

**REFERENCE CHART**  
**FLANGE TO FLANGE - STANDARD FACING\***  
**ALL STANDARD PRESSURE RATINGS**

Pipe Size	CLASS 125 Cast Iron Flanges 150 lb. Forged Steel Flanges		CLASS 250 Cast Iron Flanges 300 lb. Forged Steel Flanges		400 lb. Forged Steel Flanges	
	No.	Stud-Bolts Dia. x Length	No.	Stud-Bolts Dia. x Length	No.	Stud-Bolts Dia. x Length
1/2	4	1/2 x 2-1/2	4	1/2 x 2-3/4	4	1/2 x 3-1/4
3/4	4	1/2 x 2-1/2	4	5/8 x 3-1/4	4	5/8 x 3-3/4
1	4	1/2 x 2-3/4	4	5/8 x 3-1/4	4	5/8 x 3-3/4
1-1/4	4	1/2 x 2-3/4	4	5/8 x 3-1/2	4	5/8 x 4
1-1/2	4	1/2 x 3	4	3/4 x 3-3/4	4	3/4 x 4-1/2
2	4	5/8 x 3-1/2	8	5/8 x 3-3/4	8	5/8 x 4-1/2
2-1/2	4	5/8 x 3-3/4	8	3/4 x 4-1/4	8	3/4 x 5
3	4	5/8 x 3-3/4	8	3/4 x 4-1/2	8	3/4 x 5-1/4
3-1/2	8	5/8 x 3-3/4	8	3/4 x 4-1/2	8	7/8 x 5-3/4
4	8	5/8 x 3-3/4	8	3/4 x 4-3/4	8	7/8 x 5-3/4
5	8	3/4 x 4	8	3/4 x 5	8	7/8 x 6
6	8	3/4 x 4-1/4	12	3/4 x 5	12	7/8 x 6-1/4
8	8	3/4 x 4-1/2	12	7/8 x 5-3/4	12	1 x 7
10	12	7/8 x 4-3/4	16	1 x 6-1/2	16	1-1/8 x 7-3/4
12	12	7/8 x 5	16	1-1/8 x 7	16	1-1/4 x 8-1/4
14	12	1 x 5-1/2	20	1-1/2 x 7-1/4	20	1-1/4 x 8-1/2
16	16	1 x 5-1/2	20	1-1/4 x 7-3/4	20	1-3/8 x 9
18	16	1-1/8 x 6	24	1-1/4 x 8	24	1-3/8 x 9-1/4
20	20	1-1/8 x 6-1/2	24	1-1/4 x 8-1/4	24	1-1/2 x 9-3/4
24	20	1-1/4 x 7	24	1-1/2 x 9-1/4	24	1-3/4 x 10-3/4

Pipe Size	600 Lb. Forged Steel Flanges		900 Lb. Forged Steel Flanges		1500 Lb. Forged Steel Flanges		2500 Lb. Forged Steel Flanges	
	No.	Stud-Bolts Dia. x Length	No.	Stud-Bolts Dia. x Length	No.	Stud-Bolts Dia. x Length	No.	Stud-Bolts Dia. x Length
1/2	4	1/2 x 3-1/4	4	3/4 x 4-1/2	4	3/4 x 4-1/2	4	3/4 x 5
3/4	4	5/8 x 3-3/4	4	3/4 x 4-3/4	4	3/4 x 4-3/4	4	3/4 x 5-1/4
1	4	5/8 x 3-3/4	4	7/8 x 5-1/4	4	7/8 x 5-1/4	4	7/8 x 5-3/4
1-1/4	4	5/8 x 4	4	7/8 x 5-1/4	4	7/8 x 5-1/4	4	1 x 6-1/4
1-1/2	4	3/4 x 4-1/2	4	1 x 5-3/4	4	1 x 5-3/4	4	1-1/8 x 7
2	8	5/8 x 4-1/2	8	7/8 x 6	8	7/8 x 6	8	1 x 7-1/4
2-1/2	8	3/4 x 5	8	1 x 6-1/2	8	1 x 6-1/2	8	1-1/8 x 8
3	8	3/4 x 5-1/4	8	7/8 x 6	8	1-1/8 x 7-1/4	8	1-1/4 x 9
2-1/2	8	7/8 x 5-3/4	-	-	-	-	-	-
4	8	7/8 x 6	8	1-1/8 x 7	8	1-1/4 x 8	8	1-1/2 X 10-1/4
5	8	1 x 6-3/4	8	1-1/4 x 7-3/4	8	1-1/2 x 10	8	1-3/4 X 12
6	12	1 x 7	12	1-1/8 x 7-3/4	12	1-3/8 x 10-1/2	8	2 X 14
8	12	1-1/8 x 7-3/4	12	1-3/8 x 9	12	1-5/8 x 11-3/4	12	2 X 15-1/2
10	16	1-1/4 x 8-3/4	16	1-3/8 x 9-1/2	12	1-7/8 x 13-1/2	12	2-1/2 X 19-1/2
12	20	1-1/4 x 9	20	1-3/8 x 10-1/4	16	2 x 15	12	2-3/4 x 21-1/2
14	20	1-3/8 x 9-1/2	20	1-1/2 x 11	16	2-1/4 x 16-1/2	-	-
16	20	1-1/2 x 10-1/4	20	1-5/8 x 11-1/2	16	2-1/2 x 18	-	-
18	20	1-5/8 x 11	20	1-7/8 x 13	16	2-3/4 x 19-1/2	-	-
20	24	1-5/8 x 11-1/2	20	2 x 14	16	3 x 21-1/2	-	-
24	24	1-7/8 x 13	20	2-1/2 x 17-1/2	16	3-1/2 x 24-1/2	-	-

NOTE: This chart lists overall lengths of studs.

Sé Habla Español

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# 150 Lb. Flange Kits

(Bolt w/Nut)

SIZE	PCS	BOLT SIZE
2"	4	5/8 X 2 1/2
3"	4	5/8 X 3
4"	8	5/8 X 3
5"	8	3/4 X 3
6"	8	3/4 X 3 1/4
6"-8"	8	3/4 X 3 1/4
8"	8	3/4 X 3 1/2
10"	12	7/8 X 3 3/4
10"-12"	12	7/8 X 3 3/4
12"	12	7/8 X 4
14"	12	1 X 4 1/2
16"	16	1 X 4 1/2
18"	16	1 1/8 X 5
20"	20	1 1/8 X 5
24"	20	1 1/4 X 5 1/2
30"	28	1 1/4 X 6
36"	32	1 1/2 X 7
42"	36	1 1/2 X 7 1/2

**NOTE: FOR REFERENCE ONLY, SIZES MAY VARY WITH NON-STANDARD FLANGES**

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# AWWA Standard Steel-Hub Flanges, Class E\* (275 psi)

**NEW:**

**Table 4 Class E  
(C-207-94)**

Nominal Pipe Size in.	OD of Flange in.	ID of Flange in.	Thickness of Flange in.	Overall Thickness in.	Diameter of Hub	Drilling Template		
						Number of Bolt Holes	Diameter of Bolt Holes in.	Diameter of Bolt Circle in.
4	9.00	4.57	0.938	1.312	5.312	8	0.750	7.50
5	10.00	5.66	0.938	1.438	6.438	8	0.875	8.50
6	11.00	6.72	1.000	1.562	7.562	8	0.875	9.50
8	13.50	8.72	1.125	1.750	9.688	8	0.875	11.75
10	16.00	10.88	1.188	1.938	12.000	12	1.000	14.25
12	19.00	12.88	1.250	2.188	14.375	12	1.000	17.00
14	21.00	14.19	1.375	2.250	15.750	12	1.125	18.75
16	23.50	16.19	1.438	2.500	18.000	16	1.125	21.25
18	25.00	18.19	1.562	2.688	19.875	16	1.250	22.75
20	27.50	20.19	1.688	2.875	22.000	20	1.250	25.00
22	29.50	22.19	1.812	3.125	24.000	20	1.375	27.25
24	32.00	24.19	1.875	3.250	26.125	20	1.375	29.50
26	34.25	26.19	2.000	3.375	28.500	24	1.375	31.75
28	36.50	28.19	2.062	3.438	30.750	28	1.375	34.00
30	38.75	30.19	2.125	3.500	32.750	28	1.375	36.00
32	41.75	32.19	2.250	3.625	35.000	28	1.625	38.50
34	43.75	34.19	2.312	3.688	37.000	32	1.625	40.50
36	46.00	36.19	2.375	3.750	39.250	32	1.625	42.75
38	48.75	38.19	2.375	3.750	41.750	32	1.625	45.25
40	50.75	40.19	2.500	3.875	43.750	36	1.625	47.25
42	53.00	42.19	2.625	4.000	46.000	36	1.625	49.50
44	55.25	44.19	2.625	4.000	48.000	40	1.625	51.75
46	57.25	46.19	2.688	4.062	50.000	40	1.625	53.75
48	59.50	48.19	2.750	4.125	52.250	44	1.625	56.00
50	61.75	50.19	2.750	4.125	54.250	44	1.875	58.25
52	64.00	52.19	2.875	4.250	56.500	44	1.875	60.50
54	66.25	54.19	3.000	4.375	58.750	44	1.875	62.75
60	73.00	60.19	3.125	4.500	65.250	52	1.875	69.25
66	80.00	66.19	3.375	4.875	71.500	52	1.875	76.00
72	86.50	72.19	3.500	5.000	78.500	60	1.875	82.50
78	93.00	78.19	3.875	5.375	84.500	64	2.125	89.00
84	99.75	84.19	3.875	5.375	90.500	64	2.125	95.50
90	106.50	90.19	4.250	5.750	96.750	68	2.438	102.00
96	113.25	96.19	4.250	5.750	102.750	68	2.438	108.50

**NOTES:**

1. Hub flanges are to be used on pipe that has an OD equal to the nominal pipe size in the first column.

\* Pressure rating at atmospheric temperature is 275 psi. These flanges have the same diameter and drilling as ANSI/ASME B16.1 class 125 cast iron flanges. In sizes 24 in. and smaller they also match ANSI/ASME B16.5 150 psi standard for steel flanges.

§ The thickness of a 150 psi flange from which the raised face has been removed shall be no less than dimension T minus 0.06 in.

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# 300 Lb. Flange Kits

(Bolt w/Nut)

SIZE	PCS	BOLT SIZE
4"	8	3/4 x 3-1/2
5"	8	3/4 x 4
6"	12	3/4 x 4-1/2
8"	12	7/8 x 4-1/2
10"	16	1 x 5
12"	16	1-1/8 x 5-1/2
14"	20	1-1/8 x 6
16"	20	1-1/4 x 6-1/2
18"	24	1-1/4 x 6-1/2
20"	24	1-1/4 x 7
24"	24	1-1/2 x 8
30"	28	1-3/4 x 9
36"	32	2 x 10
42"	36	2 x 10-1/2

**NOTE: FOR REFERENCE ONLY, SIZES MAY VARY WITH NON-STANDARD FLANGES**

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## AWWA Standard Steel-Ring Flanges, Class F\* (300 psi)

**NEW:**

**Table 6 Class F  
(C-207-94)**

Nominal Pipe Size in.	OD of Flange in.	ID of Flange in.	Thickness of Flange in.	Drilling Template		
				Number of Bolt Holes	Diameter of Bolt Holes in.	Diameter of Bolt Circle in.
4	10.00	4.57	1.13	8	0.875	7.88
5	11.00	5.66	1.21**	8	0.875	9.25
6	12.50	6.73	1.31**	12	0.875	10.62
8	15.00	8.73	1.31**	12	1.000	13.00
10	17.50	10.88	1.50**	16	1.125	15.25
12	20.50	12.88	1.63**	16	1.250	17.75
14	23.00	14.19	1.94	20	1.250	20.25
16	25.50	16.19	2.14**	20	1.375	22.50
18	28.00	18.19	2.25**	24	1.375	24.75
20	30.50	20.19	2.33**	24	1.375	27.00
22	33.00	22.19	2.50	24	1.375	29.25
24	36.00	24.19	2.69	24	1.625	32.00
26	38.25	26.25	3.00	28	1.875	34.50
28	40.75	28.25	3.13	28	1.875	37.00
30	48.00	30.25	3.15**	28	1.875	39.25
32	45.25	32.25	3.25	28	1.875	41.50
34	47.50	34.25	3.38	28	1.875	43.50
36	50.00	36.25	3.46**	32	2.125	46.00
38	52.25	38.25	3.50	32	2.125	48.00
40	54.25	40.25	3.63	36	2.125	50.25
42	57.00	42.25	3.81**	36	2.125	52.75
44	59.25	44.25	4.00	36	2.125	55.00
46	61.50	46.25	4.13	40	2.125	57.25
48	65.00	48.25	4.50**	40	2.125	60.75

**NOTES:**

\* Pressure rating at atmospheric temperature is 300 psi. These flanges have the same diameter and drilling as ANSI/ASME B16.2 class 250 cast iron flanges.

\*\* Denotes dimension change.

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# Pipe Schedules (Sizes)

Nominal	O.D. Inches	PIPE SCHEDULES WALL THICKNESS															
		5s	5	10s	10	20	30	40s & E.H.	40	60	80s & E.H.	80	100	120	140	160	Dbl. E.H.
1/8	.405		.035	.049	.049			.068	.068		.095	.095					
1/4	.540		.049	.065	.065			.088	.088		.119	.119					
3/8	.675		.049	.065	.065			.091	.091		.126	.126					
1/2	.840	.065	.065	.083	.083			.109	.109		.147	.147				.187	.294
3/4	1.050	.065	.065	.083	.083			.113	.113		.154	.154				.218	.308
1	1.315	.065	.065	.109	.109			.133	.133		.179	.179				.250	.358
1-1/4	1.660	.065	.065	.109	.109			.140	.140		.191	.191				.250	.382
1-1/2	1.900	.065	.065	.109	.109			.145	.145		.200	.200				.281	.400
2	2.375	.065	.065	.109	.109			.154	.154		.218	.218				.343	.436
2-1/2	2.875	.083	.083	.120	.120			.203	.203		.276	.276				.375	.552
3	3.5	.083	.083	.120	.120			.216	.216		.300	.300				.437	.600
3-1/2	4.000	.083	.083	.120	.120			.226	.226		.318	.318					.636
4	4.500	.083	.083	.120	.120			.237	.237	.281	.337	.337		.437		.531	.674
4-1/2	5.000							.247			.355						.710
5	5.563	.109	.109	.134	.134			.258	.258		.375	.375		.500		.625	.750
6	6.625	.109	.109	.134	.134			.280	.280		.432	.432		.562		.718	.864
7	7.625							.301			.500						.875
8	8.625	.109	.109	.148	.148	.250	.277	.322	.322	.406	.500	.500	.593	.718	.812	.906	.875
9	9.625							.342			.500						
10	10.750	.134	.134	.165	.165	.250	.307	.365	.365	.500	.500	.593	.718	.843	1.000	1.125	
11	11.750							.375			.500						
12	12.750	.156	.165	.180	.180	.250	.330	.375	.406	.562	.500	.687	.843	1.000	1.125	1.312	
14	14.000	.156		.188	.250	.312	.375	.375	.437	.593	.500	.750	.937	1.093	1.250	1.406	
16	16.000	.165		.188	.250	.312	.375	.375	.500	.656	.500	.843	1.031	1.218	1.437	1.593	
18	18.000	.165		.188	.250	.312	.437	.375	.562	.750	.500	.937	1.156	1.375	1.562	1.781	
20	20.000	.188		.218	.250	.375	.500	.375	.593	.812	.500	1.031	1.280	1.500	1.750	1.968	
24	24.000	.218		.250	.250	.375	.562	.375	.687	.968	.500	1.218	1.531	1.812	2.062	2.343	
26	26.000				.312	.500		.375			.500						
28	28.000				.312	.500	.625	.375									
30	30.000	.250		.312	.312	.500	.625	.375			.500						
32	32.000				.312	.500	.625	.375	.688		.500						
34	34.000				.312	.500	.625	.375	.688								
36	36.000				.312		.625	.375	.750		.500						

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