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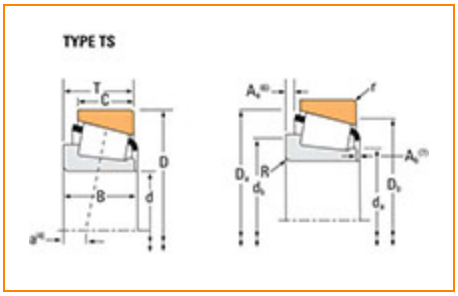
Part Number K149561, Tapered Roller Bearings - Single Cups - Imperial

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.





Specifications | Dimensions | Abutment and Fillet Dimensions | Factors

Specifications

Series	2700
Cup Part Number	K149561
Design Units	Imperial

Dimensions

D - Cup Outer Diameter	3 in 76.2 mm
C - Cup Width	0.7500 in 19.050 mm

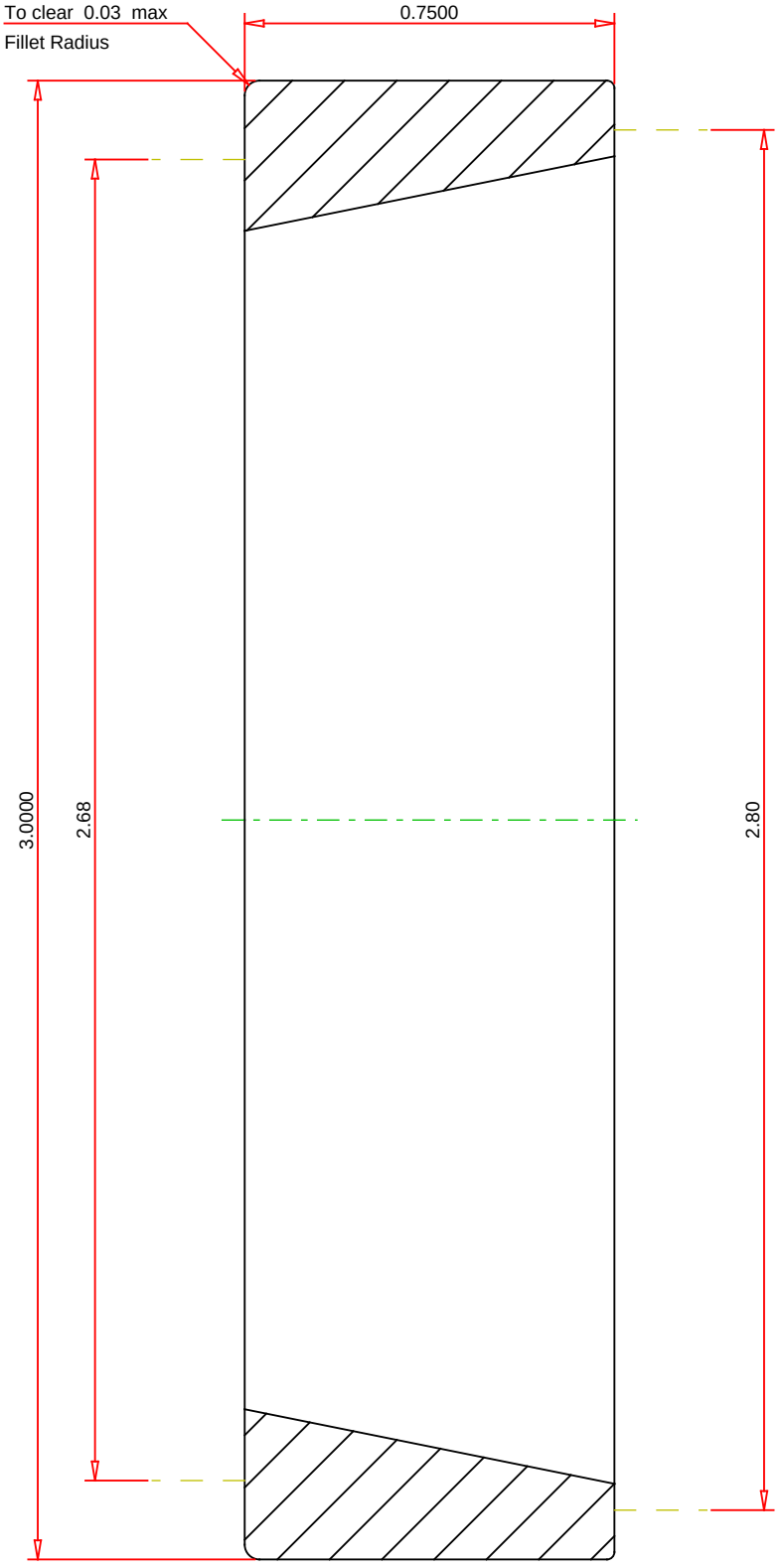
Abutment and Fillet Dimensions

r - Cup Backface "To Clear" Radius[1]	0.03 in 0.76 mm
Da - Cup Frontface Backing Diameter	2.80 in 71.10 mm
Db - Cup Backface Backing Diameter	2.68 in 68.07 mm

Factors

e - ISO Factor[2]	0.3
Y - ISO Factor[3]	1.98
Cg - Geometry Factor[4]	0.0725

[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

K149561
SINGLE TAPERED CUP

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

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FOR DISCUSSION ONLY