



**The Timken Company**

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## Part Number 552D, Tapered Roller Bearings - Double Tapered Cup - Imperial

The configuration of the TDO provides a wide effective bearing spread, making it ideal for applications in which overturning moments are a significant load component. TDO bearings can be used in fixed positions or allowed to float in the housing bore.



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### Specifications

<b>Series</b>	555
<b>Design Units</b>	Imperial
<b>Y - ISO Factor<sup>1</sup></b>	1.73

### Dimensions

<b>D - Cup Outer Diameter</b>	4.8750 in 123.825 mm
<b>C - Double Cup Width</b>	2.5 in 63.5 mm

### Abutment and Fillet Dimensions

<b>r - Cup Frontface "To Clear" Radius<sup>2</sup></b>	0.06 in 1.5 mm
<b>Da - Cup Frontface Backing Diameter</b>	4.56 in 115.82 mm

## Factors

<b>K - Factor<sup>3</sup></b>	1.69
<b>e - ISO Factor<sup>4</sup></b>	0.35
<b>Y1 - ISO Factor<sup>5</sup></b>	1.95
<b>Y2 - ISO Factor<sup>6</sup></b>	2.9
<b>G1 - Heat Generation Factor (Roller-Raceway)<sup>7</sup></b>	91
<b>G2 - Heat Generation Factor (Rib-Roller End)</b>	21.1
<b>Cg - Geometry Factor<sup>8</sup></b>	0.111

<sup>1</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>2</sup> These maximum fillet radii will be cleared by the bearing corners.

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

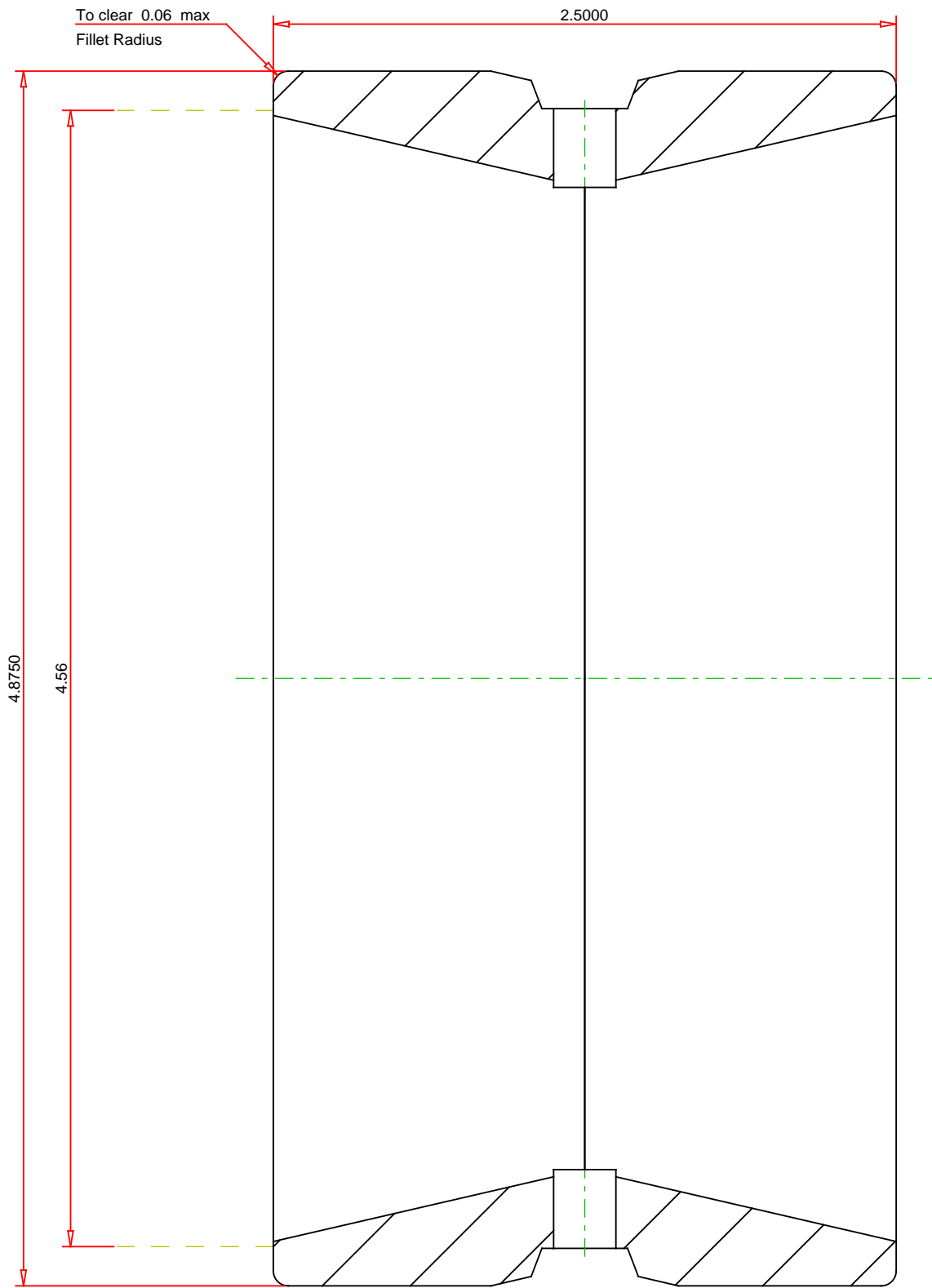
<sup>4</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>5</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>6</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>7</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>8</sup> Geometry constant for Lubrication Life Adjustment Factor a3l.



IMPERIAL UNITS

TIMKEN®

THE TIMKEN COMPANY  
NORTH CANTON, OHIO USA

552D  
DOUBLE TAPERED CUP

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