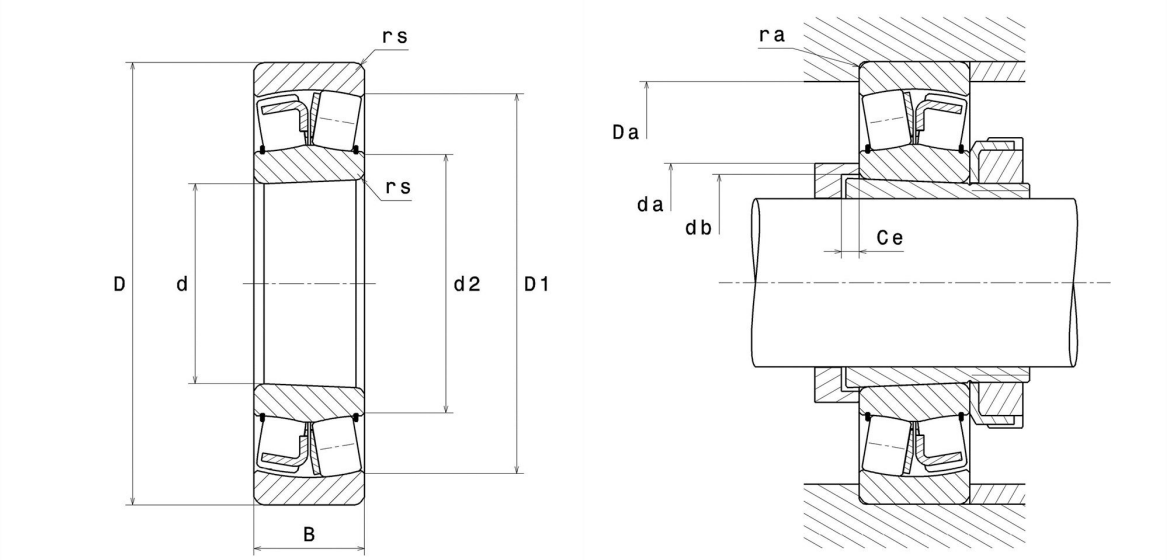
21314.VKC3

Double row spherical roller bearings

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

ULTAGE

Visual(s)



Product definition

d	70 mm
D	150 mm
B	35 mm
d2	91.3 mm
D1	126.8 mm
rs min	2.1 mm
Number of lubrication holes	0
b	2 mm
k	0 mm
Associated sleeve reference	H314
e	0.23
Y1	2.9
Y2	4.31
Y0	2.83
Radial clearance class	C3
Mass	2.95 kg
Brand	SNR

Product performance

Dynamic load, C	11.9 kN
Static load, C0	240 kN
Fatigue limit load, Cu	30.9 kN
Nref	4,200 Tr/min
Nlim	5,500 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	5.84 Hz
Characteristic outer ring frequency, BPF0	6.27 Hz
Characteristic inner ring frequency, BPFI	8.73 Hz

Abutment dimensions

da min	82 mm
da max	2 mm
db min	75 mm
Ce min	6 mm
Da max	138 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 .