



## Class 400 lb

Pipe		Flange Data					Hub	Raised Face	Drilling Data			Weight
Nominal Pipe Size		A	B	C	D	E	F	G	H	I	J	
	Outside Diameter	Overall Diameter	Counter-bore min	Flange Thickness min	Overall Length	Threaded length min	Hub Diameter	Face Diameter	Number of Holes	Bolt Hole Diameter	Diameter of Circle of Holes	kg/ piece
	in	in	in	in	in	in	in	in		in	in	
1/2	0.840	3.750	0.930	0.560	0.880	0.620	1.500	1.380	4	0.620	2.620	0.74
	21.30	95.30	23.60	14.20	22.40	15.70	38.10	35.10		15.70	66.55	
3/4	1.050	4.620	1.140	0.620	1.000	0.620	1.880	1.690	4	0.750	3.250	1.27
	26.70	117.3	29.00	15.70	25.40	15.70	47.80	42.90		19.10	82.60	
1	1.315	4.880	1.410	0.690	1.060	0.690	2.120	2.000	4	0.750	3.500	1.52
	33.40	124.0	35.80	17.50	26.90	17.50	53.80	50.80		19.10	88.90	
1 1/4	1.660	5.250	1.750	0.810	1.120	0.810	2.500	2.500	4	0.750	3.880	2.03
	42.20	133.4	44.50	20.60	28.40	20.60	63.50	63.50		19.10	98.60	
1 1/2	1.900	6.120	1.990	0.880	1.250	0.880	2.750	2.880	4	0.880	4.500	2.96
	48.30	155.4	50.50	22.40	31.75	22.40	69.85	73.15		22.40	114.3	
2	2.375	6.500	2.500	1.000	1.440	1.120	3.310	3.620	8	0.750	5.000	3.62
	60.30	165.1	63.50	25.40	36.60	28.40	84.10	91.90		19.10	127.0	
2 1/2	2.875	7.500	3.000	1.120	1.620	1.250	3.940	4.120	8	0.880	5.880	5.28
	73.00	190.5	76.20	28.40	41.10	31.75	100.1	104.6		22.40	149.4	
3	3.500	8.250	3.630	1.250	1.810	1.380	4.620	5.000	8	0.880	6.620	7.00
	88.90	209.6	92.20	31.75	46.00	35.10	117.3	127.0		22.40	168.1	
3 1/2	4.000	9.000	4.130	1.380	1.940	1.560	5.250	5.500	8	1.000	7.250	8.84
	101.6	228.6	104.9	35.10	49.30	39.60	133.4	139.7		25.40	184.2	
4	4.500	10.00	4.630	1.380	2.000	1.440	5.750	6.190	8	1.000	7.880	11.1
	114.3	254.0	117.6	35.10	50.80	36.60	146.1	157.2		25.40	200.2	
5	5.563	11.00	5.690	1.500	2.120	1.690	7.000	7.310	8	1.000	9.250	13.9
	141.3	279.4	144.5	38.10	53.80	42.90	177.8	185.7		25.40	235.0	
6	6.625	12.50	6.750	1.620	2.250	1.810	8.120	8.500	12	1.000	10.62	18.3
	168.3	317.5	171.5	41.10	57.15	46.00	206.2	215.9		25.40	269.7	
8	8.625	15.00	8.750	1.880	2.690	2.000	10.25	10.62	12	1.120	13.00	28.6
	219.1	381.0	222.3	47.80	68.30	50.80	260.4	269.7		28.40	330.2	
10	10.75	17.50	10.88	2.120	2.880	2.190	12.62	12.75	16	1.250	15.25	39.2
	273.0	444.5	276.4	53.80	73.15	55.60	320.5	323.9		31.75	387.4	
12	12.75	20.50	12.94	2.250	3.120	2.380	14.75	15.00	16	1.380	17.75	57.0
	323.8	520.7	328.7	57.15	79.25	60.45	374.7	381.0		35.10	450.9	
14	14.00	23.00	14.19	2.380	3.310	2.500	16.75	16.25	20	1.380	20.25	79.1
	355.6	584.2	360.4	60.45	84.10	63.50	425.5	412.8		35.10	514.4	
16	16.00	25.50	16.19	2.500	3.690	2.690	19.00	18.50	20	1.500	22.50	101
	406.4	647.7	411.2	63.50	93.70	68.30	482.6	469.9		38.10	571.5	
18	18.00	28.00	18.19	2.620	3.880	2.750	21.00	21.00	24	1.500	24.75	123
	457.2	711.2	462.0	66.55	98.60	69.85	533.4	533.4		38.10	628.7	
20	20.00	30.50	20.19	2.750	4.000	2.880	23.12	23.00	24	1.620	27.00	146
	508.0	774.7	512.8	69.85	101.6	73.15	587.2	584.2		41.10	685.8	
24	24.00	36.00	24.19	3.000	4.500	3.250	27.62	27.25	24	1.880	32.00	219
	609.6	914.4	614.4	76.20	114.3	82.60	701.5	692.2		47.80	812.8	

### Notes

- The thread conforms to ASME B1.20.1 NTP threads as described in Section 10. (The only exceptions are small male and female plain face threaded flanges which use NPSL locknut threads.)
- Class 300 and higher threaded flanges are counter-bored. Threads are chamfered to the counterbore at an angle of 45° (approx).
- Weights are based on manufacturer's data and are approximate.