


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 308WD, Fafnir® Maximum Capacity Ball Bearings (200W, 300W)

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	40 mm
Ball Type	STEEL
Manufacturing Part Number	308WDN

Dimensions



D - Outer Diameter 90 mm
3.5433 in

Bearing Width 23 mm
0.9055 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹ 64400 N
14500 lbf

C0 - Static Radial Rating 39100 N
8780 lbf

Factors

Limiting Speed (Grease) 3846 rpm

Limiting Speed (Oil) 4615 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius² 1.5 mm
0.059 in

r - Outer Ring "To Clear" Radius³ 1.5 mm
0.059 in

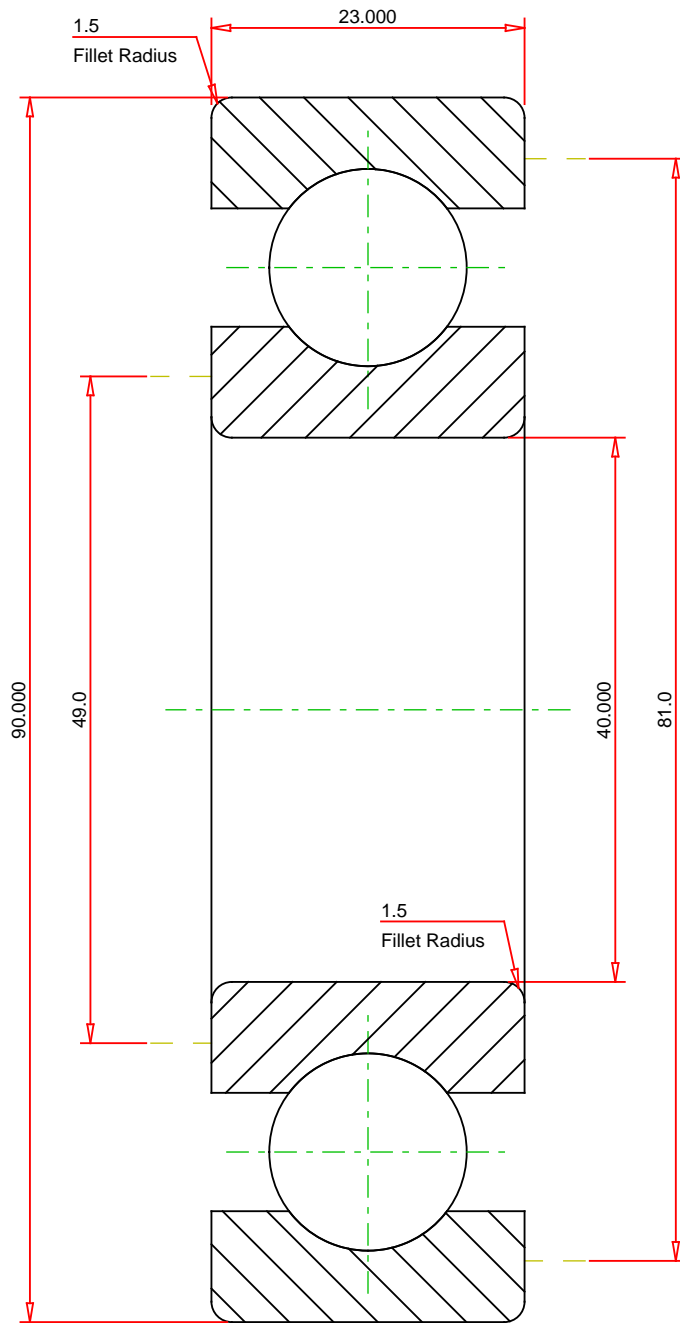
da - Inner Ring Backing Diameter 49.00 mm
1.9291 in

Da - Outer Ring Backing Diameter 81.00 mm
3.1890 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 12
 Bearing Weight 0.844 kg

TIMKEN®

THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

308WD
 Fafnir® Maximum Capacity Ball Bearings (200W, 300W)

Dynamic Radial Rating 64400 N
 Static Radial Rating 39100 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