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Part Number 303PP, 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	17 mm
Ball Type	STEEL
Manufacturing Part Number	P303PP Z6 FS50000

Dimensions	



D - Outer Diameter	47 mm 1.85 in
Bearing Width	14 mm 0.5512 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	15000 N 3370 lbf
C0 - Static Radial Rating	6530 N 1470 lbf

Factors

Limiting Speed (Grease)	9375 rpm
Limiting Speed (Oil)	10937 rpm

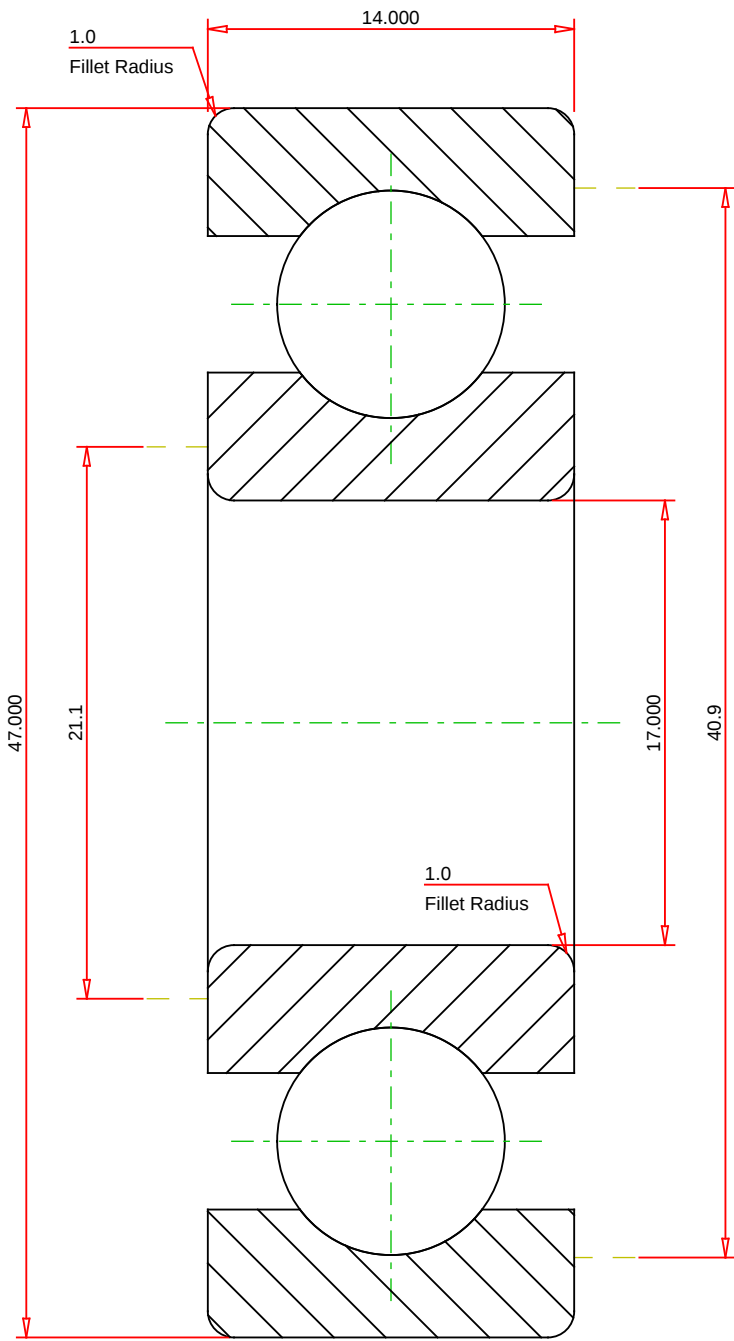
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	1 mm 0.039 in
r - Outer Ring "To Clear" Radius³	1 mm 0.039 in
da - Inner Ring Backing Diameter	21.10 mm 0.8307 in
Da - Outer Ring Backing Diameter	40.89 mm 1.6100 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 0.109 kg	TIMKEN® THE TIMKEN COMPANY NORTH CANTON, OHIO USA	303PP Fafnir® Deep Groove Ball Bearings (9100K, 200K, 300K)	
			Dynamic Radial Rating	15000 N
			Static Radial Rating	6530 N
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