

KDN.J08008CP0

Radial contact ball bearings with seals or shields are designed to accommodate radial loads and some axial loads in either direction. 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 integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out. The bearings are available with and inch boundary dimensions.



- Accommodate radial and some axial loads in both directions
- Integral sealing prolongs bearing service life
- Thin cross section
- Lightweight
- Low friction
- High stiffness
- High running accuracy



| Dimensions     |            |                                           |
|----------------|------------|-------------------------------------------|
| d              | 80 mm      | Bore diameter                             |
| D              | 96 mm      | Outside diameter                          |
| H              | 8 mm       | Radial cross section                      |
| B              | 8 mm       | Width                                     |
| d <sub>2</sub> | ≈ 86.55 mm | Recess diameter inner ring                |
| D <sub>2</sub> | ≈ 89.42 mm | Recess diameter outer ring                |
|                | 3.969 mm   | Ball diameter                             |
|                | 0.8 mm     | Maximum radius of shaft or housing fillet |

Calculation data

|                                               |                |         |
|-----------------------------------------------|----------------|---------|
| Dynamic load rating, Kaydon, radial direction | C <sub>k</sub> | 4.39 kN |
| Basic static load rating, radial direction    | C <sub>0</sub> | 8.42 kN |

|                              |             |
|------------------------------|-------------|
| Starting torque max. no load | 0.09 N·m    |
| Limiting speed               | 2 090 r/min |

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances, radial clearance and recommended fits:
  - Endurakote bearings: Class 1, Class 1, Class 3, Class 4
  - bearings: Class 1
  - other bearings: Class 1, Class 1, Class 3, Class 4, Class 6
- Materials

AGA BEARINGS