The Timken Company
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Part Number 9110K, Fafnir® Deep Groove Ball Bearings (9100K, 200K, 300K)

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	Metric
d - Bore	50 mm
Ball Type	STEEL
Manufacturing Part Number	9110K Z6 FS50000

Dimensions

D - Outer Diameter	80 mm 3.15 in
Bearing Width	16 mm 0.6299 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	24200 N 5440 lbf
C0 - Static Radial Rating	16600 N 3720 lbf

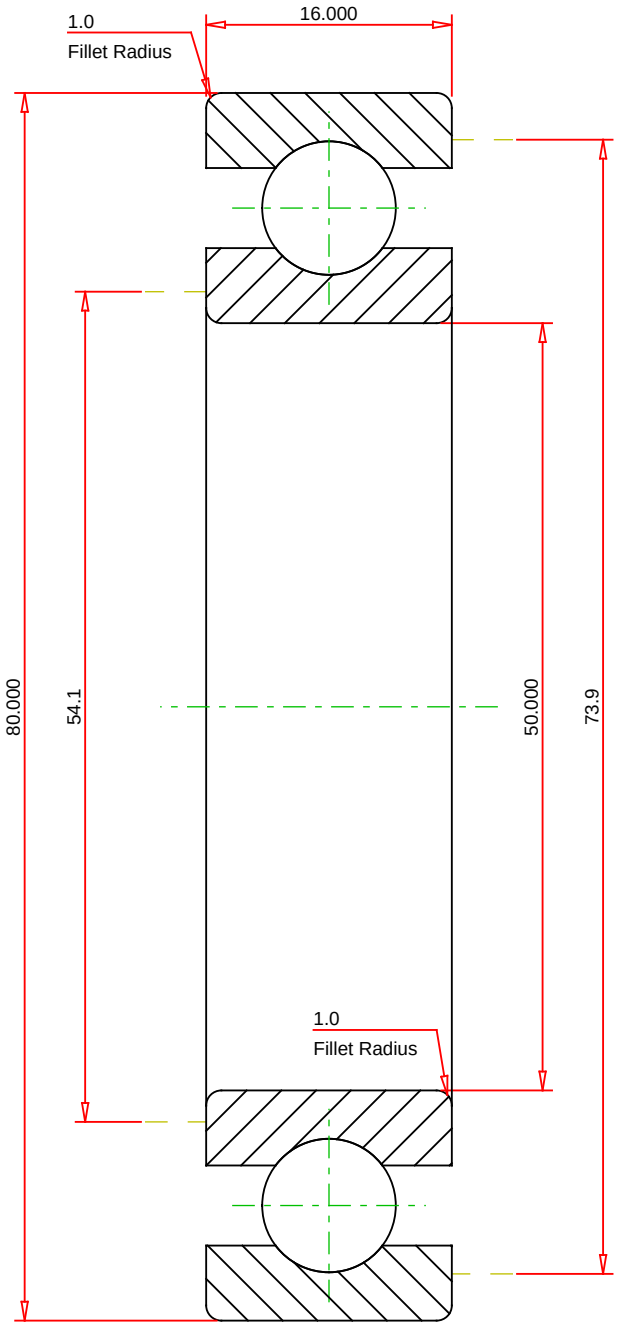
Factors

Limiting Speed (Grease)	4615 rpm
Limiting Speed (Oil)	5385 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	0.99 mm 0.039 in
r - Outer Ring "To Clear" Radius[3]	0.99 mm 0.039 in
da - Inner Ring Backing Diameter	54.10 mm 2.1300 in
Da - Outer Ring Backing Diameter	73.91 mm 2.9100 in

[1] Based on 10^6 revolutions of calculated fatigue life.
[2] Maximum housing fillet radius that bearing corners will clear.
[3] Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

Number of Balls Per Row	14	
Bearing Weight	0.272	kg

TIMKEN®

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NORTH CANTON, OHIO USA

9110K

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Dynamic Radial Rating	24200	N
Static Radial Rating	16600	N

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