


The Timken Company

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Part Number 318K, 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	90 mm
Ball Type	STEEL
Manufacturing Part Number	318KC1FS50000

Dimensions



D - Outer Diameter	190 mm 7.480 in
Bearing Width	43 mm 1.6929 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	158357 N 35600 lbf
C0 - Static Radial Rating	107202 N 24100 lbf

Factors

Limiting Speed (Grease)	2140 rpm
Limiting Speed (Oil)	2500 rpm

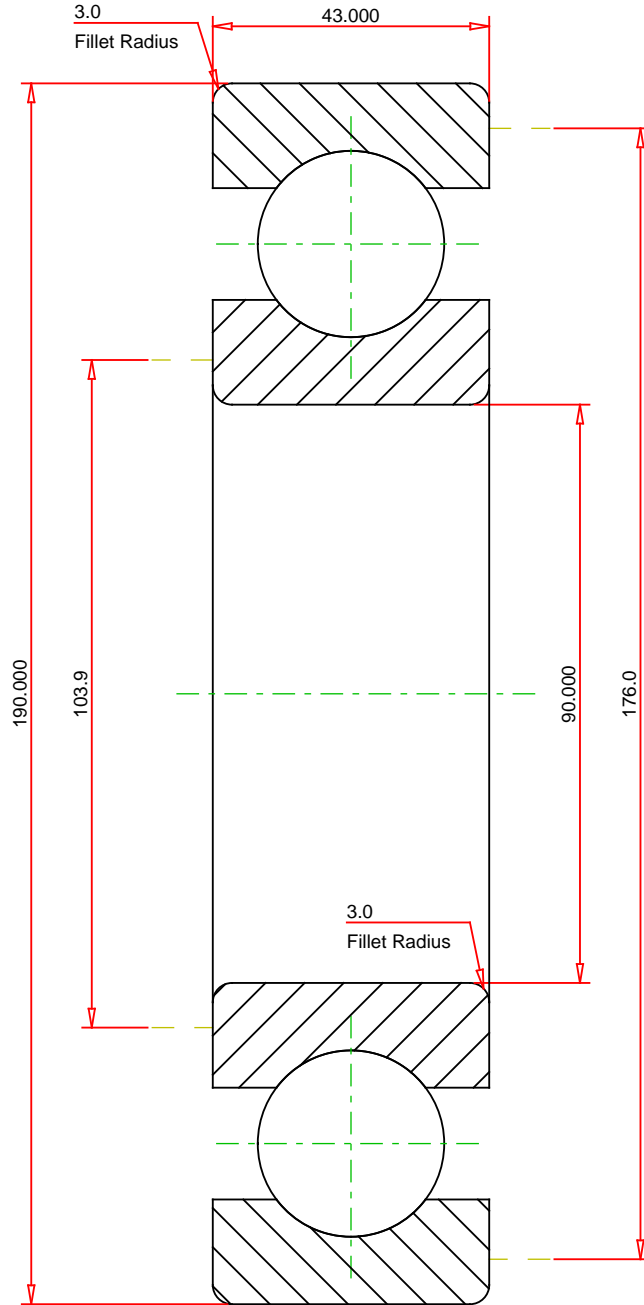
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	3 mm 0.118 in
r - Outer Ring "To Clear" Radius³	3 mm 0.118 in
da - Inner Ring Backing Diameter	103.90 mm 4.090 in
Da - Outer Ring Backing Diameter	176.0 mm 6.930 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 8
 Bearing Weight 5.121 kg

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 NORTH CANTON, OHIO USA

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Dynamic Radial Rating 158357 N
 Static Radial Rating 107202 N

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