


**The Timken Company**

4500 Mt Pleasant St. NW

N. Canton, OH 44720

**Phone:** (234) 262-3000

**E-Mail:** [CustomerCAD@timken.com](mailto:CustomerCAD@timken.com) • **Web site:** [www.timken.com](http://www.timken.com)
**Part Number 2MM9316WISULFS737, Fafnir® Spindle Angular Contact Ball Bearings**
**(9300WI, 9100WI, 200WI, 300WI)**

Timken® angular contact ball bearings are designed for combination radial and axial loading. Single-row bearings have high thrust capacity in one direction. Some single-row bearings are specifically designed for duplex mounting in sets for maximum performance.



[Specifications](#) | [Dimensions](#) | [Basic Load Ratings](#) | [Factors](#) | [Abutment and Fillet Dimensions](#)

**Specifications**

<b>Rows per Set</b>	Single
<b>Design Units</b>	Metric
<b>d - Bore</b>	80 mm
<b>Ball Type</b>	STEEL
<b>Cage Type</b>	CR - Phenolic Outer Land Riding Cage
<b>Precision Rating</b>	ISO P4S (ABEC 7/9)
<b>Manufacturing Part Number</b>	2MM9316WI SUL
<b>World Part Number</b>	71916C-T-P4S-SUL



## Dimensions

<b>D - Outer Diameter</b>	110 mm 4.3307 in
<b>Bearing Width</b>	16 mm 0.6299 in
<b>Total Width</b>	16 mm 0.6299 in
<b>Contact Angle</b>	15 °

## Basic Load Ratings

<b>C0 - Static Radial Rating (per row)</b>	32700 N 7350 lbf
<b>Ce - Dynamic Radial Rating (per row)<sup>1</sup></b>	33800 N 7600 lbf
<b>C1 ISO - Dynamic Radial Rating (per row)</b>	30700 N 6910 lbf

## Factors

<b>Limiting Speed (Grease) (per row)</b>	11600 rpm
<b>Limiting Speed (Oil)</b>	23200 rpm

## Abutment and Fillet Dimensions

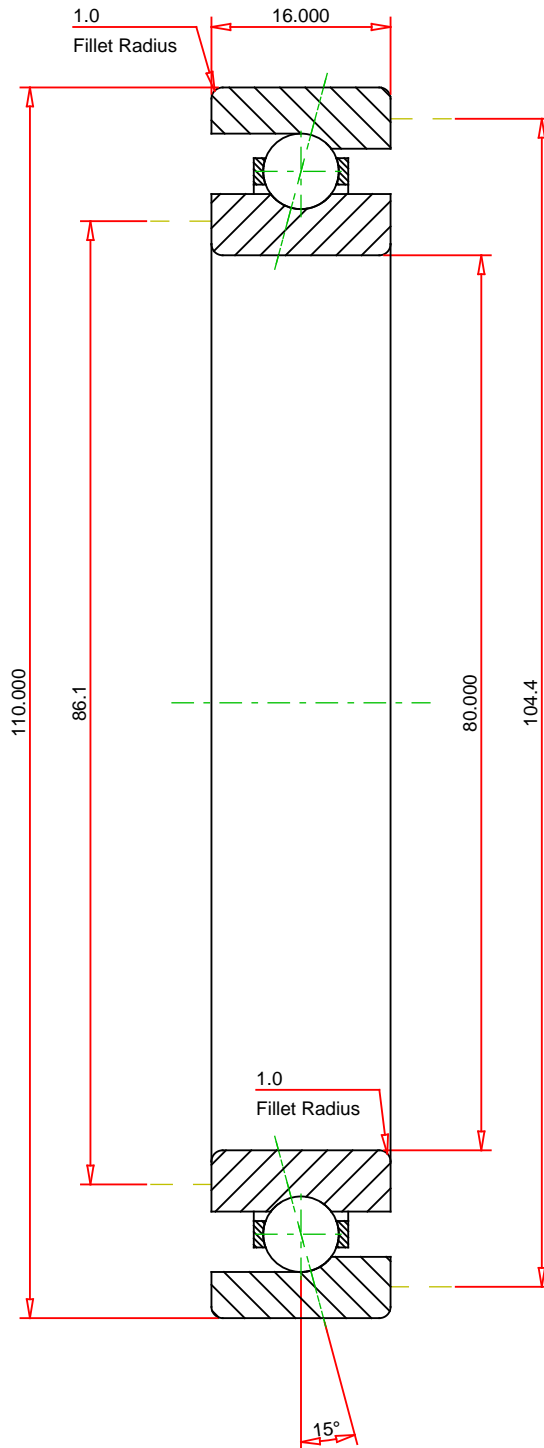
<b>R - Inner Ring "To Clear" Radius<sup>2</sup></b>	1 mm 0.039 in
<b>r - Outer Ring "To Clear" Radius<sup>3</sup></b>	1 mm 0.039 in

<b>da - Inner Ring Backing Diameter</b>	86.1 mm 3.390 in
<b>Da - Outer Ring Backing Diameter</b>	104.4 mm 4.110 in

<sup>1</sup> Based on  $10^6$  revolutions of calculated fatigue life.

<sup>2</sup> Maximum housing fillet radius that bearing corners will clear.

<sup>3</sup> Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

Number of Balls Per Row 27  
 Bearing Weight 0.390 kg

**TIMKEN**®

**THE TIMKEN COMPANY**  
 NORTH CANTON, OHIO USA

**2MM9316WISULFS737**  
 Fafnir® Spindle Angular Contact Ball Bearings  
 (9300WI, 9100WI, 200WI, 300WI)

Dynamic Radial Rating 33800 N  
 Static Radial Rating 32700 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**