126 TN9

Self-aligning ball bearing

Self-aligning ball bearings have two rows of balls, a common sphered raceway in the outer ring and two deep uninterrupted raceway grooves in the inner ring. They are insensitive to angular misalignment of the shaft relative to the housing, which can be caused, for example, by shaft deflection.

- Accommodate static and dynamic misalignment
- Excellent high-speed performance
- Excellent light load performance
- Low friction

Overview

Dimensions

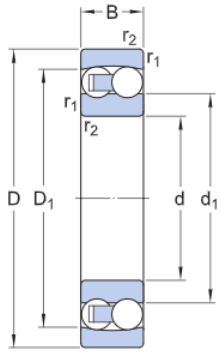
Bore diameter	0.236 in
Outside diameter	0.748 in
Width	0.236 in

Properties

Bore type	Cylindrical
Cage	Non-metallic
Coating	Without
Locating feature, bearing outer ring	None
Lubricant	None
Material, bearing	Bearing steel
Radial internal clearance	CN
Relubrication feature	Without
Retaining feature, inner ring	None
Sealing	Without
Tolerance class	Normal

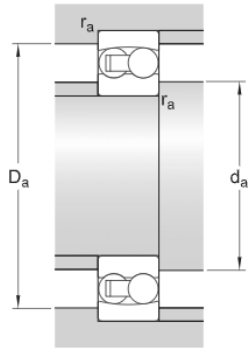
Technical Specification

Bore type	Cylindrical



Dimensions

d	0.236 in	Bore diameter
D	0.748 in	Outside diameter
B	0.236 in	Width
d_1	≈ 0.406 in	Shoulder diameter inner ring
D_1	≈ 0.606 in	Shoulder diameter outer ring
$r_{1,2}$	min. 0.012 in	Chamfer dimension



Abutment dimensions

d_a	min. 0.331 in	Abutment diameter shaft
D_a	max. 0.654 in	Abutment diameter housing
r_a	max. 0.012 in	Fillet radius

Calculation data

Basic dynamic load rating	C	555 lbf
Basic static load rating	C_0	108 lbf
Fatigue load limit	P_u	5.6 lbf
Reference speed		70 000 r/min

Limiting speed		45 000 r/min
Permissible angular misalignment	α	3 °
Calculation factor	k_r	0.04
Limiting value	e	0.33
Calculation factor	Y_0	2
Calculation factor	Y_1	1.9
Calculation factor	Y_2	3

Mass

Mass bearing	0.02 lb

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