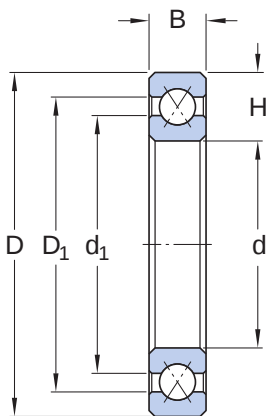


KDN.S09003XS0

Four-point contact ball bearings can accommodate radial, axial and moment loads simultaneously. One bearing series is based on a single cross section which remains constant as the bore diameter increases, leading to significant space and weight savings. The bearings are not recommended for applications having continuous rotation.



- Accommodate radial, axial and moment loads simultaneously
- Require considerably less axial space than two angular contact ball bearings
- Extremely thin cross section
- Lightweight
- Chemical and corrosion resistance
- Low friction
- High stiffness
- High running accuracy



| Dimensions     |           |                                                             |
|----------------|-----------|-------------------------------------------------------------|
| d              | 90 mm     | Bore diameter                                               |
| D              | 96 mm     | Outside diameter                                            |
| H              | 3 mm      | Radial cross section                                        |
| B              | 2.489 mm  | Width                                                       |
| d <sub>1</sub> | ≈ 92.2 mm | Shoulder diameter inner ring                                |
| D <sub>1</sub> | ≈ 93.8 mm | Shoulder diameter outer ring/ inner diameter housing washer |
|                | 1.588 mm  | Ball diameter                                               |
|                | 0.25 mm   | Maximum radius of shaft or housing fillet                   |

Calculation data

|                                               |                |         |
|-----------------------------------------------|----------------|---------|
| Dynamic load rating, Kaydon, radial direction | C <sub>k</sub> | 1 096 N |
| Basic static load rating, radial direction    |                | 1 805 N |

C<sup>0</sup>

AGA BEARINGS

|                                        |       |          |
|----------------------------------------|-------|----------|
| Maximum loading limit, axial direction | $F_a$ | 801 N    |
| Maximum loading limit, moment          | $F_M$ | 14.9 N·m |

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances, radial clearance and recommended fits: Class 1
- Materials

AGA BEARINGS