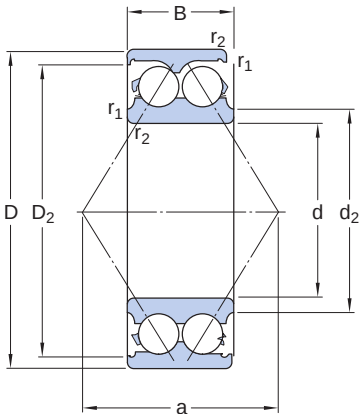
3303 ATN9

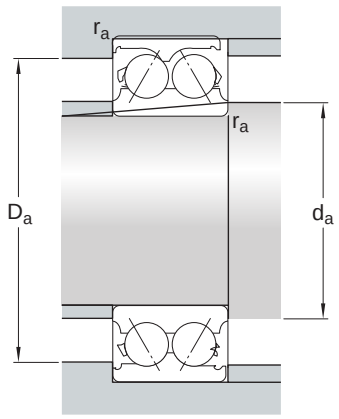
Double row angular contact ball bearings correspond, in their design and operation, to a pair of single row angular contact ball bearings in a back-to-back arrangement, while requiring less axial space. They can operate at high speeds and are more suitable than deep groove ball bearings for supporting large axial forces in both directions.

- High-speed capability
- Accommodate relatively high radial loads, high axial loads in both directions and tilting moments
- Suitable where a stiff bearing arrangement is required
- Require less axial space than equivalent pair of single row angular contact ball bearings



Dimensions

d	17 mm	Bore diameter
D	47 mm	Outside diameter
B	22.2 mm	Width
d_2	≈ 25.7 mm	Recess diameter inner ring shoulder
D_2	≈ 40.15 mm	Recess diameter outer ring shoulder
$r_{1,2}$	min. 1 mm	Chamfer dimension inner ring
a	28 mm	Distance pressure point(s)



Abutment dimensions

d_a	min. 22.6 mm	Abutment diameter shaft
D_a	max. 41.4 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	21.6 kN
Basic static load rating	C_0	12.7 kN
Fatigue load limit	P_u	0.54 kN
Reference speed		17 000 r/min
Limiting speed		14 000 r/min
Calculation factor	k_r	0.07
Limiting value	e	0.8
Calculation factor	X	0.63
Calculation factor	Y_0	0.66
Calculation factor	Y_1	0.78
Calculation factor	Y_2	1.24

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