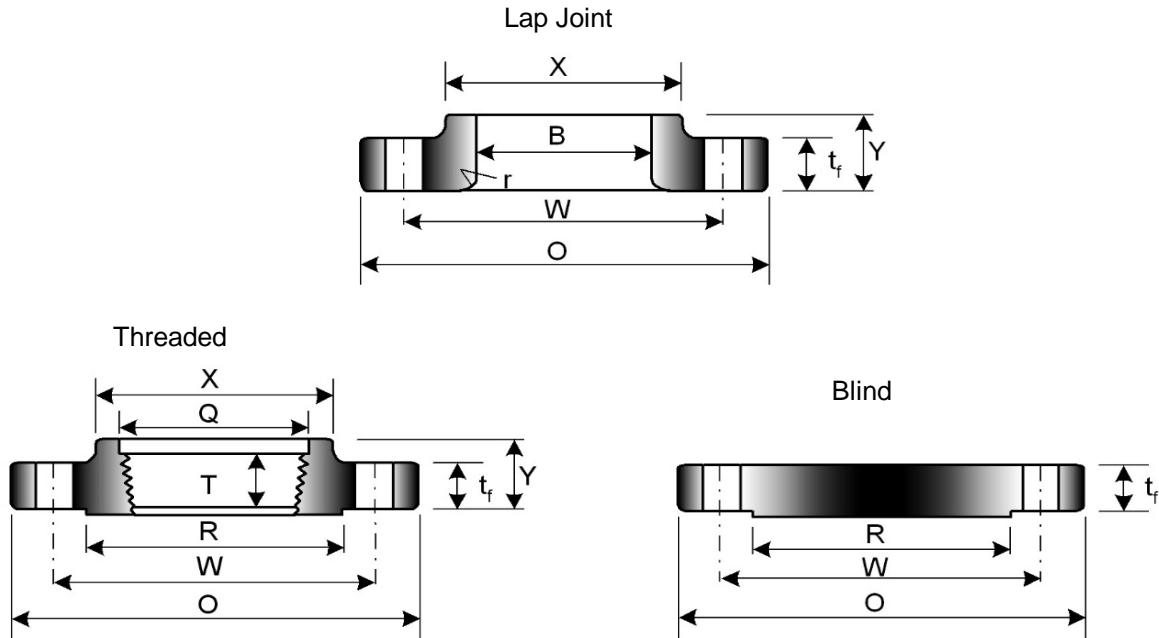


Nominal Pipe Size NPS	O.D. of Flange O	Thickness		Diameter of Hub X	Diameter at Bevel A	Length Through Hub			Diameter of Bore <sup>(2)</sup>			Thread Length <sup>(3)</sup> T (min)	Depth of Socket D
		Flange <sup>(1)</sup> t <sub>f</sub> (min)	Lap Joint t <sub>f</sub> (min)			W/N Y <sup>(1)</sup>	S/O, Thrd. S/W Y <sup>(1)</sup>	Lap Joint Y <sup>(1)</sup>	S/O, S/W B (min)	Lap Joint B (min)	Counter-bore Q (min)		
1/2	3.75	0.50	0.56	1.50	0.84	2.00	0.81	0.88	0.88	0.90	0.93	0.62	0.38
3/4	4.62	0.56	0.62	1.88	1.05	2.19	0.94	1.00	1.09	1.11	1.14	0.62	0.44
1	4.88	0.62	0.69	2.12	1.32	2.38	1.00	1.06	1.36	1.38	1.41	0.69	0.50
1 1/4	5.25	0.69	0.75	2.50	1.66	2.50	1.00	1.06	1.70	1.72	1.75	0.81	0.56
1 1/2	6.12	0.75	0.81	2.75	1.90	2.63	1.13	1.19	1.95	1.97	1.98	0.88	0.62
2	6.50	0.81	0.88	3.31	2.38	2.69	1.25	1.31	2.44	2.46	2.50	1.12	0.69
2 1/2	7.50	0.94	1.00	3.94	2.88	2.94	1.44	1.50	2.94	2.97	3.00	1.25	0.75
3	8.25	1.06	1.12	4.62	3.50	3.06	1.63	1.69	3.57	3.60	3.63	1.25	0.81
3 1/2	9.00	1.12	1.19	5.25	4.00	3.13	1.69	1.75	4.07	4.10	4.13	1.44	...
4	10.00	1.19	1.25	5.75	4.50	3.32	1.82	1.88	4.57	4.60	4.63	1.44	...
5	11.00	1.31	1.38	7.00	5.56	3.82	1.94	2.00	5.66	5.69	5.69	1.69	...
6	12.50	1.38	1.44	8.12	6.63	3.82	2.00	2.06	6.72	6.75	6.75	1.81	...
8	15.00	1.56	1.62	10.25	8.63	4.32	2.38	2.44	8.72	8.75	8.75	2.00	...
10	17.50	1.81	1.88	12.62	10.75	4.56	2.56	3.75	10.88	10.92	10.88	2.19	...
12	20.50	1.94	2.00	14.75	12.75	5.06	2.82	4.00	12.88	12.92	12.94	2.38	...
14	23.00	2.06	2.12	16.75	14.00	5.56	2.94	4.38	14.14	14.18	14.19	2.50	...
16	25.50	2.19	2.25	19.00	16.00	5.69	3.19	4.75	16.16	16.19	16.19	2.69	...
18	28.00	2.31	2.38	21.00	18.00	6.19	3.44	5.12	18.18	18.20	18.19	2.75	...
20	30.50	2.44	2.50	23.12	20.00	6.32	3.69	5.50	20.20	20.25	20.19	2.88	...
24	36.00	2.69	2.75	27.62	24.00	6.56	4.13	6.00	24.25	24.25	24.19	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 <sup>(4)</sup>		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	2.62	4	0.62	1/2	2.50	3.00	2	2	2	2	1/2
0.12	1.69	3.25	4	0.75	5/8	3.00	3.50	3	3	3	3	3/4
0.12	2.00	3.50	4	0.75	5/8	3.00	3.50	4	3	3	3	1
0.19	2.50	3.88	4	0.75	5/8	3.25	3.75	5	4	4	4	1 1/4
0.25	2.88	4.50	4	0.88	3/4	3.50	4.00	7	6	6	6	1 1/2
0.31	3.62	5.00	8	0.75	5/8	3.50	4.00	9	7	7	8	2
0.31	4.12	5.88	8	0.88	3/4	4.00	4.50	12	10	10	12	2 1/2
0.38	5.00	6.62	8	0.88	3/4	4.25	4.75	15	13	13	16	3
0.38	5.50	7.25	8	0.88	3/4	4.25	5.00	18	17	17	21	3 1/2
0.44	6.19	7.88	8	0.88	3/4	4.50	5.00	25	22	22	27	4
0.44	7.31	9.25	8	0.88	3/4	4.75	5.25	32	28	28	35	5
0.50	8.50	10.62	12	0.88	3/4	4.75	5.50	42	39	39	50	6
0.50	10.62	13.00	12	1.00	7/8	5.50	6.00	67	58	58	81	8
0.50	12.75	15.25	16	1.12	1	6.25	6.75	91	81	91	125	10
0.50	15.00	17.75	16	1.25	1 1/8	6.75	7.25	140	115	140	185	12
0.50	16.25	20.25	20	1.25	1 1/8	7.00	7.50	180	165	190	250	14
0.50	18.50	22.50	20	1.38	1 1/4	7.50	8.00	250	190	250	295	16
0.50	21.00	24.75	24	1.38	1 1/4	7.75	8.25	320	250	295	395	18
0.50	23.00	27.00	24	1.38	1 1/4	8.00	8.75	400	315	370	505	20
0.50	27.25	32.00	24	1.62	1 1/2	9.00	10.00	580	475	550	790	24

**Notes:**

- (1) 1/16" RF NOT included in Flange Thickness (t<sub>f</sub>) 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 300 Threaded Flanges are made with a counterbore. Threads are per ASME B1.20.1.
- (4) Stud lengths noted are thread to thread, and assume a 1/8" gasket thickness.