

FLANGE THICKNESS CHARTS

Steel Pipe Flanges For Waterworks Service 125/150

* Information extracted from
AWWA C207-94

* Table 4 may be used for valve
thickness calculation in some cases

NOM PIPE SIZE	BOLT SIZE	No. BOLTS	TABLE 2	TABLE 4	TABLE 5	ANSI SLIP ON FLANGE	TABLE 2	TABLE 3	
			CLASS D	CLASS E	CLASS E		CLASS B	CLASS B	CLASS D
1	1/2	4	—	—	—	0.563	—	—	—
1 1/2	1/2	4	—	—	—	0.688	—	—	—
2	5/8	4	—	—	—	0.750	—	—	—
2 1/2	5/8	4	—	—	—	0.875	—	—	—
3	5/8	4	—	—	—	0.938	—	—	—
4	5/8	8	0.625	0.938	1.125	0.938	0.625	0.500	0.500
5	3/4	8	0.625	0.938	1.188	0.938	0.625	0.562	0.562
6	3/4	8	0.688	1.000	1.313	1.000	0.688	0.562	0.562
8	3/4	8	0.688	1.125	1.500	1.125	0.688	0.562	0.562
10	7/8	12	0.688	1.188	1.563	1.188	0.688	0.688	0.688
12	7/8	12	0.812	1.250	1.750	1.250	0.688	0.688	0.688
14	1	12	0.938	1.375	1.875	1.375	0.688	0.750	0.750
16	1	16	1.000	1.438	2.000	1.438	0.688	0.750	0.750
18	1 1/8	16	1.062	1.562	2.125	1.562	0.688	0.750	0.750
20	1 1/8	20	1.125	1.688	2.375	1.688	0.688	0.750	0.750
24	1 1/4	20	1.250	1.875	2.625	1.875	0.750	1.000	1.000
30	1 1/4	28	1.375	2.125	2.875	2.125	0.875	1.000	1.000
36	1 1/2	32	1.625	2.375	3.125	2.375	1.000	1.125	1.125
42	1 1/2	36	1.750	2.375	3.125	2.375	1.125	1.250	1.250
48	1 1/2	44	1.875	2.750	3.500	—	1.250	1.375	1.375
54	1 3/4	44	2.125	3.000	3.750	—	1.375	1.375	1.375
60	1 3/4	52	2.250	3.125	3.875	—	1.500	1.500	1.500
66	1 3/4	52	2.500	3.375	4.250	—	1.625	1.500	1.500
72	1 3/4	60	2.625	3.500	4.375	—	1.750	1.500	1.500
84	2	64	2.875	3.875	4.750	—	2.000	1.750	1.750
90	2 1/4	68	3.000	4.250	5.125	—	2.250	2.000	2.000
96	2 1/4	68	3.250	4.250	5.125	—	2.250	2.000	2.000
102	2 1/2	72	3.250	—	5.500	—	2.500	—	—
108	2 1/2	72	3.375	—	5.500	—	2.500	—	—
120	2 3/4	76	3.500	—	5.875	—	2.750	—	—
144	3 1/4	84	4.125	—	6.750	—	3.250	—	—

TRIPAC

A DIVISION OF TRIPAC MARKETING, INC.

475 KLUG CIRCLE • CORONA, CA 92880-6406
(951) 280-4488 • FAX: (951) 272-4445

FLANGE THICKNESS CHARTS

Steel Pipe Flanges For Waterworks Service

125/150

NOM PIPE SIZE	BOLT SIZE	No. BOLTS	BLIND FLANGES			AWWA C110 DUCTILE AND GRAY IRON FITTINGS	AWWA C153 DUCTILE IRON COMPACT FITTINGS
			CLASS B	CLASS D	CLASS E		
3	5/8	4	—	—	—	0.75 ± .12 in.	0.60 ± .12 in.
4	5/8	8	0.625	0.625	1.125	0.94 ± .12 in.	0.63 ± .12 in.
6	3/4	8	0.688	0.692	1.313	1.00 ± .12 in.	0.63 ± .12 in.
8	3/4	8	0.688	0.805	1.500	1.12 ± .12 in.	0.70 ± .12 in.
10	7/8	12	0.688	0.947	1.563	1.19 ± .12 in.	0.75 ± .12 in.
12	7/8	12	0.752	1.110	1.750	1.25 ± .12 in.	0.81 ± .12 in.
14	1	12	0.835	1.127	1.875	1.38 ± .19 in.	0.87 ± .19 in.
16	1	16	0.941	1.258	2.000	1.44 ± .19 in.	0.90 ± .19 in.
18	1 1/8	16	1.013	1.326	2.125	1.56 ± .19 in.	0.93 ± .19 in.
20	1 1/8	20	1.108	1.442	2.375	1.69 ± .19 in.	0.96 ± .19 in.
24	1 1/4	20	1.275	1.657	2.625	1.88 ± .19 in.	1.00 ± .19 in.
30	1 1/4	28	1.530	2.003	2.875	2.12 ± .25 in.	2.12 ± .25 in.
36	1 1/2	32	1.834	2.369	3.344	2.38 ± .25 in.	2.38 ± .25 in.
42	1 1/2	36	2.084	2.725	3.789	2.62 ± .25 in.	2.62 ± .25 in.
48	1 1/2	44	2.341	3.067	4.246	2.75 ± .25 in.	2.75 ± .25 in.
54	1 3/4	44	2.634	3.431	4.776	—	—
60	1 3/4	52	2.892	3.774	5.236	—	—
66	1 3/4	52	3.139	4.132	5.674	—	—
72	1 3/4	60	3.399	4.476	6.137	—	—

250/300

NOM PIPE SIZE	BOLT SIZE	No. BOLTS	TABLE 6	ANSI SLIP ON FLANGES	BLIND FLANGES
			CLASS F		CLASS F
1	5/8	4	—	0.688	—
1 1/2	3/4	4	—	0.813	—
2	5/8	8	—	0.875	—
2 1/2	3/4	8	—	1.000	—
3	3/4	8	—	1.125	—
4	3/4	8	1.130	1.250	1.125
5	3/4	8	1.210	1.375	—
6	3/4	12	1.310	1.438	1.316
8	7/8	12	1.310	1.625	1.316
10	1	16	1.500	1.875	1.534
12	1 1/8	16	1.630	2.000	1.730
14	1 1/8	20	1.940	2.125	1.938
16	1 1/4	20	2.140	2.250	2.139
18	1 1/4	24	2.250	2.375	2.294
20	1 1/4	24	2.330	2.500	2.401
24	1 1/2	24	2.690	2.750	2.799
30	1 3/4	28	3.150	—	3.419
36	2	32	3.460	—	4.017
42	2	36	3.810	—	4.450
48	2	40	4.500	—	4.991

TRIPAC

A DIVISION OF TRIPAC MARKETING, INC.

475 KLUG CIRCLE • CORONA, CA 92880-6406
(951) 280-4488 • FAX: (951) 272-4445