

BS - 10 : 1962 PRESSURE - TEMPERATURE RATINGS FOR CARBON STEEL FLANGES.

Table	°F 0-450	500	550	600	650	700	750	800	825	850	875	900	Max. Hydraulic Test pressure
	-17.8 to 232.2 °C	260.0	287.8	315.6	343.3	371.1	399	427	441	454	468	482	
D	100	95	85	80	70	65	55	50	--	--	--	--	150
E	200	185	170	155	140	130	115	100	--	--	--	--	300
F	300	280	255	235	215	195	170	150	--	--	--	--	450
H	500	465	430	395	355	320	285	250	215	180	150	115	750
J	700	650	600	550	500	450	400	350	300	255	210	160	1050
K	900	835	770	705	645	580	515	450	390	325	265	205	1350
R	1200	1115	1030	945	855	770	685	600	520	435	355	275	1800
S	1800	1670	1545	1415	1285	1155	1030	900	780	655	535	415	2700
T	2800	2600	2400	2200	2000	1800	1600	1400	1210	1025	835	645	4200

DIMENSIONAL TOLERANCES FOR ANSI B 16.5 FLANGES

THREADED, SLIP-ON, LAP JOINT AND BLIND			WELDING NECK			
Outside Diameter	When O.D. is 24" or less	± 1/16"	Outside Diameter	When O.D. is 24" or Less	± 1/16"	
Inside Diameter	Threaded	To Standard Gauge Limits	Inside Diameter	10" and Smaller	± 1/32"	
	Slip-on and Lap Joint	10" and Smaller + 1/32", - 0"		12" thru 18"	± 1/16"	
Outside Diameter of Hub	12" and Smaller	+ 3/32" - 1/16"	Diameter of Contact Face	1/16" Raised Face	± 1/32"	
	14" & above	± 1/8"		1/4" Raised Face Tongue & Groove Male, Female	± 1/64"	
Diameter of Contact Face	1/16" Raised Face	± 1/32"	Diameter of Hub at Base	When "X" is 24" or Smaller	± 1/16"	
	1/4" Raised Face Tongue & Groove Male, Female	± 1/64"		Diameter Hub at Point of Welding	5" and Smaller	+ 3/32", - 1/32"
Diameter of Counterbore	10" and Smaller	+ 1/32", - 0"	Drilling	6" & Larger	+ 5/32", - 1/32"	
	12" & above	+ 1/16", - 0"		Bolt Circle	1/2" to 24" ± 1/16"	
Drilling	Bolt Circle	1/2" to 24" ± 1/16"	Thickness	Bolt Hole spacing	± 1/32"	
	Bolt Hole spacing	± 1/32"		Length Thru Hub	Eccentricity of Bolt Circle with Respect to Bore	1/32" Max.
	Eccentricity of Bolt Circle with Respect to Bore	1/32" Max.			18" and Smaller	+ 1/8", - 0"
Thickness	Eccentricity of Facing with Respect to Bore	1/32" Max.	Length Thru Hub	20" and above	+ 3/16", - 0"	
	18" and Smaller	+ 1/8", - 0"		10" and Smaller	± 1/16"	
Length Thru Hub	20" and above	+ 3/16", - 0"	Length Thru Hub	12" and above	± 1/8"	
	10" and Smaller	± 1/16"				
Length Thru Hub	12" and above	± 1/8"				