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 W214PP, 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	70 mm
Ball Type	STEEL

Dimensions

D - Outer Diameter	125 mm 4.921 in
earing Width	39.67 mm 1.5618 in

Basic Load Ratings

Ce - Dynamic Radial Rating[1]	69000 N 15500 lbf
C0 - Static Radial Rating	44000 N 9890 lbf

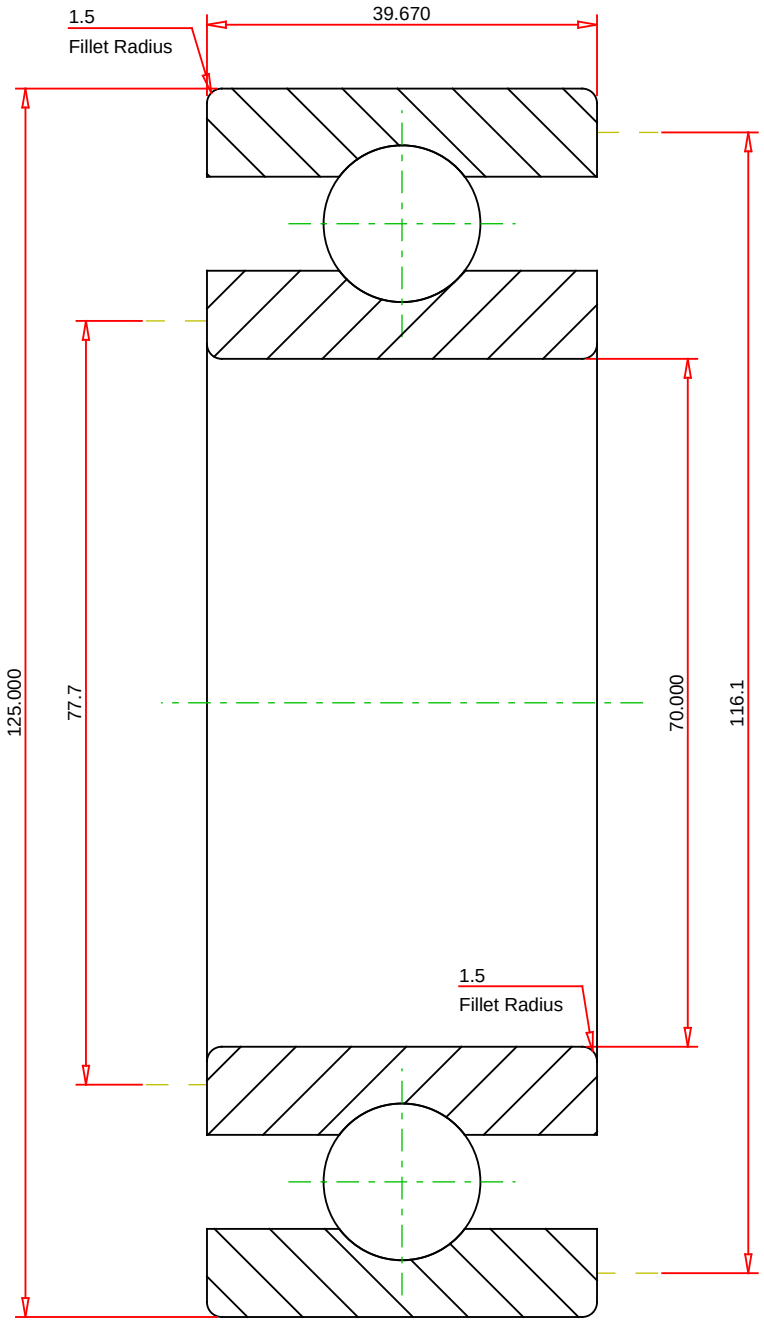
Factors

Limiting Speed (Grease)	3077 rpm
Limiting Speed (Oil)	3590 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	1.5 mm 0.059 in
r - Outer Ring "To Clear" Radius[3]	1.5 mm 0.059 in
da - Inner Ring Backing Diameter	77.72 mm 3.060 in
Da - Outer Ring Backing Diameter	116.08 mm 4.5700 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	10	
Bearing Weight	1.810	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

W214PP

Fafnir® Deep Groove Ball Bearings (9100K, 200K, 300K)

Dynamic Radial Rating	69000	N
Static Radial Rating	44000	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