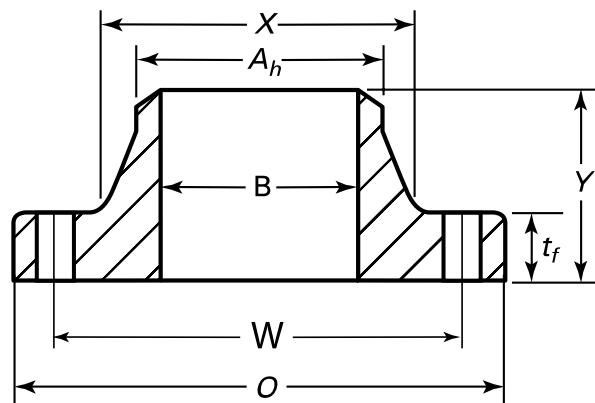




WELDING NECK FLANGE STEEL ASTM A105 ANSI B16.5 FF (FLAT FACE) CLASS 150 SCH40

cod. 050141



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TOLERANCES

Flange Thickness		Length Through Hub on Welding Neck Flanges		Center-to-Contact Surfaces		Contact Surface-to-Contact Surface		Bolt Circle Diameter	Bolt Hole to Bolt Hole	Bolt Circle Concentricity		Outside Diameter of welding ends		Inside Diameter of welding ends	
Size	Tolerance, mm (in.)	Size	Tolerance, mm (in.)	Size	Tolerance, mm (in.)	Size	Tolerance, mm (in.)			Size	Tolerance, mm (in.)	Size	Tolerance, mm (in.)	Size	Tolerance, mm (in.)
NPS ≤ 18	+3.0, -0.0 (+0.12, -0.00)	NPS ≤ 4	±1.5 (±0.06)	NPS ≤ 10	±1.0 (±0.04)	NPS ≤ 10	±2.0 (±0.08)			NPS ≤ 2 1/2	0.8 (0.03)	NPS ≤ 5	+2.0, -1.0 (+0.08, -0.04)	NPS ≤ 10	±1.0 (±0.04)
NPS ≥ 20	+5.0, -0.0 (+0.20, -0.00)	5 ≤ NPS ≤ 10	+1.5, -3.0 (+0.06, -0.12)	NPS ≥ 12	±1.5 (±0.06)	NPS ≥ 12	±3.0 (±0.12)	±1.5 mm (±0.06 in.)	±0.8 mm (±0.03 in.)	NPS ≥ 3	1.5 (0.06)	NPS ≥ 6	+4.0, -1.0 (+0.16, -0.04)	12 ≤ NPS ≤ 18	±1.5 (±0.06)
		NPS ≥ 12	+3.0, -5.0 (+0.12, -0.20)											NPS ≥ 20	+3.0, -1.5 (+0.12, -0.06)

Dimensions are in mm

Nominal Pipe Size, NPS	Outside Diameter of Flange (O)	Minimum Thickness of Flange, (tr)	Diameter of Hub (X)	Hub Diameter Beginning of Chamfer Welding Neck (Ah)	Length Through Hub (Y)	Bore (B)	Diameter of Bolt Circle (W)	Diameter of Bolt Holes (inch)	Number of Bolts	Diameter of Bolts (inch)	Weight Approx. (kg)
inch											
1/2"	89	9.7	30	21.3	46	15.7	60.5	5/8	4	1/2	0.51
3/4"	99	11.2	38	26.7	51	20.8	69.8	5/8	4	1/2	0.73
1"	108	12.7	49	33.5	54	26.7	79.2	5/8	4	1/2	1.07
1 1/4"	117	14.2	59	42.2	56	35.1	88.9	5/8	4	1/2	1.40
1 1/2"	127	15.9	65	48.3	60	40.9	98.6	5/8	4	1/2	1.81
2"	152	17.5	78	60.5	62	52.6	120.6	3/4	4	5/8	2.59
2 1/2"	178	20.6	90	73.2	68	62.7	139.7	3/4	4	5/8	4.28
3"	190	22.4	108	88.9	68	78.0	152.4	3/4	4	5/8	5.18
3 1/2"	216	22.4	122	101.6	70	90.2	177.8	3/4	8	5/8	-
4"	229	22.4	135	114.3	75	102.4	190.5	3/4	8	5/8	7.32
5"	254	22.4	164	141.2	87	128.3	215.9	7/8	8	3/4	8.91
6"	279	23.9	192	168.4	87	154.2	241.3	7/8	8	3/4	11.26
8"	343	26.9	246	219.2	100	202.7	298.4	7/8	8	3/4	17.68
10"	406	28.4	305	273.0	100	254.5	362.0	1	12	7/8	24.79
12"	483	30.2	365	323.8	113	304.8	431.8	1	12	7/8	38.98
14"	533	33.3	400	355.6	125	[Note 1]	476.2	1 1/8	12	1	51.71
16"	597	35.1	457	406.4	125	[Note 1]	539.8	1 1/8	16	1	64.41
18"	635	38.1	505	457.2	138	[Note 1]	577.8	1 1/4	16	1 1/8	74.84
20"	698	41.1	559	508.0	143	[Note 1]	635.0	1 1/4	20	1 1/8	89.36
22"	749	44.4	610	558.8	148	[Note 1]	692.2	1 3/8	20	1 1/4	-
24"	813	46.0	663	609.6	151	[Note 1]	749.3	1 3/8	20	1 1/4	119.66

* Note : Dimensions, design and materials are subject to change without notice. Reference weights

