

STAINLESS STEEL FLANGE DIMENSIONAL TOLERANCES

Threaded, Slip-On, Lap Joint and Blind Flanges

Outside Diameter*	When OD is 24" or less	$\pm 1/16"$
	When OD is over 24"	$\pm 1/8"$
Inside Diameter	Threaded	Within limits on boring gauge
	Slip-On and Lap Joint 10" and smaller	$+ 1/32", -0"$
	12" and larger	$+1/16", -0"$
Diameter of Counterbore	10" and smaller	$+1/32", -0"$
	12" and larger	$+1/16", -0"$
Diameter of Contact Face	1/16" Raised Face	$\pm 1/32"$
	1/4" Raised Face Tongue and Groove or Male and Female	$\pm 1/64"$
Outside Diameter of Hub*	12" and smaller	$+3/32", -1/16"$
	14" and larger	$\pm 1/8"$
Drilling*	Bolt Circle	$\pm 1/16"$
	Bolt hole spacing	$\pm 1/32"$
	Eccentricity of Bolt Circle and Facing (with respect to bore)	1/32" max
Length Thru Hub	18" and smaller	$+1/8", -1/32"$
	20" and larger	$+3/16", -1/16"$
Thickness	18" and smaller	$+1/8", -0"$
	20" and larger	$+3/16", -0"$
	Where allowance has been left on face for finish. All sizes*	$+1/8", -1/16"$

In accordance with ANSIB16.5

*Tolerance for these dimensions not covered by ANSIB16.5

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Welding Neck Flanges		
Outside Diameter*	When OD is 24" or less	$\pm 1/16"$
	When OD is over 24"	$\pm 1/8"$
Inside Diameter	10" and smaller	$\pm 1/32"$
	12" through 18"	$+ 1/16"$
	20" and larger	$+1/8", -1/16"$
Diameter of Contact Face	1/16" Raised Face	$\pm 1/32"$
	1/4" Raised Face Tongue and Groove or Male and Female	$\pm 1/64"$
Diameter of Hub at Point of Welding	5" and smaller	$+3/32", -1/32"$
	6" and larger	$+5/32", -1/32"$
Welding Bevel Standards	see drawings on Page 78	
Diameter of Hub at Base*	When Hub Base is 24" or less	$\pm 1/16"$
	When Hub Base is over 24"	$\pm 1/8"$
Drilling*	Bolt Circle	$\pm 1/16"$
	Bolt hole spacing	$+1/32"$
	Eccentricity of Bolt Circle and Facing (with respect to bore)	1/32" max
Length Thru Hub	10" and smaller	$\pm 1/16"$
	12" and larger	$\pm 1/8"$
Thickness	18" and smaller	$+1/8", -0"$
	20" and larger	$+3/16", -0"$
	Where allowance has been left on face for finish. All sizes*	$+1/8", -1/16"$

In accordance with ANSIB16.5

*Tolerance for these dimensions not covered by ANSIB16.5