

Thomson Customer Support:

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A487296



Precision Bearings

Precision, Steel Ball Bushing Bearing, 3.000, Not Self-Aligning, Closed, Not Corrosion Resistant

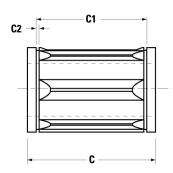
Lead Time: Next Day

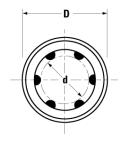
\$828.91 each+

- Precision Steel Ball Bushing bearings offer great improvements in efficiency, productivity, and accuracy over high-friction plain bearings flat-ways.
- The all-steel design makes the bearing product line perfect for replacing plain bearings in high temperature applications.
- The steel sleeve anti-friction recirculating ball bushing provides rigid low drag movement – ~100x lower drag coefficient than a plain contact bearing.
- A coefficient of friction as low as .001. When replacing high friction plain bearings, Precision Steel Ball Bushing Bearings dramatically improve machine productivity and efficiency.

[†]The price shown here is the North American List Price for general reference only. Please Contact Thomson for actual net price and current delivery schedule which will vary with geographic region, quantity ordered and distribution channel. Estimated costs for shipping, packaging and import taxes/duty are not included in this list price. Please contact Thomson Customer Support for more information.

Dimensions





Dimension	Value
С	152.40 mm (6.000 in)
C1	120.09 mm (4.728 in)
C2	3.05 mm (0.120 in)
d	76.20 mm (3.000 in)
D	114.30 mm (4.500 in)

Specifications

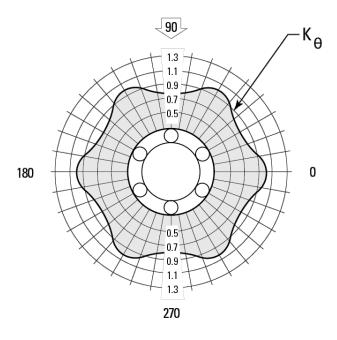
Specifications	Value
Adjustable/Not Adjustable	Not Adjustable
Closed/Open	Closed
Number of Ball Circuits	6

Specifications	Value
Roll Pack	No Roll Pack
Food Grade Rated	Not Food Grade
Self Alignment	Not self-aligning
Single/Twin	Single
Temperature Max	260 °C / 500 °F
Use with shafting class	S
Wipers, Seals	
Weight	4.309 kg / 9.5 lbs
Nominal Diameter	76.200 mm / 3 in
Outer Diameter	114.300 mm / 4.5 in
Length	152.400 mm / 6 in

Performance

Load Correction Factor, K $_{\scriptscriptstyle \theta}$

Performance	Value
Load Capacity, Dynamic	11,565.376 N / 2600 lbf



The actual dynamic load capacity of a Ball Bushing Bearing is determined by the direction of the applied load relative to the bearing circuits. The load correction factor K is found by referring to the polar graph. To determine the actual dynamic load capacity, multiply the proper correction factor (K) by the dynamic load capacity.

Travel Life

The following formula may be used to determine travel life for bearings with imperial units:

$$L_m = (\frac{W}{P} \cdot K_\theta \cdot K_s)^3 \cdot 2 \cdot 10^6$$
 inches

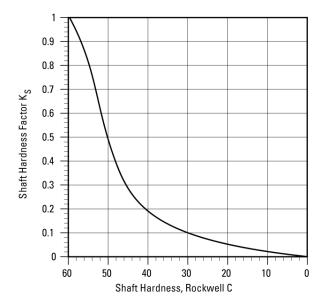
Where:

L_m = travel life (in)
W = dynamic load capacity rating (lbf)
P = resultant from externally applied loads (lbf)

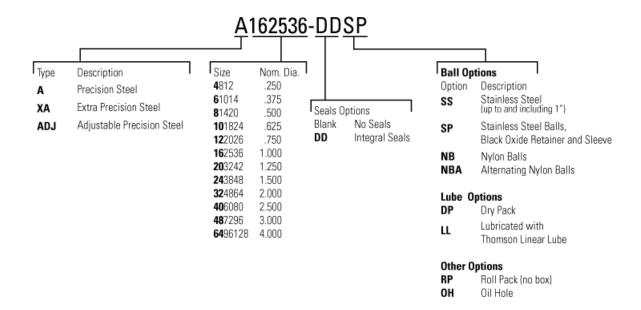
 K_{θ} = load correction factor K_s = shaft hardness factor

Shaft Hardness factor, K_s

For shafts that do not meet hardness 60 HRC, shaft hardness factor K_s must be applied.



Order Code



Related Products



3" Shafting, S Class, Cut to Length

https://www.thomsonlinear.com/en/pr oduct/3 S CTL