


The Timken Company

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Part Number 38PP, 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


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Specifications

Design Units	Metric
d - Bore	8 mm
Ball Type	STEEL
Manufacturing Part Number	P38PP Z1 FS50000

Dimensions



D - Outer Diameter	22 mm 0.866 in
Bearing Width	7 mm 0.276 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	3660 N 820 lbf
C0 - Static Radial Rating	1370 N 310 lbf

Factors

Limiting Speed (Grease)	20000 rpm
Limiting Speed (Oil)	23333 rpm

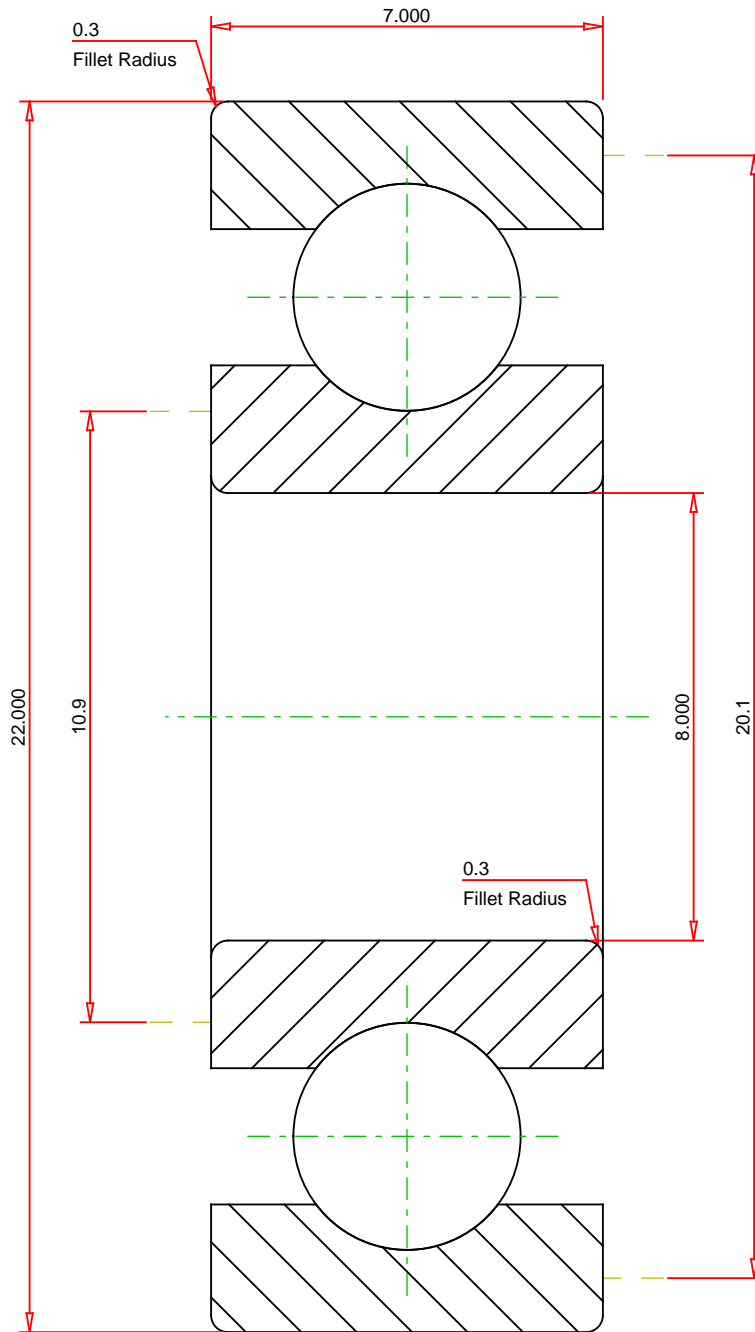
Abutment and Fillet Dimensions

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	10.92 mm 0.4300 in
Da - Outer Ring Backing Diameter	20.07 mm 0.7900 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 7
 Bearing Weight 0.018 kg

TIMKEN®

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 NORTH CANTON, OHIO USA

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Dynamic Radial Rating 3660 N
 Static Radial Rating 1370 N

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