



# 7305 BE-2RZP 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](#),

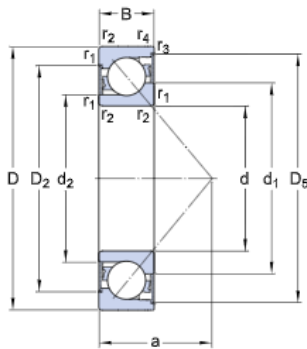
GA+GB+GC

### Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fit](#)

## Technical specification

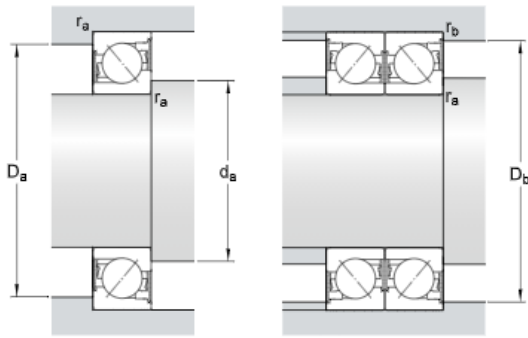


### DIMENSIONS

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
d1	≈ 39.75 mm	Shoulder diameter inner ring (large side face)
d2	≈ 32.38 mm	Shoulder diameter inner ring (small side face)
D2	≈ 50.45 mm	Recess diameter outer ring (large side face)
D5	≈ 55.4 mm	Recess diameter outer ring (small side face)
a	26.8 mm	Distance pressure point
r <sub>1,2</sub>	min. 1.1 mm	Chamfer dimension
r <sub>3,4</sub>	min. 0.6 mm	Chamfer dimension outer ring small side face

### ABUTMENT DIMENSIONS

d <sub>e</sub> min.	32 mm	Abutment diameter shaft
d <sub>e</sub> max.	39 mm	Abutment diameter shaft
D <sub>i</sub> max.	55 mm	Abutment diameter housing



$D_i$ max. 57.8 mm	Abutment diameter housing
$r_a$ max. 1 mm	Fillet radius
$r_b$ max. 0.6 mm	Fillet radius

## CALCULATION DATA

C	24.2 kN	Basic dynamic load rating
$C_0$	14 kN	Basic static load rating
$P_u$	0.6 kN	Fatigue load limit
	14 000 r/min	Reference speed
	11 000 r/min	Limiting speed
A	0.004	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