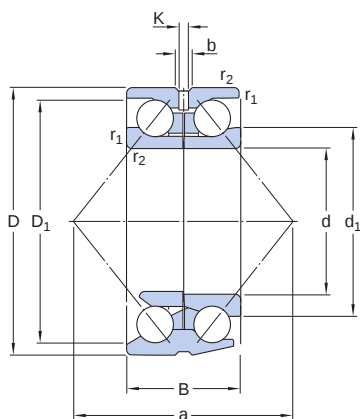


305286 D

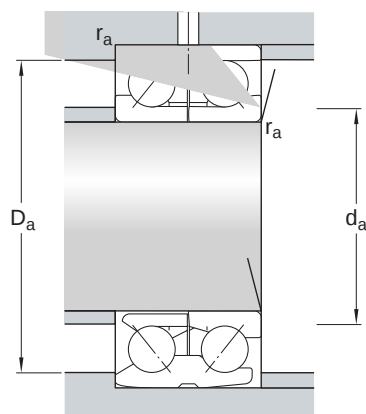
Double row angular contact ball bearing, with two-piece inner ring and relubrication feature, correspond to a pair of single row angular contact ball bearings in a back-to-back arrangement. The two-piece inner ring enables incorporation of more balls, resulting in higher load carrying capacity. The annular lubrication groove and holes in the outer ring facilitates relubrication.



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



| Dimensions       |            |                                                       |
|------------------|------------|-------------------------------------------------------|
| d                | 150 mm     | Bore diameter                                         |
| D                | 225 mm     | Outside diameter                                      |
| B                | 73 mm      | Width                                                 |
| d <sub>1</sub>   | ≈ 179.7 mm | Shoulder diameter inner ring for two-piece inner ring |
| D <sub>1</sub>   | ≈ 207 mm   | Shoulder diameter outer ring                          |
| b                | 5.5 mm     | Width annular lubrication groove at outer ring        |
| K                | 3 mm       | Diameter lubrication hole (outer ring)                |
| r <sub>1,2</sub> | min. 2 mm  | Chamfer dimension inner ring for two-piece inner ring |
| a                | 195 mm     | Distance pressure point(s)                            |



### Abutment dimensions

|       |             |                           |
|-------|-------------|---------------------------|
| $d_a$ | min. 155 mm | Abutment diameter shaft   |
| $D_a$ | max. 206 mm | Abutment diameter housing |
| $r_a$ | max. 2 mm   | Fillet radius             |

### Calculation data

|                           |       |             |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C     | 182 kN      |
| Basic static load rating  | $C_0$ | 265 kN      |
| Fatigue load limit        | $P_u$ | 7.5 kN      |
| Reference speed           |       | 1 700 r/min |
| Limiting speed            |       | 2 000 r/min |
| Calculation factor        | $k_r$ | 0.095       |
| Limiting value            | 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        |

### 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

AGA BEARINGS