


**The Timken Company**

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## Part Number 9108KDD, 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


[more](#)

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

### Specifications

<b>Design Units</b>	Metric
<b>d - Bore</b>	40 mm
<b>Ball Type</b>	STEEL
<b>Manufacturing Part Number</b>	9108KDD Z6 FS50000

### Dimensions



<b>D - Outer Diameter</b>	68 mm 2.677 in
<b>Bearing Width</b>	15 mm 0.5906 in

## Basic Load Ratings

<b>Ce - Dynamic Radial Rating<sup>1</sup></b>	19600 N 4410 lbf
<b>C0 - Static Radial Rating</b>	12500 N 2810 lbf

## Factors

<b>Limiting Speed (Grease)</b>	5556 rpm
<b>Limiting Speed (Oil)</b>	6481 rpm

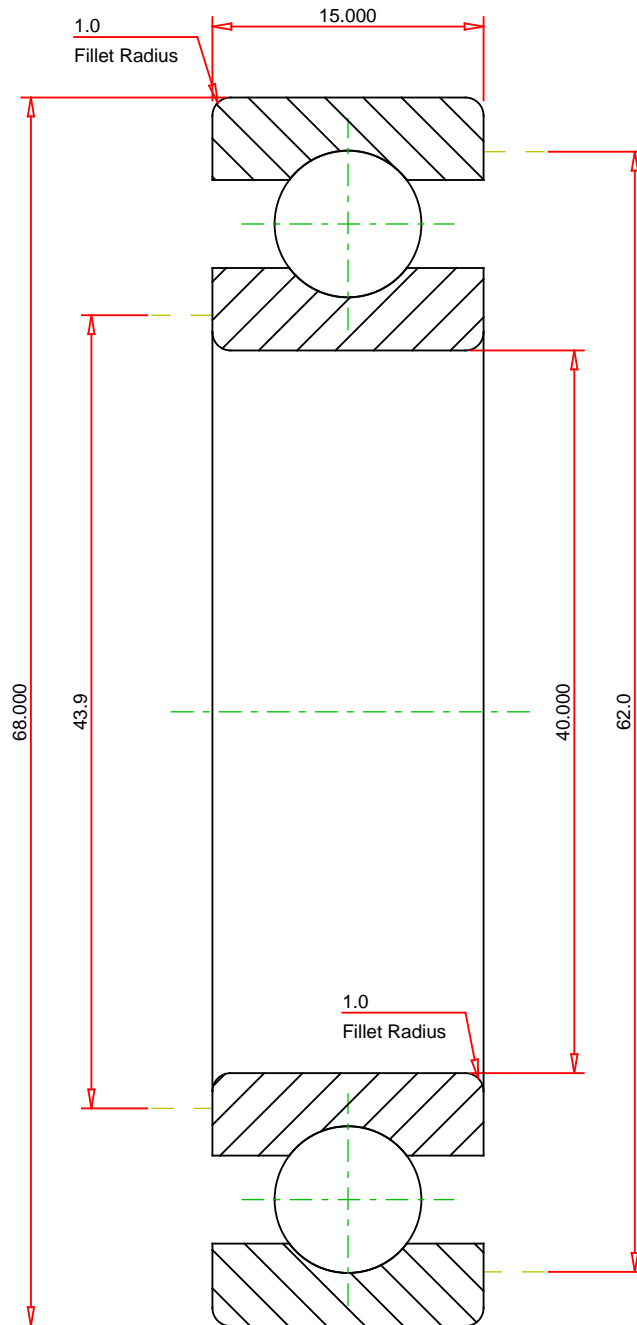
## Abutment and Fillet Dimensions

<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>	43.90 mm 1.7283 in
<b>Da - Outer Ring Backing Diameter</b>	62.00 mm 2.4409 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	13
Bearing Weight	0.195 kg

**TIMKEN**®

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NORTH CANTON, OHIO USA

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Fafnir® Deep Groove Ball Bearings (9100K, 200K, 300K)	
Dynamic Radial Rating	19600 N
Static Radial Rating	12500 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**