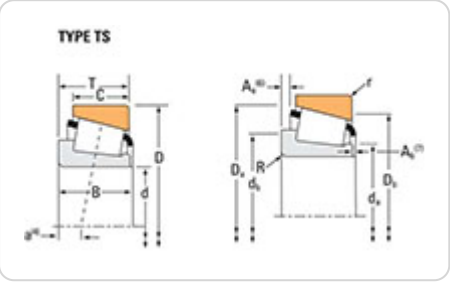
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Part Number 12303, Tapered Roller Bearings - Single Cups - Imperial





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.

Other Dimensions

Weight	0.30 Kg 0.7 lb

C - Cup Width	0.4688 in 11.908 mm
Max Housing Fillet Radius[1]	0.06 in 1.52 mm
Housing Backing Shoulder Diameter - Frontface (Da)	2.91 in 73.9 mm
Housing Backing Shoulder Diameter - Backface (Db)	2.68 in 68.07 mm

Key Dimensions

Series	12000
Cup Part Number	12303
O.D. (D)	3.0312 in 76.992 mm
K Factor [2]	1.15
e Factor [3]	0.51
Y Factor [4]	1.19

Factors

G1 Factor	21
G2 Factor	15.8
Geometry Factor (Cg)[5]	0.0766

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

[5] Geometry constant for Lubrication Life Adjustment Factor a3l.