



7307 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,](#)

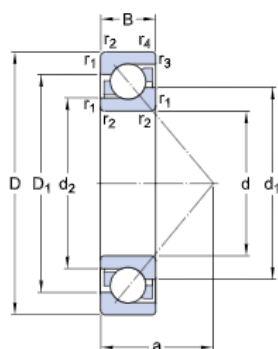
GA+GB+GC

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

Technical specification



DIMENSIONS

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d1	≈ 52.5 mm	Shoulder diameter inner ring (large side face)
d2	≈ 43.62 mm	Shoulder diameter inner ring (small side face)
D1	≈ 63.45 mm	Shoulder diameter outer ring (large side face)
a	35 mm	Distance pressure point
r _{1,2}	min. 1.5 mm	Chamfer dimension
r _{3,4}	min. 1 mm	Chamfer dimension outer ring small side face

ABUTMENT DIMENSIONS

d _e min. 44 mm	Abutment diameter shaft
D _i max. 71 mm	Abutment diameter housing
D _j max. 74.4 mm	Abutment diameter housing
r _a max. 1.5 mm	Fillet radius
r _b max. 1 mm	Fillet radius



CALCULATION DATA

C	39 kN	Basic dynamic load rating
C ₀	24.5 kN	Basic static load rating
P _u	1.04 kN	Fatigue load limit
	11 000 r/min	Reference speed
	10 000 r/min	Limiting speed
A	0.011	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