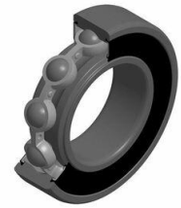


Technical data

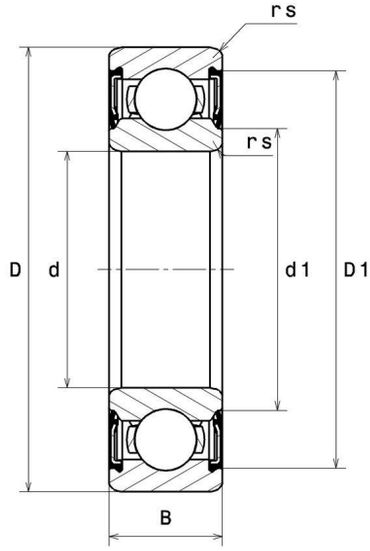
6206.FT150

Single row deep groove ball bearings

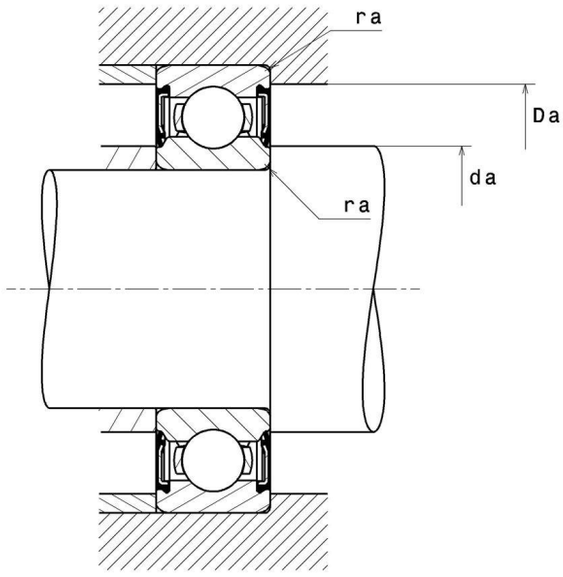
TOPLINE deep groove ball bearing, radial contact, pressed steel cage, contact seals on both sides, applications up to 150°C.

TOPLINE

VISUAL (S)



6206.FT150
Single row deep groove ball bearings



PRODUCT PERFORMANCE	
Dynamic load, C	19,2 kN
Static load, C0	11,3 kN
Fatigue limit load, Cu	0,51 kN
Coefficient f0	13.8
Mechanical Limit Speed Nlim	7300 tr/min
Min operating temperature, Tmin	-30 °C
Max operating temperature, Tmax	150 °C
Characteristic cage frequency, FTF	0.396 Hz
Characteristic rolling element frequency, BSF	4.622 Hz
Characteristic outer ring frequency, BPF0	3.568 Hz
Characteristic inner ring frequency, BPFI	5.432 Hz

PRODUCT DIMENSIONS	
Internal diameter d	30 mm
External diameter D	62 mm
Bearing/Inner ring width(B)	16 mm
External diameter inner ring d1	37,9 mm
Inner diameter outer ring D1	55,1 mm
Min fillet radius rs	1 mm

6206.FT150
Single row deep groove ball bearings

PRODUCT DIMENSIONS	
Radial clearance class	C3
Mass	0,199 kg
Brand	SNR

ABUTMENT	
Min shoulder diameter IR da min	35 mm
Max shoulder diameter IR da max	37,9 mm
Max shoulder diameter OR Da max	57 mm
Max shaft & housing fillet radius ra max	1 mm

INDUSTRY CALCUL 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