



The Timken Company
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Part Number 208KDG, 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	40 mm
Ball Type	STEEL
Manufacturing Part Number	208KDG Z6 FS50000

Dimensions	



D - Outer Diameter	80 mm 3.15 in
Bearing Width	18 mm 0.7087 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	36200 N 8130 lbf
C0 - Static Radial Rating	19800 N 4460 lbf

Factors

Limiting Speed (Grease)	5000 rpm
Limiting Speed (Oil)	5834 rpm

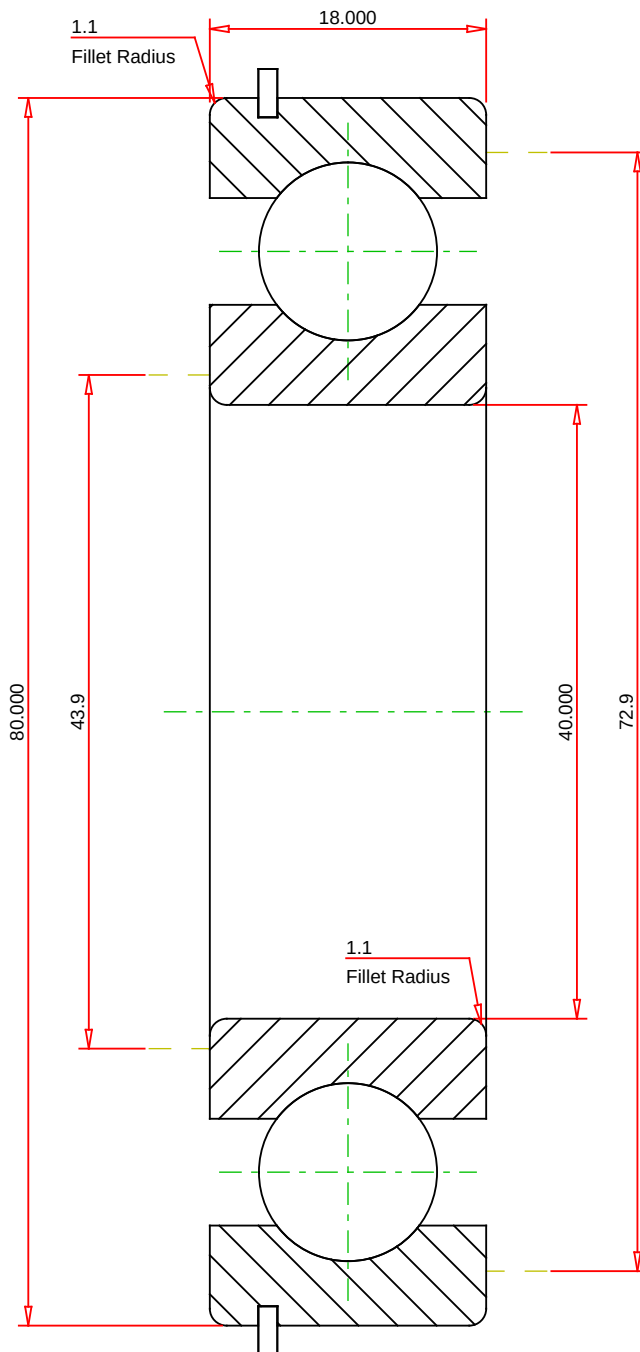
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	1.1 mm 0.043 in
r - Outer Ring "To Clear" Radius³	1.1 mm 0.043 in
da - Inner Ring Backing Diameter	43.90 mm 1.7283 in
Da - Outer Ring Backing Diameter	72.90 mm 2.8701 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
Bearing Weight

9
0.376 kg

TIMKEN®

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NORTH CANTON, OHIO USA

208KDG

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Dynamic Radial Rating
Static Radial Rating

36200 N
19800 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.

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