

KDN.JG180CP0

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	457.2 mm	Bore diameter
D	508 mm	Outside diameter
H	25.4 mm	Radial cross section
B	25.4 mm	Width
d ₂	≈ 471.272 mm	Recess diameter inner ring
D ₂	≈ 497.891 mm	Recess diameter outer ring
	12.7 mm	Ball diameter
	2.032 mm	Maximum radius of shaft or housing fillet

Calculation data

Dynamic load rating, Kaydon, radial direction	C _k	55 kN
Basic static load rating, radial direction	C ₀	139 kN

Starting torque max. no load	10.734 N·m
Limiting speed	100 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