

KDN.SAA10XL0

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 available with or inch main dimensions. Depending on the design and series the bearings can be provided with chemical and corrosion resistance.



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



Dimensions		
d	25.4 mm	Bore diameter
D	34.925 mm	Outside diameter
H	4.763 mm	Radial cross section
B	4.763 mm	Width
d ₁	≈ 28.956 mm	Shoulder diameter inner ring
D ₁	≈ 31.369 mm	Shoulder diameter outer ring
	2.381 mm	Ball diameter
	0.381 mm	Maximum radius of shaft or housing fillet

Calculation data

Dynamic load rating, Kaydon, radial direction

C_k 1.1 kN

Basic static load rating, radial direction

C₀ 1.29 kN

Basic static load rating, axial direction	C _{0a}	3.25 kN
Basic dynamic load rating, moment	C _M	0.0124 kN·m
Basic static load rating, moment	C _{0M}	0.0192 kN·m

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