

C 2207 V

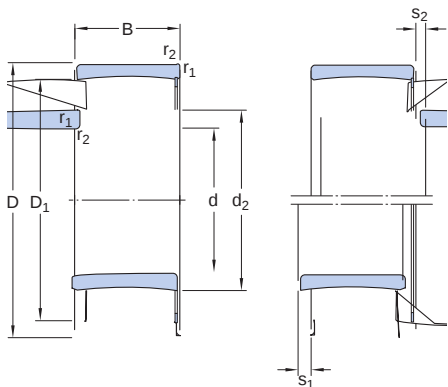


CARB toroidal roller bearings are unique: as well as accommodating misalignment without increased stress levels, they also provide frictionless axial movement within the bearing in the non-locating position in self-aligning bearing arrangements. This full complement bearing, which has a lower speed rating, uses as many rollers as possible, giving it the highest possible load rating.

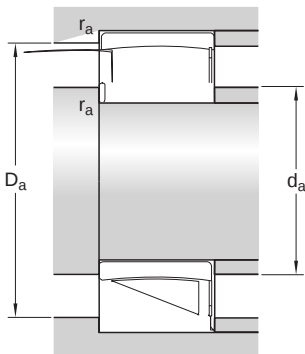
- Accommodate misalignment and axial displacement within the bearing
- Very high radial load carrying capacity
- Provide frictionless axial movement
- Long bearing system life

Bore type

Cylindrical



| Dimensions       |             |                                           |
|------------------|-------------|-------------------------------------------|
| d                | 35 mm       | Bore diameter                             |
| D                | 72 mm       | Outside diameter                          |
| B                | 23 mm       | Width                                     |
| d <sub>2</sub>   | ≈ 44.8 mm   | Shoulder diameter of inner ring           |
| D <sub>1</sub>   | ≈ 60.7 mm   | Shoulder or recess diameter of outer ring |
| s <sub>1</sub>   | max. 5.7 mm | Permissible axial displacement            |
| s <sub>2</sub>   | max. 2.7 mm | Permissible axial displacement            |
| r <sub>1,2</sub> | min. 1.1 mm | Chamfer dimension                         |



| Abutment dimensions |            |                            |
|---------------------|------------|----------------------------|
| d <sub>a</sub>      | min. 42 mm | Diameter of shaft abutment |
| d <sub>a</sub>      | max. 57 mm | Diameter of shaft abutment |
| D <sub>a</sub>      | max. 65 mm | Abutment diameter housing  |
| r <sub>a</sub>      | max. 1 mm  | Radius of fillet           |

## Calculation data

|                           |                |              |
|---------------------------|----------------|--------------|
| AGA performance class     |                | AGA Explorer |
| Basic dynamic load rating | C              | 95 kN        |
| Basic static load rating  | C <sub>0</sub> | 96.5 kN      |
| Fatigue load limit        | P <sub>u</sub> | 11.4 kN      |
| Limiting speed            |                | 5 300 r/min  |
| Misalignment factor       | k <sub>1</sub> | 0.094        |
| Internal clearance factor | k <sub>2</sub> | 0.121        |

## Tolerances and clearances

### GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P5, tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

### BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit