



The Timken Company

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Part Number 493D, 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.



[Specifications](#) | [Dimensions](#) | [Abutment and Fillet Dimensions](#) | [Factors](#)

Specifications

Series	495
Design Units	Imperial
Y - ISO Factor¹	1.35

Dimensions

D - Cup Outer Diameter	5.3750 in 136.525 mm
C - Double Cup Width	2.125 in 53.975 mm

Abutment and Fillet Dimensions

r - Cup Frontface "To Clear" Radius²	0.03 in 0.8 mm
Da - Cup Frontface Backing Diameter	5.16 in 130.05 mm

Factors

K - Factor³	1.31
e - ISO Factor⁴	0.44
Y1 - ISO Factor⁵	1.52
Y2 - ISO Factor⁶	2.26
G1 - Heat Generation Factor (Roller-Raceway)⁷	105
G2 - Heat Generation Factor (Rib-Roller End)	29.3
Cg - Geometry Factor⁸	0.125

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

² These maximum fillet radii will be cleared by the bearing corners.

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

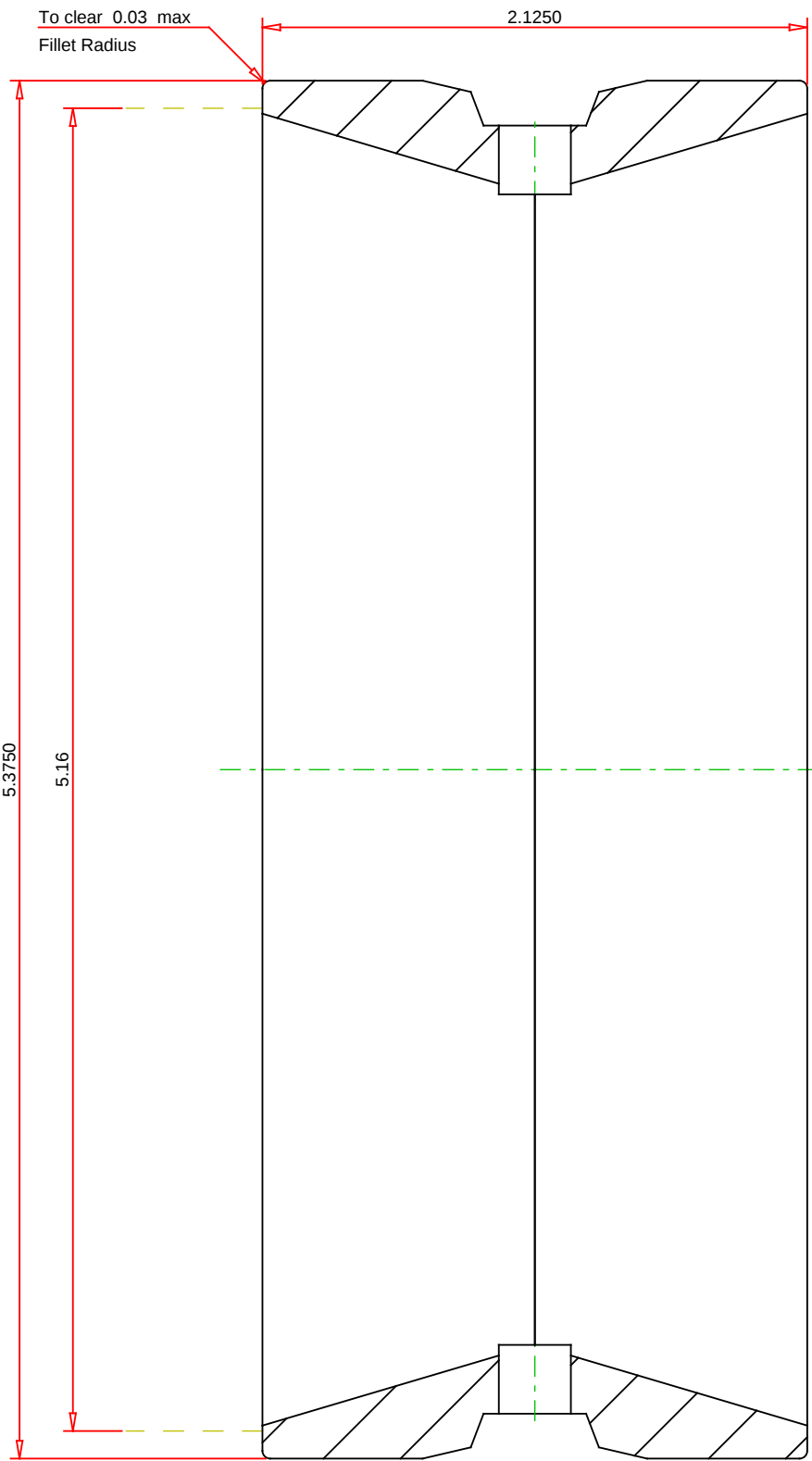
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⁵ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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⁸ Geometry constant for Lubrication Life Adjustment Factor a3l.



IMPERIAL UNITS

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

493D
DOUBLE TAPERED CUP

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