



The Timken Company
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Part Number 9110PP, 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



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Specifications	
Design Units	Metric
d - Bore	50 mm
Ball Type	STEEL
Manufacturing Part Number	9110PP Z6 FS50000

Dimensions	



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

Basic Load Ratings

Ce - Dynamic Radial Rating¹	24200 N 5440 lbf
C0 - Static Radial Rating	16600 N 3720 lbf

Factors

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

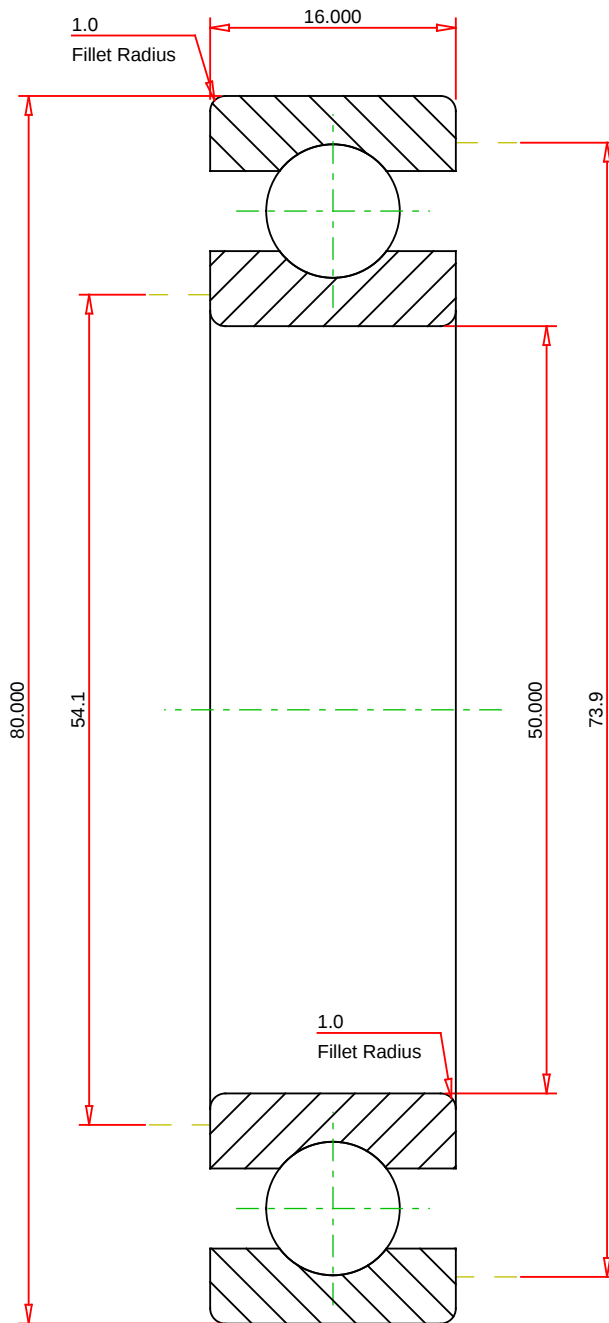
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	0.99 mm 0.039 in
r - Outer Ring "To Clear" Radius³	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
Bearing Weight

14
0.272 kg

TIMKEN®

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NORTH CANTON, OHIO USA

9110PP

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Dynamic Radial Rating
Static Radial Rating

24200 N
16600 N

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