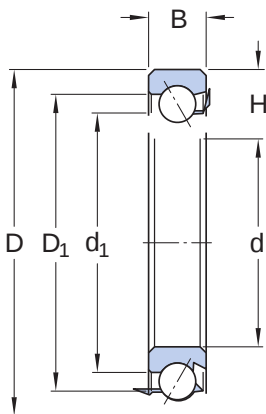


KDN.S10003AS0

These angular contact ball bearings can accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. 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 loads and axial loads in one direction
- Extremely thin cross section
- Lightweight
- Chemical and corrosion resistance
- Low friction
- High stiffness
- High running accuracy



| Dimensions     |            |                                                             |
|----------------|------------|-------------------------------------------------------------|
| d              | 100 mm     | Bore diameter                                               |
| D              | 106 mm     | Outside diameter                                            |
| H              | 3 mm       | Radial cross section                                        |
| B              | 2.5 mm     | Width                                                       |
| d <sub>1</sub> | ≈ 102.2 mm | Shoulder diameter inner ring                                |
| D <sub>1</sub> | ≈ 103.8 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> | 765 N   |
| Basic static load rating, radial direction    | C <sub>0</sub> | 1 077 N |

|                                        |       |       |
|----------------------------------------|-------|-------|
| Maximum loading limit, axial direction | $F_a$ | 890 N |
|----------------------------------------|-------|-------|

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

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

AGA BEARINGS