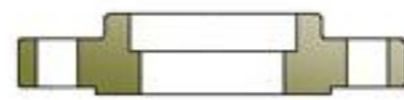




Slip-On



Lap Joint



Socketweld



Threaded



Blind

## DIMENSIONAL TOLERANCES - ASME B16.5

Threaded, Slip-On, Lap Joint and Blind Flanges				
O	Outside Diameter**	When O is 24" or less.	±0.06"	±1.6 mm
		When O is over 24"	±0.125"	±3.2 mm
R	Diameter of Contact Face	0.06" (1.6 mm) raised face.	±0.03"	±0.8 mm
		0.25" (6.4 mm) raised face.	±0.02"	±0.5 mm
O	Outside Diameter of Hub*	12" and smaller	±0.094", -0.06"	±2.39 mm, -1.6 mm
		14" and larger	±0.125"	±3.2 mm
B	Inside Diameter	Socket Welding Flanges - 10" and smaller	±0.03"	±0.8 mm
		Socket Welding Flanges - 12" through 18", inclusive	±0.06"	±1.6 mm
		Socket Welding Flanges - 20" and larger	+0.12", -0.06"	±3.2 mm, -1.6 mm
		Threaded	Within limits on boring gauge	Within limits on boring gauge
		Slip-On & Lap Joint - 10" and smaller	+0.06", -0	+1.6 mm, -0
		Slip-On & Lap Joint - 12" and larger	+0.06", -0	+1.6 mm, -0
O	Diameter of Counterbore	Same as for Inside Diameter		
C	Thickness	18" and smaller	+0.125, -0	+3.2 mm, -0
		20" and larger	+0.19, -0	+4.83 mm, -0
		Where allowance has been left on face for finish: All sizes*	+0.125, -0.06	+3.2 mm, -1.6mm
	Drilling	Bolt circle diameter	±0.06"	±1.6 mm
		Bolt hole spacing	±0.03"	±0.8 mm
	Eccentricity of Bolt Circle and Facing with respect to Bore*	2 1/2" and smaller	0.03 Max	0.8 mm Max
		3" and larger	0.06 Max	1.6 mm Max
	Length Through Hub	18" and smaller	+0.125", -0.03"	+3.2 mm, -0.8 mm
		20" and larger	+0.19", -0.06"	+4.83 mm, -1.6 mm

\*Tolerance for these dimensions are not covered by ANSI B16.5  
 ‡ Actual Flange OD, other size references mean Nominal Pipe Size.