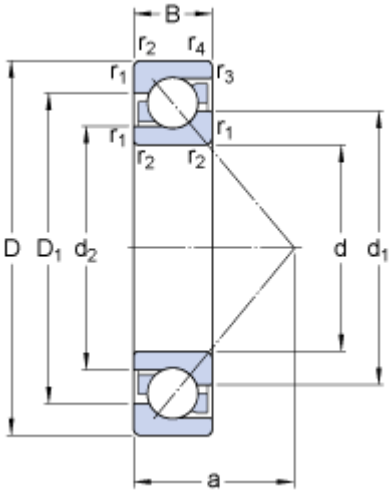
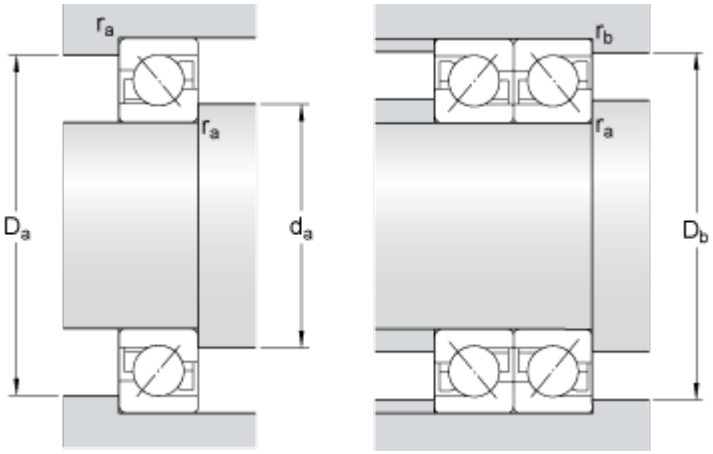
7209 BEP

Dimensions



d		45	mm
D		85	mm
B		19	mm
d_1	≈	60.85	mm
d_2	≈	52.68	mm
D_1	≈	70.15	mm
a		37	mm
$r_{1,2}$	min.	1.1	mm
$r_{3,4}$	min.	0.6	mm

Abutment dimensions



d_a	min.	52	mm
D_a	max.	78	mm
D_b	max.	80.8	mm
r_a	max.	1	mm
r_b	max.	0.6	mm

Calculation data

Bearing pair arranged back-to-back or face-to-face

Basic dynamic load rating	C	35.8	kN
Basic static load rating	C_0	26	kN
Fatigue load limit	P_u	1.1	kN
Reference speed		9000	r/min
Limiting speed		9000	r/min
Calculation factor	k_r	0.095	
Calculation factor	k_a	1.4	
Calculation factor	e	1.14	
Calculation factor	X	0.57	

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

Single bearing or bearing pair arranged in tandem

Calculation factor	X	0.35	
Calculation factor	Y_0	0.26	
Calculation factor	Y_1	0	
Calculation factor	Y_2	0.57	

Mass

Mass bearing	0.42	kg