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Part Number 305KDDG, 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	25 mm
Ball Type	STEEL
Manufacturing Part Number	305KDDG Z6 FS50000

Dimensions	



D - Outer Diameter	62 mm 2.441 in
Bearing Width	17 mm 0.6693 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	26200 N 5890 lbf
C0 - Static Radial Rating	12100 N 2730 lbf

Factors

Limiting Speed (Grease)	6896 rpm
Limiting Speed (Oil)	8046 rpm

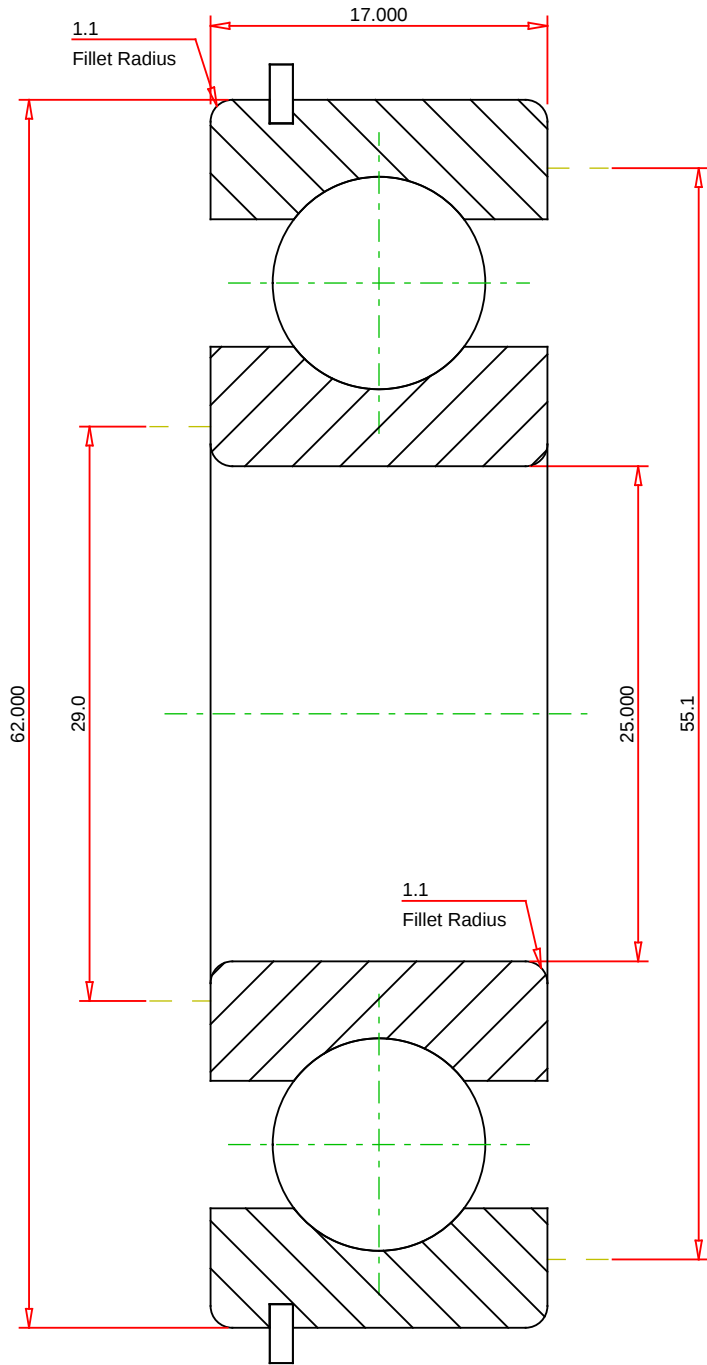
Abutment and Fillet Dimensions

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	29.00 mm 1.1417 in
Da - Outer Ring Backing Diameter	55.10 mm 2.1693 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	7 0.236 kg	TIMKEN®	305KDDG Fafnir® Deep Groove Ball Bearings (9100K, 200K, 300K)
		THE TIMKEN COMPANY NORTH CANTON, OHIO USA	
			Dynamic Radial Rating Static Radial Rating 26200 N 12100 N
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