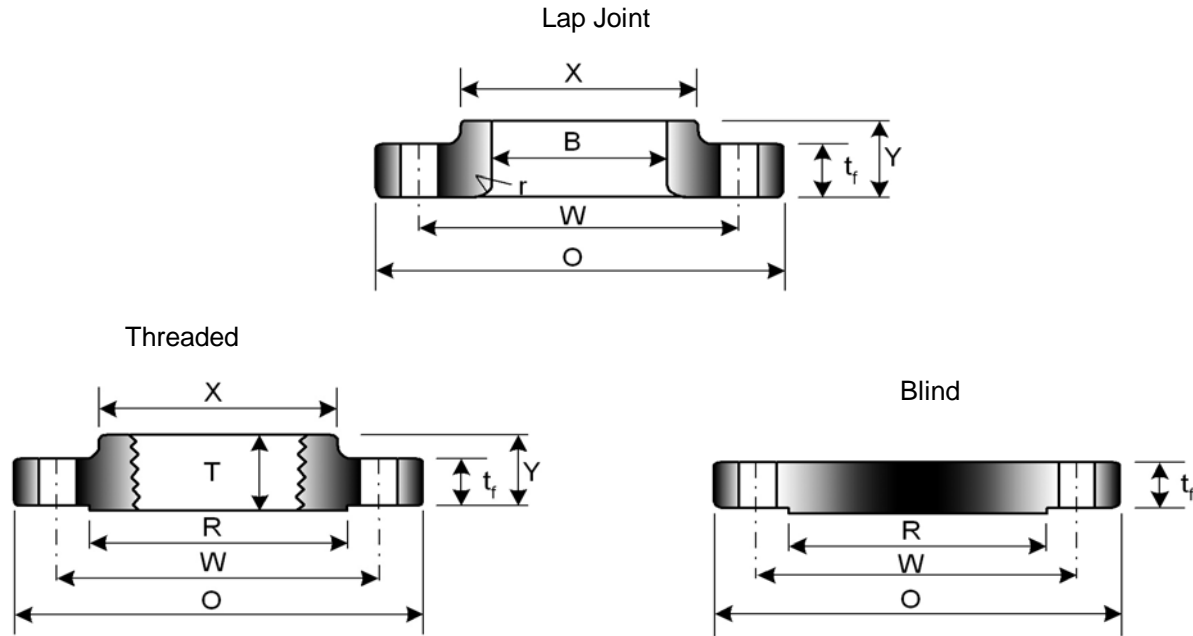


Nominal Pipe Size NPS	O.D. of Flange O	Thickness		Diameter of Hub X	Diameter at Bevel A	Length Through Hub			Diameter of Bore ⁽²⁾		Thread Length ⁽³⁾ T (min)	Depth of Socket D
		Flange ⁽¹⁾ t_f (min)	Lap Joint t_f (min)			W/N $Y^{(1)}$	S/O, Thrd. S/W $Y^{(1)}$	Lap Joint $Y^{(1)}$	S/O, S/W B (min)	Lap Joint B (min)		
1/2	3.50	0.38	0.44	1.19	0.84	1.81	0.56	0.62	0.88	0.90	0.62	0.38
3/4	3.88	0.44	0.50	1.50	1.05	2.00	0.56	0.62	1.09	1.11	0.62	0.44
1	4.25	0.50	0.56	1.94	1.32	2.12	0.62	0.69	1.36	1.38	0.69	0.50
1 1/4	4.62	0.56	0.62	2.31	1.66	2.19	0.75	0.81	1.70	1.72	0.81	0.56
1 1/2	5.00	0.62	0.69	2.56	1.90	2.38	0.81	0.88	1.95	1.97	0.88	0.62
2	6.00	0.69	0.75	3.06	2.38	2.44	0.94	1.00	2.44	2.46	1.00	0.69
2 1/2	7.00	0.81	0.88	3.56	2.88	2.69	1.06	1.12	2.94	2.97	1.12	0.75
3	7.50	0.88	0.94	4.25	3.50	2.69	1.12	1.19	3.57	3.60	1.19	0.81
3 1/2	8.50	0.88	0.94	4.81	4.00	2.75	1.19	1.25	4.07	4.10	1.25	...
4	9.00	0.88	0.94	5.31	4.50	2.94	1.25	1.31	4.57	4.60	1.31	...
5	10.00	0.88	0.94	6.44	5.56	3.44	1.38	1.44	5.66	5.69	1.44	...
6	11.00	0.94	1.00	7.56	6.63	3.44	1.50	1.56	6.72	6.75	1.56	...
8	13.50	1.06	1.12	9.69	8.63	3.94	1.69	1.75	8.72	8.75	1.75	...
10	16.00	1.12	1.19	12.00	10.75	3.94	1.88	1.94	10.88	10.92	1.94	...
12	19.00	1.19	1.25	14.38	12.75	4.44	2.12	2.19	12.88	12.92	2.19	...
14	21.00	1.31	1.38	15.75	14.00	4.94	2.19	3.12	14.14	14.18	2.25	...
16	23.50	1.38	1.44	18.00	16.00	4.94	2.44	3.44	16.16	16.19	2.50	...
18	25.00	1.50	1.56	19.88	18.00	5.44	2.62	3.81	18.18	18.20	2.69	...
20	27.50	1.62	1.69	22.00	20.00	5.62	2.81	4.06	20.20	20.25	2.88	...
24	32.00	1.81	1.88	26.12	24.00	5.94	3.19	4.38	24.25	24.25	3.25	...

All dimensions are given in inches.



Corner Radius of Bore r	Diameter of RF R	Diameter of Bolt Circle W	Number of Bolt Holes	Diameter of Bolt Holes	Diameter of Bolts	Length of Studs ⁽⁴⁾		Approximate Weight Each in Pounds				Nominal Pipe Size NPS
						0.06" RF	Ring Joint	Welding Neck	S/O, S/W, Threaded	Lap Joint	Blind	
0.12	1.38	2.38	4	0.62	1/2	2.25	...	2	1	1	1	1/2
0.12	1.69	2.75	4	0.62	1/2	2.50	...	2	2	2	2	3/4
0.12	2.00	3.12	4	0.62	1/2	2.50	3.00	3	2	2	2	1
0.19	2.50	3.50	4	0.62	1/2	2.75	3.25	3	3	3	3	1 1/4
0.25	2.88	3.88	4	0.62	1/2	2.75	3.25	4	3	3	4	1 1/2
0.31	3.62	4.75	4	0.75	5/8	3.25	3.75	6	5	5	5	2
0.31	4.12	5.50	4	0.75	5/8	3.50	4.00	8	7	7	7	2 1/2
0.38	5.00	6.00	4	0.75	5/8	3.50	4.00	10	8	8	9	3
0.38	5.50	7.00	8	0.75	5/8	3.50	4.00	12	11	11	13	3 1/2
0.44	6.19	7.50	8	0.75	5/8	3.50	4.00	15	13	13	17	4
0.44	7.31	8.50	8	0.88	3/4	3.75	4.25	19	15	15	20	5
0.50	8.50	9.50	8	0.88	3/4	4.00	4.50	24	19	19	26	6
0.50	10.62	11.75	8	0.88	3/4	4.25	4.75	39	30	30	45	8
0.50	12.75	14.25	12	1.00	7/8	4.50	5.00	52	43	43	70	10
0.50	15.00	17.00	12	1.00	7/8	4.75	5.25	80	64	64	110	12
0.50	16.25	18.75	12	1.12	1	5.25	5.75	110	90	105	140	14
0.50	18.50	21.25	16	1.12	1	5.25	5.75	140	98	140	180	16
0.50	21.00	22.75	16	1.25	1 1/8	5.75	6.25	150	130	160	220	18
0.50	23.00	25.00	20	1.25	1 1/8	6.25	6.75	180	165	195	285	20
0.50	27.25	29.50	20	1.38	1 1/4	6.75	7.25	260	220	275	430	24

Notes:

- (1) 1/16" RF NOT included in Flange Thickness (t_f) and Length Through Hub (Y).
- (2) Bore diameter of Welding Neck Flange and small bore of Socket Weld Flange to be specified by purchaser.
- (3) Class 150 Threaded Flanges are made without a counterbore. Threads are per ASME B1.20.1.
- (4) Stud lengths noted are thread to thread, and assume a 1/8" gasket thickness.