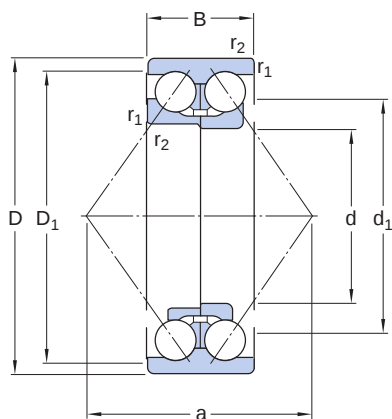


3309 DMA

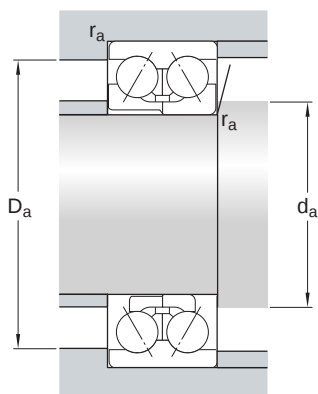
Double row angular contact ball bearings, with two-piece inner ring, correspond to a pair of single row angular contact ball bearings in a back-to-back arrangement, while requiring less axial space than the equivalent pair of single row angular contact ball bearings. The two-piece inner ring enables incorporation of a larger number of balls, with a larger contact angle, providing a high load carrying capacity, especially in the axial direction.



- Accommodate very high axial loads in both directions, radial loads, and tilting moments
- Suitable where a stiff bearing arrangement is required
- Separable design means outer ring with ball and cage assemblies can be mounted independently of the inner ring halves



Dimensions		
d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	39.7 mm	Width
d ₁	≈ 70 mm	Shoulder diameter inner ring for two-piece inner ring
D ₁	≈ 86.35 mm	Shoulder diameter outer ring
r _{1,2}	min. 1.5 mm	Chamfer dimension inner ring for two-piece inner ring
a	93 mm	Distance pressure point(s)



Abutment dimensions		
d _a	min. 54 mm	Abutment diameter shaft
D _a	max. 91 mm	Abutment diameter housing
r _a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	79.3 kN
Basic static load rating	C ₀	69.5 kN
Fatigue load limit	P _u	3 kN
Reference speed		7 500 r/min
Limiting speed		6 300 r/min
Calculation factor	k _r	0.095
Limiting value	e	1.34
Calculation factor	X	0.54
Calculation factor	Y ₀	0.44
Calculation factor	Y ₁	0.47
Calculation factor	Y ₂	0.81

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5
- Internal clearance: table, drawing no

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit