



The Timken Company

4500 Mt Pleasant St. NW

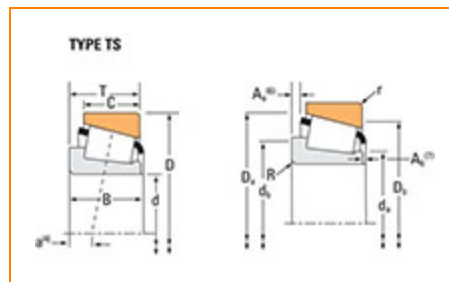
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Part Number 3820, Tapered Roller Bearings - Single Cups - Imperial

This is the most basic and most widely used type of tapered roller bearing. It consists of two main separable parts: the cone (inner ring) assembly and the cup (outer ring). It is typically mounted in opposing pairs on a shaft.



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Specifications

Series	3800
Cup Part Number	3820
Design Units	Imperial

Dimensions

D - Cup Outer Diameter	3.3750 in 85.725 mm
C - Cup Width	0.9375 in 23.813 mm



Abutment and Fillet Dimensions

r - Cup Backface "To Clear" Radius¹	0.130 in 3.3 mm
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Da - Cup Frontface Backing Diameter	3.23 in 82.00 mm
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Db - Cup Backface Backing Diameter	2.87 in 72.90 mm
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Factors

e - ISO Factor²	0.4
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Y - ISO Factor³	1.49
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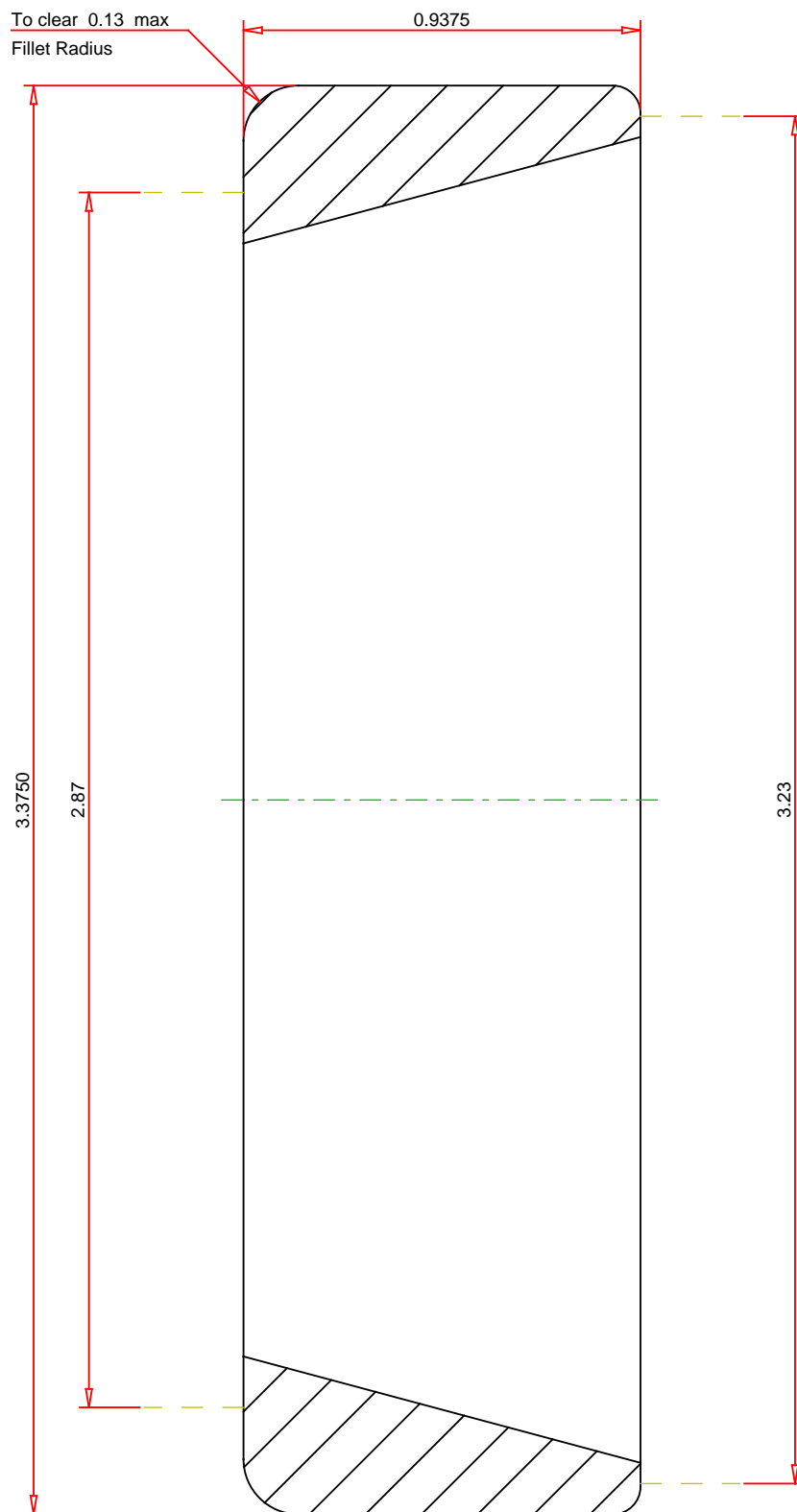
Cg - Geometry Factor⁴	0.0873
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¹ These maximum fillet radii will be cleared by the bearing corners.

² These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

³ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁴ Geometry constant for Lubrication Life Adjustment Factor a3l.



IMPERIAL UNITS

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

3820
Tapered Roller Bearings - Single Cups - Imperial

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FOR DISCUSSION ONLY