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Timken Part Number 7316WN, Fafnir® Single Row Angular Contact Ball Bearings (7200, 7300, 7400)

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.



Dimensions | Basic Load Ratings | Factors | Specifications | Abutment and Fillet Dimensions

Dimensions

d - Bore	80.000 mm 3.1496 in
D - Outer Diameter	170.000 mm 6.6929 in
Bearing Width	39.000 mm 1.5354 in
Contact Angle	40 º
do - Ball Diameter	28.57500 mm 1.12500 in

Basic Load Ratings

C0 - Static Radial Rating	108000 N 24500 lbf
Ce - Dynamic Radial Rating[1]	153000 N 34500 lbf

Factors

Limiting Speed (Grease)	2800 rpm
Limiting Speed (Oil)	3200 rpm

Specifications

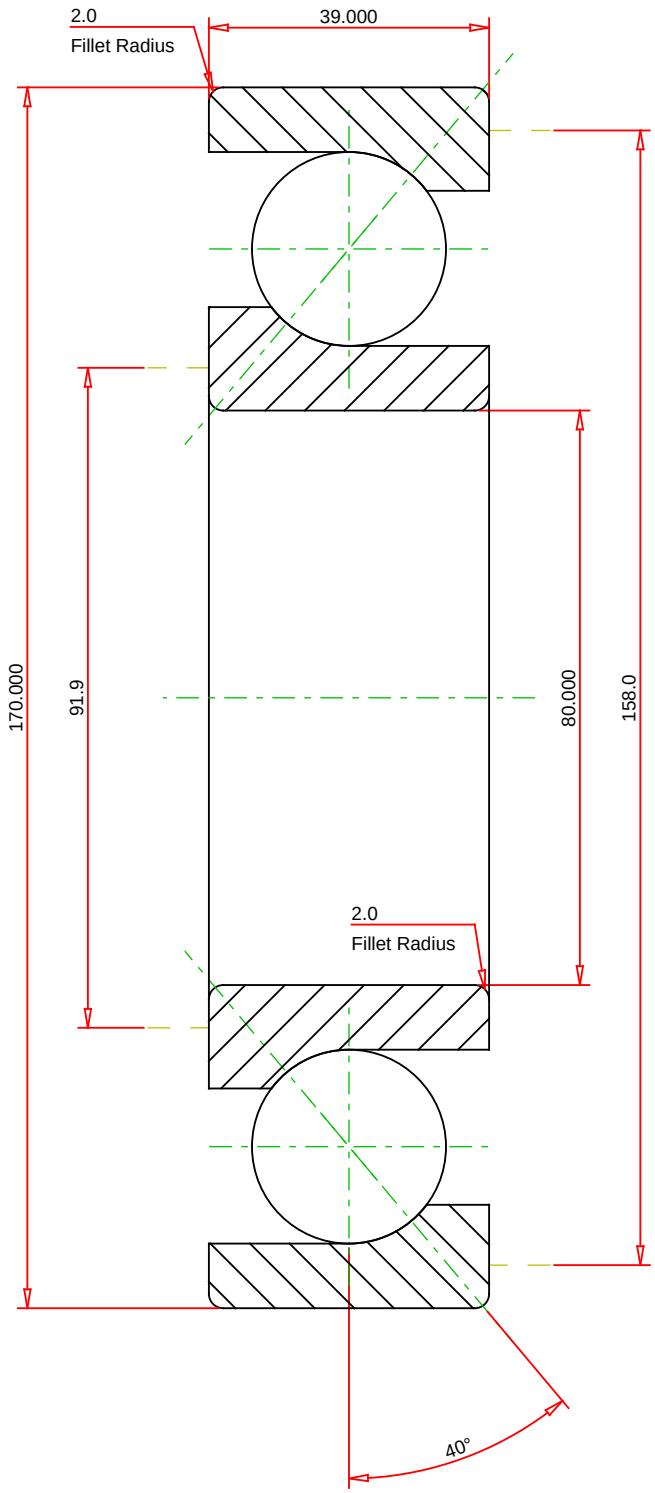
Ball Type	Steel
Cage Type	Ball Piloted, Pressed Brass Cage
Bearing Weight	4.504 Kg 9.92 lb
Design Units	METRIC

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	2.000 mm 0.083 in
r - Outer Ring "To Clear" Radius[3]	2.000 mm 0.083 in
da - Inner Ring Backing Diameter	91.900 mm 3.620 in
Da - Outer Ring Backing Diameter	158.000 mm 6.220 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	4.504	kg

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

7316WN

Fafnir® Single Row Angular Contact Ball Bearings
(7200, 7300, 7400)

Dynamic Radial Rating	153000	N
Static Radial Rating	108000	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