



The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 9103PPG, 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	17 mm
Ball Type	STEEL
Manufacturing Part Number	9103PPG Z5 FS50000

Dimensions	



D - Outer Diameter	35 mm 1.378 in
Bearing Width	10 mm 0.3937 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	6660 N 1500 lbf
C0 - Static Radial Rating	3250 N 730 lbf

Factors

Limiting Speed (Grease)	11561 rpm
Limiting Speed (Oil)	13488 rpm

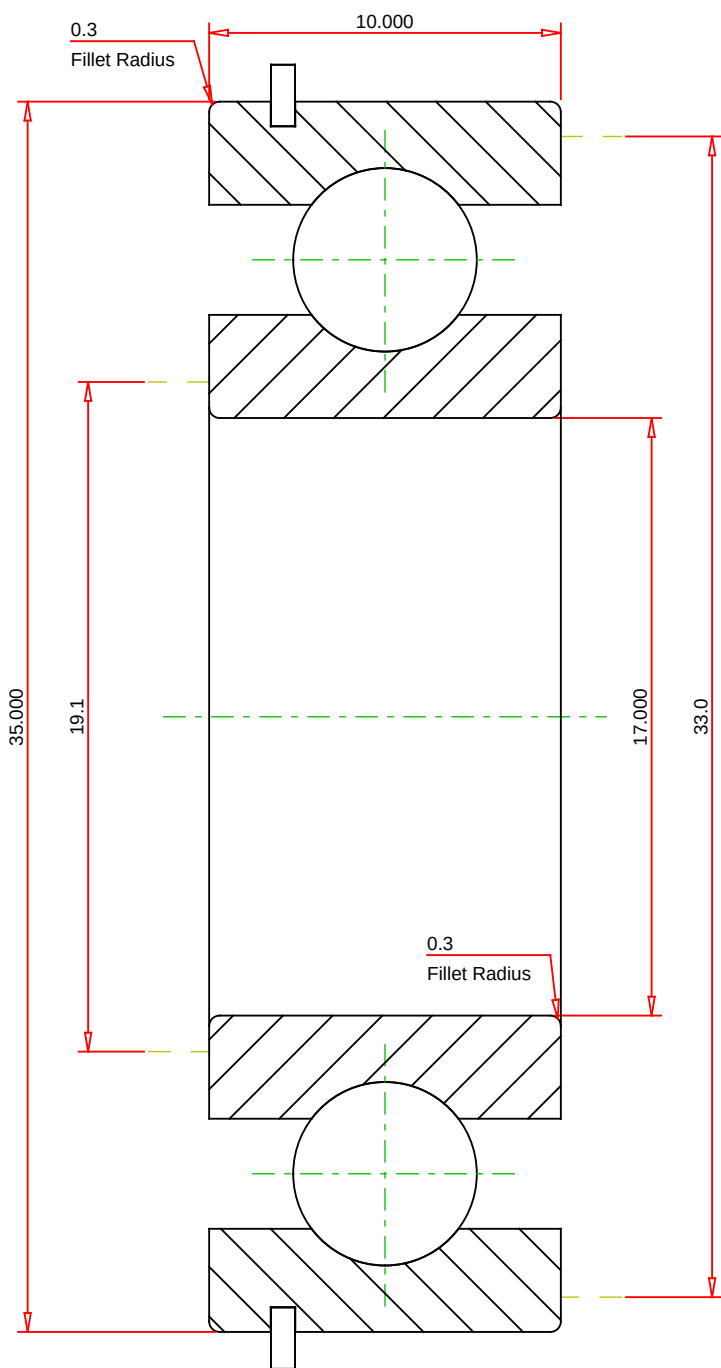
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	0.3 mm 0.012 in
r - Outer Ring "To Clear" Radius³	0.3 mm 0.012 in
da - Inner Ring Backing Diameter	19.05 mm 0.750 in
Da - Outer Ring Backing Diameter	33.02 mm 1.3000 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	10 0.041 kg	TIMKEN®	9103PPG Fafnir® Deep Groove Ball Bearings (9100K, 200K, 300K)	
		THE TIMKEN COMPANY NORTH CANTON, OHIO USA	Dynamic Radial Rating6660 N Static Radial Rating3250 N	