

DIMENSIONAL TOLERANCES ANSI B16.47

DIMENSIONAL TOLERANCES				
LARGE DIAMETER FLANGES				
ASME B16.47				
O	Outside Diameter*		±0.12"	±3.2 mm
R	Diameter of Contact Face	0.06" (1.6mm) raised face 0.25" (6.4mm) raised face	±0.08" ±0.04"	±2.0 mm ±1.2 mm
A	Diameter of Hub at Point of Welding		+0.21", -0.06"	+5.5 mm, -1.6 mm
B	Inside Diameter		+0.12", -0.06"	+3.2 mm, -1.6 mm
C	Thickness	Up to 1.0" thickness 1.0" to 2.0" 2.0" to 3.0" Over 3.0" thickness	+0.12", -0.00" +0.19", -0.00" +0.31", -0.00" +0.38", -0.00"	+3.2 mm, -0.0 mm +4.8 mm, -0.0 mm +7.9 mm, -0.0 mm +9.6 mm, -0.0 mm
	Drilling	Bolt Circle Diameter Bolt Hole Spacing	±0.06" ±0.03"	±1.6 mm ±0.8 mm
	Eccentricity of Bolt Circle and Facing with Respect to Bore		±0.06"	±1.6 mm
	Length Through Hub for Welding Neck Flanges		±0.19"	±4.8 mm

*Not an ASME tolerance.

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