The Timken Company
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Part Number S10K, Fafnir® Miniature Ball Bearings (S..K)

Radial ball bearings consist of an inner and outer ring with a cage containing a complement of precision balls. The standard Conrad-type bearing has a deep-groove construction capable of handling radial and axial loads from either direction in versatile designs that permit relatively high-speed operation.

In addition to standard single-row deep groove bearings, Timken offers special designs, including a maximum capacity series and an extra large (XLS) radial series bearing.

Size range: 3 mm

more



Specifications | Dimensions | Basic Load Ratings | Factors | Abutment and Fillet Dimensions

Specifications

Design Units	Imperial
Ball Type	STEEL

Dimensions

d - Bore	1 in
D - Outer Diameter	2 in 50.8 mm
earing Width	0.500 in 12.7 mm

Basic Load Ratings

C0 - Static Radial Rating	1340 lbf 5961 N
Ce - Dynamic Radial Rating	2500 lbf 11121 N

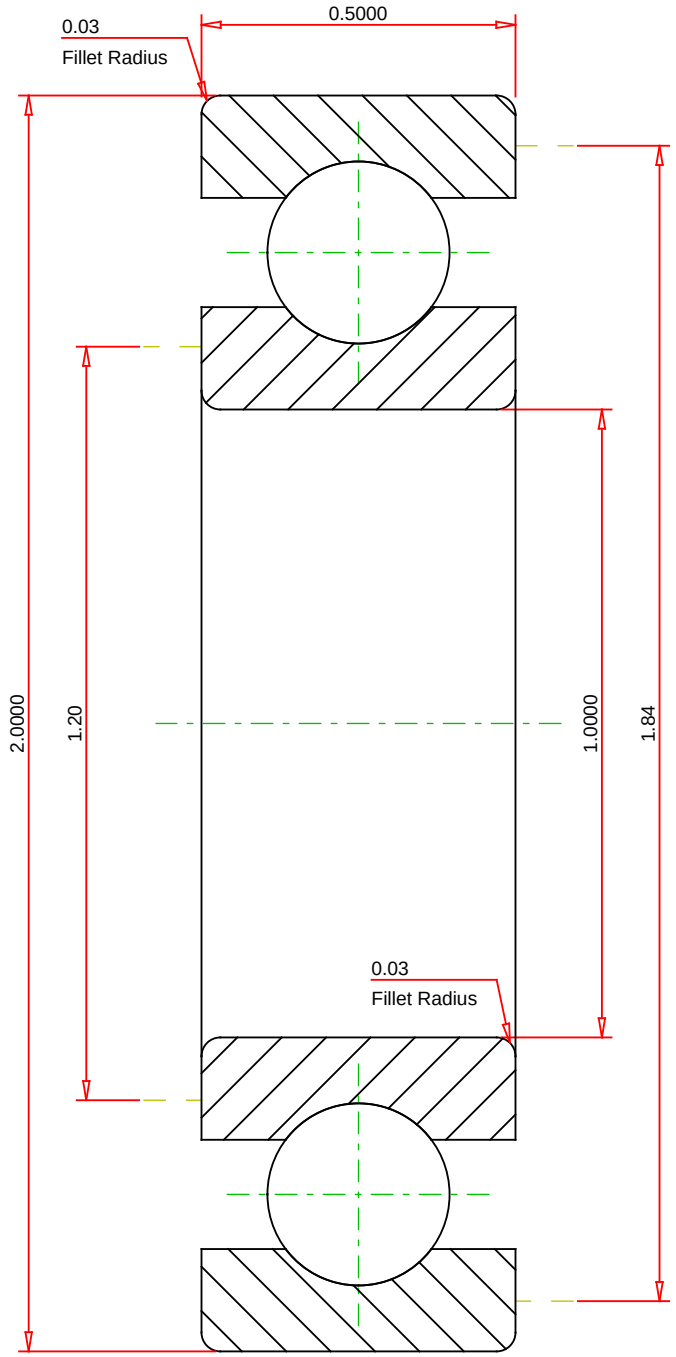
Factors

Limiting Speed (Grease)	7830 rpm
Limiting Speed (Oil)	9140 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius	0.03 in 0.8 mm
r - Outer Ring "To Clear" Radius[1]	0.03 in 0.800 mm
da - Inner Ring Backing Diameter	1.200 in 30.50 mm
Da - Outer Ring Backing Diameter	1.840 in 46.70 mm

[1] These maximum fillet radii will be cleared by the bearing corners.



IMPERIAL UNITS

Number of Balls Per Row	10	
Bearing Weight	0.20	lb

TIMKEN

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NORTH CANTON, OHIO USA

S10K
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Dynamic Radial Rating	2500	lbf
Static Radial Rating	1340	lbf

Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason.

FOR DISCUSSION ONLY