Technical data

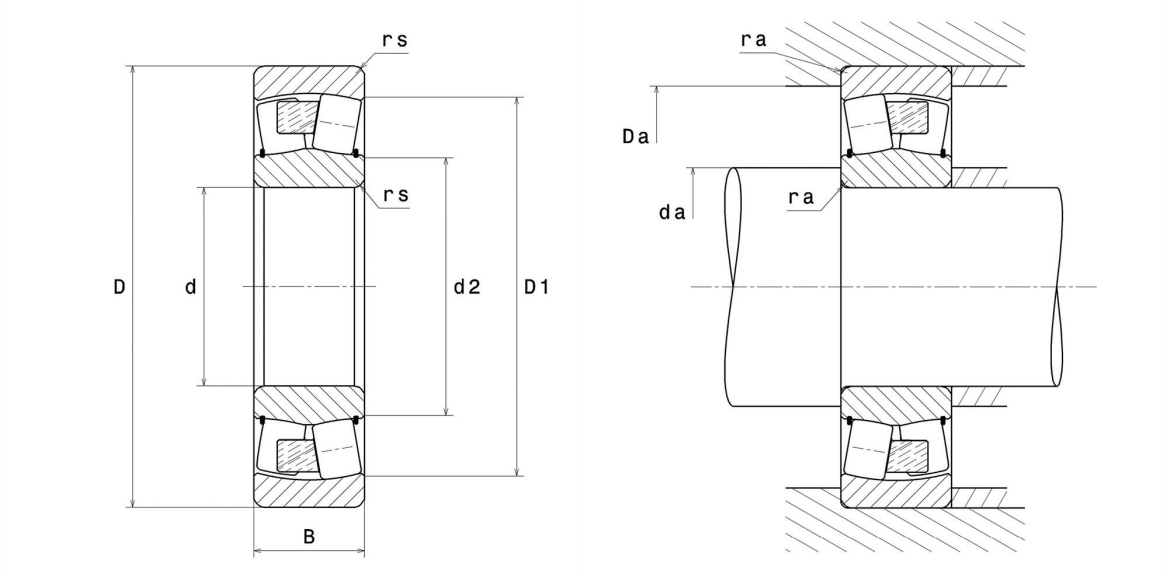
21318.VMC3

Double row spherical roller bearings

Spherical roller bearing, one-piece machined cage

ULTAGE

Visual(s)



Product definition

d	90 mm
D	190 mm
B	43 mm
D1	161.5 mm
rs min	3 mm
Number of lubrication holes	0
b	2 mm
k	0 mm
Associated sleeve reference	P0
e	0.22
Y1	3
Y2	4.47
Y0	2.93
Radial clearance class	C3
Mass	6.11 kg
Brand	SNR

Product performance

Dynamic load, C	14.8 kN
Static load, C0	398 kN
Fatigue limit load, Cu	48.6 kN
Nref	3,400 Tr/min
Nlim	4,300 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	6.02 Hz
Characteristic outer ring frequency, BPF0	6.72 Hz
Characteristic inner ring frequency, BPFI	9.28 Hz

Abutment dimensions

da min	104 mm
da max	2.5 mm
Da max	176 mm
ra max	2.5 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 .