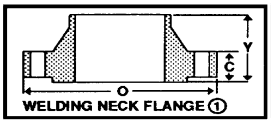
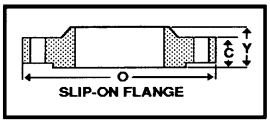
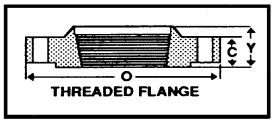
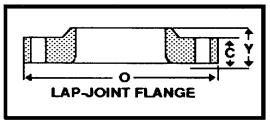
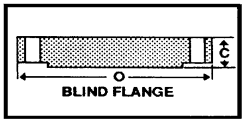
FLANGE SPECIFICATIONS









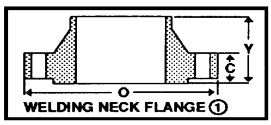


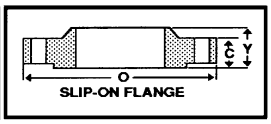
Pipe Size	150 LB. FLANGES							300 LB. FLANGES						
	O	C	Y (1*)			BOLT CIRCLE	NO. AND SIZE OF HOLES	O	C	Y (1*)			BOLT CIRCLE	NO. AND SIZE OF HOLES
			WELD NECK	SLIP ON THRD.	LAP JOINT					WELD NECK	SLIP ON THRD.	LAP JOINT		
1/2	3-1/2	7/16	1-7/8	5/8	5/8	2-3/8	(4) 5/8	3 3/4	9 1/6	2 1/16	7/8	7/8	2-5/8	(4) 5/8
3/4	3-7/8	1/2	2-1/16	5/8	5/8	2-3/4	(4) 5/8	4-5/8	5/8	2-1/4	1	1	3-1/4	(4) 3/4
1	4-1/4	9/16	2-3/16	11/16	11/16	3-1/8	(4) 5/8	4-7/8	11/16	2-7/16	1-1/16	1-1/16	3-1/2	(4) 3/4
1 1/4	4-5/8	5/8	2-1/4	13/16	13/16	3-1/2	(4) 5/8	5-1/2	3/4	2-9/16	1-1/16	1-1/16	3-7/8	(4) 3/4
1 1/2	5	11/16	2-7/16	7/8	7/8	3-7/8	(4) 5/8	6-1/8	13/16	2-11/16	1-3/16	1-3/16	4-1/2	(4) 7/8
2	6	3/4	2-1/2	1	1	4-3/4	(4) 3/4	6-1/2	7/8	2-3/4	1-5/16	1-5/16	5	(8) 3/4
2 1/2	7	7/8	2-3/4	1-1/8	1-1/8	5-1/2	(4) 3/4	7-1/2	1	3	1-1/2	1-1/2	5-7/8	(8) 7/8
3	7-1/2	15/16	2-3/4	1-3/16	1-3/16	6	(4) 3/4	8-1/4	1-1/8	3-1/8	1-11/16	1-11/16	6-5/8	(8) 7/8
3 1/2	8-1/2	15/16	2-13/16	1-1/4	1-1/4	7	(8) 3/4	9	1-3/16	3-3/16	1-3/4	1-3/4	7-1/4	(8) 7/8
4	9	15/16	3	1-5/16	1-5/16	7-1/2	(8) 3/4	10	1-1/4	3-3/8	1-7/8	1-7/8	7-7/8	(8) 7/8
5	10	15/16	3-1/2	1-7/1	1-7/16	8-1/2	(8) 7/8	11	1-3/8	3-7/8	2	2	9-1/4	(8) 7/8
6	11	1	3-1/2	1-9/16	1-9/16	9-1/2	(8) 7/8	12-1/2	1-7/16	3-7/8	2-1/16	2-1/16	10-5/8	(12) 7/8
8	13-1/2	1-1/8	4	1-3/4	1-3/4	11-3/4	(8) 7/8	15	1-5/8	4-38	2-7/16	2-7/16	13	(12) 1
10	16	1-3/16	4	1-15/16	1-15/16	14-1/4	(12) 1	17-1/2	1-7/8	4-5/8	2-5/8	3-3/4	15-1/4	(16)1-1/8
12	19	1-1/4	4-1/2	2-3/16	2- 3/16	17	(12) 1	20-1/2	2	5-1/8	2-7/8	4	17-3/4	(16)1-1/4
14	21	1-3/8	5	2-1/4	3-1/8	18-3/4	(12)1-1/8	23	2-1/8	5-5/8	3	4-3/8	20-1/4	(20) 1-1/4
16	23-1/2	1-7/16	5	1 /12	3- 7/16	21-1/4	(16)1-1/8	25-1/2	2-1/4	5-3/4	3-1/4	4-3/4	22-1/2	(20) 1-3/8
18	25	1-9/16	5-1/2	2 11/16	3-13/16	22-3/4	(16)1-1/4	28	2-3/8	6-1/4	3-1/2	5-1/8	24-3/4	(24) 1-3/8
20	27-1/2	1-11/16	5-11/16	2 7/8	4-1/16	25	(20)1-1/4	30-1/2	2-1/2	6-3/8	3-3/4	5-1/2	27	(24) 1-3/8
24	32	1-7/8	6	3 1/4	4-3/8	29-1/2	(20)1-3/8	36	2-3/4	6-5/8	4-3/16	6	32	(24) 1-5/8
30	38-3/4	2-1/8	5-1/8	3 1/2	…	36	(28)1-3/8	43	3-5/8	8-1/4	8-1/4	…	39-1/4	(28) 1-7/8
36	46	2-3/8	5-3/8	3 3/4	…	42-3/4	(32)1-5/8	50	4-1/8	9-1/2	9-1/2	…	46	(32) 2-1/8

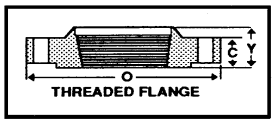
Pipe Size	600 LB. FLANGES							900 LB. FLANGES						
	O	C	Y (1*)			BOLT CIRCLE	NO. AND SIZE OF HOLES	O	C	Y (1*)			BOLT CIRCLE	NO. AND SIZE OF HOLES
			WELD NECK	SLIP ON THRD.	LAP JOINT					WELD NECK	SLIP ON THRD.	LAP JOINT		
1/2	3-3/4	9/16	2-1/16	7/8	7/8	2-5/8	(4) 5/8	4-3/4	7/8	2-3/8	1-1/4	1-1/4	3-1/4	(4) 7/8
3/4	4-5/8	5/8	2-1/4	1	1	3-1/4	(4) 3/4	5-1/8	1	2-3/4	1-3/8	1-3/8	3-1/2	(4) 7/8
1	4-7/8	11/16	2-7/16	1-1/16	1-1/16	3-1/2	(4) 3/4	5-7/8	1-1/8	2 7/8	1-5/8	1-5/8	4	(4) 1
1 1/4	5-1/4	13/16	2-5/8	1-1/8	1-1/8	3-7/8	(4) 3/4	6-1/4	1-1/8	2-7/8	1-5/8	1-5/8	4-3/8	(4) 1
1 1/2	6-1/8	7/8	2-3/4	1-1/4	1-1/4	4-1/2	(4) 7/8	7	1-1/4	3-1/4	1-3/4	1-3/4	4-7/8	(4) 1-1/8
2	6-1/2	1	2-7/8	1-7/16	1-7/16	5	(8) 3/4	8-1/2	1-1/2	4	2-1/4	2-1/4	6-1/2	(8) 1
2 1/2	7-1/2	1-1/8	3-1/8	1-5/8	1-5/8	5-7/8	(8) 7/8	9 5/8	1-5/8	4-1/8	2-1/2	2-1/2	7-1/2	(8) 1-1/8
3	8-1/4	1 1/4	3-1/4	1-13/16	1-13/16	6-5/8	(8) 7/8	9-1/2	1-1/2	4	2-1/8	2-1/8	7-1/2	(8) 1
4	10-3/4	1-1/2	4	2-1/8	2-1/8	8-1/2	(8) 1	11-1/2	1-3/4	4-1/2	2-3/4	2-3/4	9-1/4	(8) 1-1/4
5	13	1-3/4	4-1/2	2-3/8	2-3/8	10-1/2	(8) 1-1/8	13-3/4	2	5	3-1/8	3-1/8	11	(8) 1-3/8
6	14	1-7/8	4-5/8	2-5/8	2-5/8	11-1/2	(12) 1-1/8	15	2-3/16	5-1/2	3-3/8	3-3/8	12-1/2	(12) 1-1/4
8	16-1/2	2-3/16	5-1/4	3	3	13-3/4	(12) 1-1/4	18-1/2	2-1/2	6-3/8	4	4-1/2	15-1/2	(12) 1-1/2
10	20	2-1/2	6	3-3/8	4-3/8	17	(16) 1-3/8	21-1/2	2-3/4	7-1/4	4-1/4	5	18-1/2	(16) 1-1/2
12	22	2-5/8	6-1/8	3-5/8	4-5/8	19-1/4	(20) 1-3/8	24	3-1/8	7-7/8	4-5/8	5-5/8	21	(20) 1-1/2
14	23-3/4	2-3/4	6-1/2	3-11/16	5	20-3/4	(20) 1-1/2	25-1/4	3-3/8	8-3/8	5-1/8	6-1/8	22	(20) 1-5/8
16	27	3	7	4-3/16	5-1/2	23-3/4	(20) 1-5/8	27-3/4	3-1/2	8-1/2	5-1/4	6-1/2	24-1/4	(20) 1-3/4
18	29-1/4	3-1/4	7-1/4	4-5/8	6	25-3/4	(20) 1-3/4	31	4	9	6	7-1/2	27	(20) 2
20	32	3-1/2	7-1/2	5	6-1/2	28-1/2	(24) 1-3/4	33-3/4	4-1/4	9-3/4	6-1/4	8-1/4	29-1/2	(20) 2-1/8
24	37	4	8	5-1/2	7-1/4	33	(24) 2	41	5-1/2	11-1/2	8	10-1/2	35-1/2	(20) 2-5/8
30	44-1/2	4-1/2	9-3/4	9-3/4	…	40-1/4	(28) 2-1/8	48-1/2	5-7/8	12-1/4	12-1/4	…	42-3/4	(20) 3-1/8
36	51-3/4	4-7/8	11-1/8	11-1/8	…	47	(28) 2-5/8	57-1/2	6-3/4	14-1/4	14-1/4	…	50-3/4	(20) 3-5/8

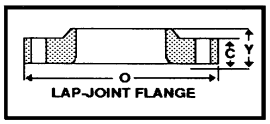
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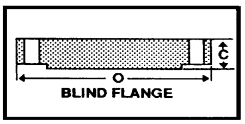
FLANGE SPECIFICATIONS











1500 LB. FLANGES							
Pipe Size	O	C	Y (1*)			BOLT CIRCLE	NO. AND SIZE OF HOLES
			WELD NECK	SLIP ON THRD.	LAP JOINT		
1/2	4-3/4	7/8	2-3/8	1-1/4	3-1/4	1/2	(4) 7/8
3/4	5-1/8	1	2-3/4	1-3/8	3-1/2	3/4	(4) 7/8
1	5-7/8	1-1/8	2-7/8	1-5/8	4	1	(4) 1
1-1/4	6-1/4	1-1/8	2-7/8	1-5/8	4-3/8	1-1/4	(4) 1
1-1/2	7	1-1/4	3-1/4	1-3/4	4-7/8	1-1/2	(4) 1-1/8
2	8-1/2	1-1/2	4	2-1/4	6-1/2	2	(8) 1
2-1/2	9-5/8	1-5/8	4-1/8	2-1/2	7-1/2	2-1/2	(8) 1-1/8
3	10-1/2	1-7/8	4 -5/8	2-7/8	8	3	(8) 1-1/4
4	12-1/4	2-1/8	4-7/8	3-9/16	9-1/2	4	(8) 1-3/8
5	14-3/4	2-7/8	6-1/8	4-1/8	11-1/2	5	(8) 1-5/8
6	15-1/2	3-1/4	6-3/4	4-11/16	12-1/2	6	(12) 1-1/2
8	19	3-5/8	8-3/8	5-5/8	15-1/2	8	(12) 1-3/4
10	23	4-1/4	10	6-1/4	19	10	(12) 2
12	26-1/2	4-7/8	11-1/8	7-1/8	22-1/2	12	(16) 2-1/8
14	29-1/2	5-1/4	11-3/4	…	25	14	(16) 2-3/8
16	32-1/2	5-3/4	12-1/4	…	27-3/4	16	(16) 2-5/8
18	36	6-3/8	12-7/8	…	30-1/2	18	(16) 2-7/8
20	38-3/4	7	14	…	32-3/4	20	(16) 3-1/8
24	46	8	16	…	39	24	(16) 3-5/8

Notes:

1) Includes 1/16” raised face in 150 lb. and 300 lb. standards. Does not include ¼” raised face in heavier standards.
2) Always specify bore when ordering
3) Inside pipe dimensions are also provided in this table.
4) Other types, sizes, and facings on application.

WELDING NECK FLANGES BORES (2 , 3*)														
Pipe Size	PIPE O.D.	LIGHT WALL (6)	SCH 20	SCH 30	STD WALL	SCH 40	SCH 60	EXTRA STRONG	SCH 80	SCH 100	SCH 120	SCH 140	SCH 160	DOUBLE EXTRA STRONG
1/2	0.840	0.674	…	…	0.622	0.622	…	0.546	0.546	…	…	…	0.464	0.252
3/4	1.050	0.884	…	…	0.824	0.824	…	0.742	0.742	…	…	…	0.612	0.434
1	1.315	1.097	…	…	1.049	1.049	…	0.957	0.957	…	…	…	0.815	0.599
1-1/4	1.660	1.442	…	…	1.38	1.380	…	1.278	1.278	…	…	…	1.160	0.896
1-1/2	1.900	1.682	…	…	1.61	1.610	…	1.500	1.500	…	…	…	1.338	1.100
2	2.375	2.157	…	…	2.067	2.067	…	1.939	1.939	…	…	…	1.687	1.503
2-1/2	2.875	2.635	…	…	2.469	2.469	…	2.323	2.323	…	…	…	2.125	1.771
3	3.500	3.260	…	…	3.068	3.068	…	2.900	2.900	…	…	…	2.624	2.300
3-1/2	4.000	3.760	…	…	3.548	3.548	…	3.364	3.364	…	…	…	…	2.728
4	4.500	4.260	…	…	4.026	4.026	…	3.826	3.826	…	3.624	…	4.438	3.152
5	5.563	5.295	…	…	5.047	5.047	…	4.813	4.813	…	4.563	…	4.313	4.063
6	6.625	6.357	…	…	6.065	6.065	…	5.761	5.761	…	5.501	…	5.187	4.897
8	8.625	8.329	8.125	8.071	7.981	7.981	7.813	7.625	7.625	7.437	7.187	7.001	6.813	6.875
10	10.750	10.420	10.250	10.136	10.02	10.020	9.750	9.750	9.562	9.312	9.062	8.750	8.500	8.750
12	12.750	12.390	12.250	12.09	12	11.938	11.626	11.750	11.374	11.062	10.750	10.500	10.126	10.750
14	14.000	13.500	13.376	13.25	13.25	13.124	12.812	13.000	12.500	12.124	11.814	11.500	11.188	…
16	16.000	15.500	15.376	15.25	15.25	15.000	14.688	15.000	14.312	13.938	13.564	13.124	12.812	…
18	18.000	17.50	17.376	17.124	17.25	16.876	16.500	17.000	16.124	15.688	15.250	14.876	14.438	…
20	20.000	19.500	19.250	19	19.25	18.812	18.376	19.000	17.938	17.438	17.000	16.500	16.062	…
24	24.000	23.50	23.250	22.876	23.25	22.624	22.062	23.000	21.562	20.938	20.376	19.876	19.312	…
30	30.000	29.376	29.000	28.75	29.25	…	…	29.000	…	..	…	…	…	…
36	36.000	35.376	35.000	34.750	35.250	34.500	…	35.000	…	…	…	…	…	…
42	42.000	…	…	…	41.25	…	…	41.000	…	…	…	…	…	…

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