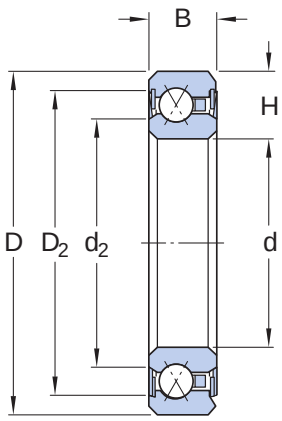
# KDN.JA040XP0

Four-point contact ball bearings with seals or shields 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 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, axial and moment loads simultaneously
- Require considerably less axial space than two angular contact ball bearings
- Integral sealing prolongs bearing service life
- Thin cross section
- Lightweight
- Low friction
- High stiffness
- High running accuracy




## Dimensions

| | | |
|---|---|---|
| d | 101.6 mm | Bore diameter |
| D | 114.3 mm | Outside diameter |
| H | 6.35 mm | Radial cross section |
| B | 6.35 mm | Width |
| $d_1$ | ≈ 106.324 mm | Shoulder diameter inner ring |
| $d_2$ | ≈ 105.359 mm | Recess diameter inner ring |
| $D_1$ | ≈ 109.576 mm | Shoulder diameter outer ring |
| $D_2$ | ≈ 110.642 mm | Recess diameter outer ring |
| | 3.175 mm | Ball diameter |
| | 0.635 mm | Maximum radius of shaft or housing fillet |

## Calculation data

| | | |
|---|---|---|
| Dynamic load rating, Kaydon, radial direction | $C_K$ | 3.36 kN |
| Basic static load rating, radial direction | $C_0$ | 5.74 kN |
| Basic static load rating, axial direction | $C_{0a}$ | 14.3 kN |
| Basic dynamic load rating, moment | $C_M$ | 0.136 kN·m |
| Basic static load rating, moment | $C_{0M}$ | 0.31 kN·m |
| Starting torque max. no load | | 0.141 N·m |
| Limiting speed | | 620 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