7308 BEP Angular contact ball bearings, single row

- Popular item

Angular contact ball bearings, single row

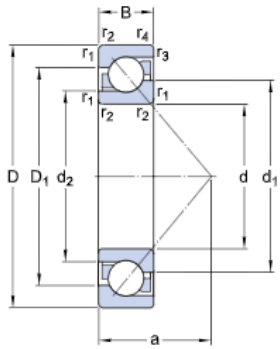
Bearing data

Tolerances,
Normal (metric), P6, P5, Normal (inch),
Internal clearance,
CA+CB+CC, G,
Preload,
GA+GB+GC

Bearing interfaces

Seat tolerances for standard conditions,
Tolerances and resultant fit

Technical specification

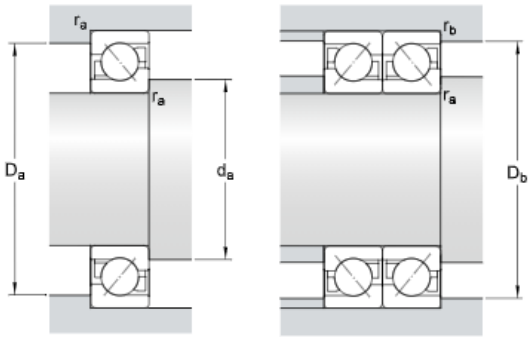


DIMENSIONS

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d1	≈ 59.7 mm	Shoulder diameter inner ring (large side face)
d2	≈ 49.55 mm	Shoulder diameter inner ring (small side face)
D1	≈ 71.6 mm	Shoulder diameter outer ring (large side face)
a	39 mm	Distance pressure point
$r_{1,2}$	min. 1.5 mm	Chamfer dimension
r3,4	min. 1 mm	Chamfer dimension outer ring small side face

ABUTMENT DIMENSIONS

d_a	min. 49 mm	Abutment diameter shaft
D_a	max. 81 mm	Abutment diameter housing
D_1	max. 84.4 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius
r_b	max. 1 mm	Fillet radius



CALCULATION DATA

C	46.2 kN	Basic dynamic load rating
C_0	30.5 kN	Basic static load rating
P_u	1.29 kN	Fatigue load limit
	9 500 r/min	Reference speed
	9 000 r/min	Limiting speed
A	0.017	Calculation factor
k_r	0.1	Calculation factor
e	1.14	Calculation factor

SINGLE BEARING OR BEARING PAIR ARRANGED IN TANDEM

X	0.35	Calculation factor
Y_0	0.26	Calculation factor
Y_2	0.57	Calculation factor

BEARING PAIR ARRANGED BACK-TO-BACK OR FACE-TO-FACE

X	0.57	Calculation factor
Y_0	0.52	Calculation factor
Y_1	0.55	Calculation factor
Y_2	0.93	Calculation factor