


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 2MMVC9100HXVVDUMFS934, Fafnir® High Speed Spindle Angular Contact Ball Bearings (9300HX, 9100HX)

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

Rows per Set	Duplex
Seal Type	High Speed
Design Units	Metric
d - Bore	10 mm
Ball Type	Ceramic
Cage Type	CR - Phenolic Outer Land Riding Cage

Dimensions



D - Outer Diameter	26 mm 1.0236 in
Bearing Width	8 mm 0.315 in
Total Width	16 mm 0.630 in
Contact Angle	15 °

Basic Load Ratings

C0 - Static Radial Rating (per row)	1050 N 240 lbf
Ce - Dynamic Radial Rating (per row)¹	3310 N 740 lbf
C1 ISO - Dynamic Radial Rating (per row)	3010 N 673 lbf

Factors

Limiting Speed (Grease) (per row)	102960 rpm
Limiting Speed (Oil)	205920 rpm

Abutment and Fillet Dimensions

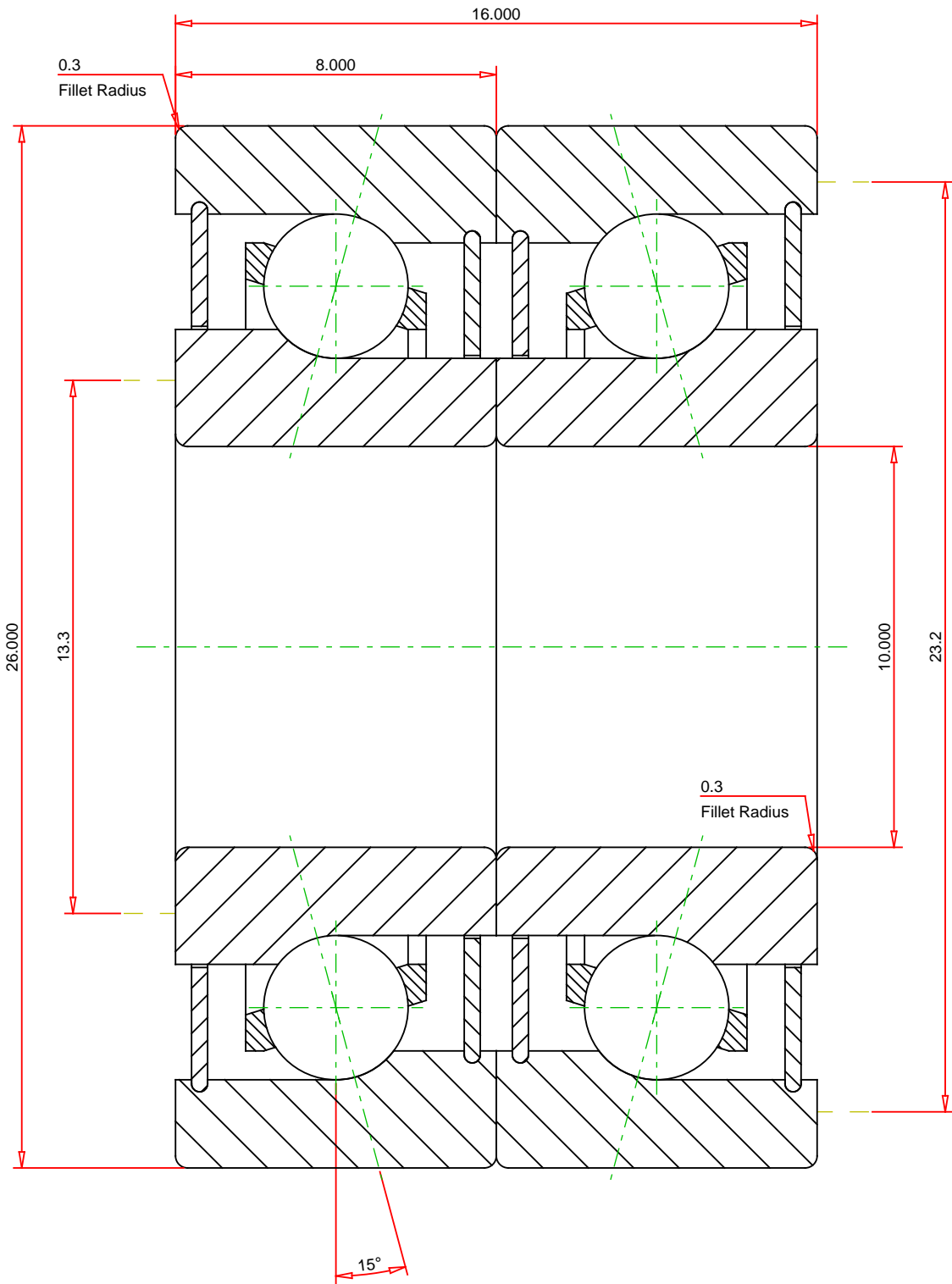
R - Inner Ring "To Clear" Radius²	0.3 mm 0.012 in
r - Outer Ring "To Clear" Radius³	0.3 mm 0.012 in

da - Inner Ring Backing Diameter	13.3 mm 0.530 in
Da - Outer Ring Backing Diameter	23.2 mm 0.920 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	0.036 kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

2MMVC9100HXVVDUMFS934	
Fafnir® High Speed Spindle Angular Contact Ball Bearings (9300HX, 9100HX)	
Dynamic Radial Rating	3310 N
Static Radial Rating	1050 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