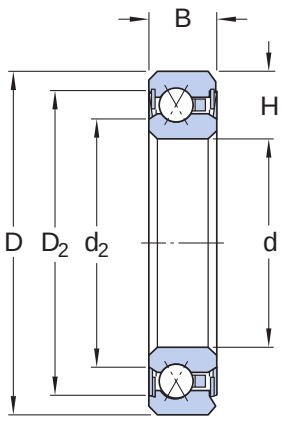
KDN.J10008XP0

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	100 mm	Bore diameter
D	116 mm	Outside diameter
H	8 mm	Radial cross section
B	8 mm	Width
d_2	≈ 106.55 mm	Recess diameter inner ring
D_2	≈ 109.42 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_K	6.57 kN

Basic static load rating, radial direction	C_0	10.4 kN
Basic static load rating, axial direction	C_{0a}	26 kN
Basic dynamic load rating, moment	C_M	0.266 kN·m
Basic static load rating, moment	C_{0M}	0.562 kN·m
Starting torque max. no load		0.15 N·m
Limiting speed		630 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