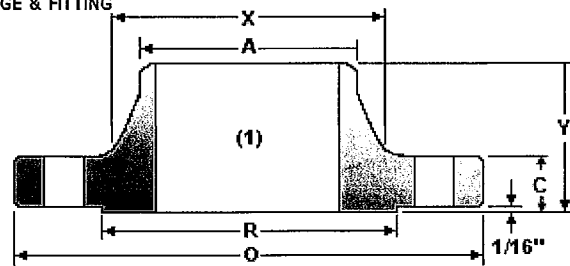




ASME B16.5 FLANGES
CLASS 150 - WELDING NECK

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WELDING NECK

Nominal size	Outside diam. of flange	Thick. of flange	Diam. of raised face	Diam. of hub at base	Diam. Of hub at point of welding	Lenth thru hub	No. of holes	Diam. of holes	Diam. of bolts	Diam. of bolt circle	Approx. weight pounds / Kg
	O	C	R	X	A	V					
1/2" in.	3.5	0.44	1.38	1.19	0.84	1.88	4	0.62	1/2	2.38	2
mm.	88.9	11.2	35.1	30.2	21.3	47.8		15.7	12.7	60.5	1
3/4" in.	3.88	0.5	1.69	1.5	1.05	2.06	4	0.62	1/2	2.75	2
mm.	98.6	12.7	42.9	38.1	26.7	52.3		15.7	12.7	69.9	1
1" in.	4.25	0.56	2	1.94	1.32	2.19	4	0.62	1/2	3.12	3
mm.	108	14.2	50.8	49.3	33.5	55.6		15.7	12.7	79.2	1
1 1/4" in.	4.62	0.62	2.5	2.31	1.66	2.25	4	0.62	1/2	3.5	3
mm.	117.3	15.7	63.5	58.7	42.2	57.2		15.7	12.7	88.9	1
1 1/2" in.	5	0.69	2.88	2.56	1.9	2.44	4	0.62	1/2	3.88	4
mm.	127	17.5	73.2	65	48.3	62		15.7	12.7	98.6	2
2" in.	6	0.75	3.62	3.06	2.38	2.5	4	0.75	5/8	4.75	6
mm.	152.4	19.1	91.9	77.7	60.5	63.5		19.1	15.9	120.7	3
2 1/2" in.	7	0.88	4.12	3.56	2.88	2.75	4	0.75	5/8	5.5	8
mm.	177.8	22.4	104.6	90.4	73.2	69.9		19.1	15.9	139.7	4
3" in.	7.5	0.94	5	4.25	3.5	2.75	4	0.75	5/8	6	10
mm.	190.5	23.9	127	108	88.9	69.9		19.1	15.9	152.4	5
3 1/2" in.	8.5	0.94	5.5	4.81	4	2.81	8	0.75	5/8	7	12
mm.	215.9	23.9	139.7	122.2	101.6	71.4		19.1	15.9	177.8	5
4" in.	9	0.94	6.19	5.31	4.5	3	8	0.75	5/8	7.5	15
mm.	228.6	23.9	157.2	134.9	114.3	76.2		19.1	15.9	190.5	7
5" in.	10	0.94	7.31	6.44	5.56	3.5	8	0.88	3/4	8.5	19
mm.	254	23.9	185.7	163.6	141.2	88.9		22.4	19.1	215.9	9
6" in.	11	1	8.5	7.56	6.63	3.5	8	0.88	3/4	9.5	24
mm.	279.4	25.4	215.9	192	168.4	88.9		22.4	19.1	241.3	11
8" in.	13.5	1.12	10.62	9.69	8.63	4	8	0.88	3/4	11.75	39
mm.	342.9	28.4	269.7	246.1	219.2	101.6		22.4	19.1	298.5	18
10" in.	16	1.19	12.75	12	10.75	4	12	1	7/8	14.25	52
mm.	406.4	30.2	323.9	304.8	273.1	101.6		25.4	22.2	362	24
12" in.	19	1.25	15	14.38	12.75	4.5	12	1	7/8	17	80
mm.	482.6	31.8	381	365.3	323.9	114.3		25.4	22.2	431.8	36
14" in.	21	1.38	16.25	15.75	14	5	12	1.12	1	18.75	110
mm.	533.4	35.1	412.8	400.1	355.6	127		28.4	25.4	476.3	50
16" in.	23.5	1.44	18.5	18	16	5	16	1.12	1	21.25	140
mm.	596.9	36.6	469.9	457.2	406.4	127		28.4	25.4	539.8	64
18" in.	25	1.56	21	19.88	18	5.5	16	1.25	1 1/8	22.75	150
mm.	635	39.6	533.4	505	457.2	139.7		31.8	28.6	577.9	68
20" in.	27.5	1.69	23	22	20	5.69	20	1.25	1 1/8	25	180
mm.	698.5	42.9	584.2	558.8	508	144.5		31.8	28.6	635	82
24" in.	32	1.88	27.25	26.12	24	6	20	1.38	1 1/4	29.5	260
mm.	812.8	47.8	692.2	663.4	609.6	152.4		35.1	31.8	749.3	118



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Nom. Pipe Size	Outside Diameter	WELDING NECK FLANGE BORES ^{1,3}												Double Extra Strong
		Light Wall ⁵	Sched. 20	Sched. 30	Std Wall	Sched. 40	Sched. 60	Extra Strong	Sched. 80	Sched. 100	Sched. 120	Sched. 140	Sched. 160	
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	1.422	---	---	1.380	1.380	---	1.278	1.278	---	---	---	1.160	0.896
1 1/2	1.900	1.682	---	---	1.610	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	---	3.438	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	10.020	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	12.090	12.000	11.938	11.625	11.750	11.374	11.062	10.750	10.500	10.126	10.750
14	14.000	13.500	13.376	13.250	13.250	13.124	12.812	13.000	12.500	12.124	11.814	11.500	11.188	---
16	16.000	15.500	15.376	15.250	15.250	15.000	14.688	15.000	14.312	13.938	13.564	13.124	12.812	---
18	18.000	17.500	17.376	17.124	17.250	16.876	16.500	17.000	16.124	15.688	15.250	14.876	14.438	---
20	20.000	19.500	19.250	19.000	19.250	18.812	18.376	19.000	17.938	17.438	17.000	16.500	16.062	---
24	24.000	23.500	23.250	22.876	23.250	22.624	22.062	23.000	21.562	20.938	20.376	19.876	19.312	---
30	30.000	29.376	29.000	28.750	29.250	---	---	29.000	---	---	---	---	---	---
36	36.000	35.376	35.000	34.750	35.250	34.500	---	35.000	---	---	---	---	---	---
42	42.000	---	---	---	41.250	---	---	41.000	---	---	---	---	---	---
48	48.000	---	---	---	47.250	---	---	47.000	---	---	---	---	---	---

NOTES:

- ¹ Always specify bore when ordering
³ Inside Pipe diameters are also provided by this table
⁵ Light Wall diameters are identical to stainless steel Schedule 10S in sizes thru 12", and to Schedule 10 in sizes 14" and larger

Nom. Pipe Size	Nom. Pipe O.D.	NOMINAL WALL THICKNESS													Nom. Pipe Size
		Light ¹	Sch. 20	Sch. 30	Std ²	Sch. 40	Sch. 60	XH ³	Sch. 80	Sch. 100	Sch. 120	Sch. 140	Sch. 160	XXH	
1/2	0.840	.083	---	---	.109	.109	---	.147	.147	---	---	---	.188	.294	1/2
3/4	1.050	.083	---	---	.113	.113	---	.154	.154	---	---	---	.219	.308	3/4
1	1.315	.109	---	---	.133	.133	---	.179	.179	---	---	---	.250	.358	1
1 1/4	1.660	.109	---	---	.140	.140	---	.191	.191	---	---	---	.250	.382	1 1/4
1 1/2	1.900	.109	---	---	.145	.145	---	.200	.200	---	---	---	.281	.400	1 1/2
2	2.375	.109	---	---	.154	.154	---	.218	.218	---	---	---	.344	.436	2
2 1/2	2.875	.120	---	---	.203	.203	---	.276	.276	---	---	---	.375	.552	2 1/2
3	3.500	.120	---	---	.216	.216	---	.300	.300	---	---	---	.438	.600	3
3 1/2	4.000	.120	---	---	.226	.226	---	.318	.318	---	---	---	---	.636	3 1/2
4	4.500	.120	---	---	.237	.237	---	.337	.337	---	.438	---	.531	.674	4
5	5.563	.134	---	---	.258	.258	---	.375	.375	---	.500	---	.625	.750	5
6	6.625	.134	---	---	.280	.280	---	.432	.432	---	.562	---	.719	.864	6
8	8.625	.148	.250	.277	.322	.322	.406	.500	.500	.594	.719	.812	.906	.875	8
10	10.750	.165	.250	.307	.365	.365	.500	.500	.594	.719	.844	1.000	1.125	1.000	10
12	12.750	.180	.250	.330	.375	.406	.562	.500	.688	.844	1.000	1.125	1.312	1.000	12
14	14.000	.250	.312	.375	.375	.438	.594	.500	.750	.938	1.094	1.250	1.406	---	14
16	16.000	.250	.312	.375	.375	.500	.656	.500	.844	1.031	1.219	1.438	1.594	---	16
18	18.000	.250	.312	.438	.375	.562	.750	.500	.938	1.156	1.375	1.562	1.781	---	18
20	20.000	.250	.375	.500	.375	.594	.812	.500	1.031	1.031	1.500	1.750	1.969	---	20
24	24.000	.250	.375	.562	.375	.688	.969	.500	1.219	1.531	1.812	2.062	2.344	---	24
30	30.000	.312	.500	.625	.375	---	---	.500	---	---	---	---	---	---	30
36	36.000	.312	.500	.625	.375	.750	---	.500	---	---	---	---	---	---	36
42	42.000	---	---	---	.375	---	---	.500	---	---	---	---	---	---	42
48	48.000	---	---	---	.375	---	---	.500	---	---	---	---	---	---	48

NOTES:

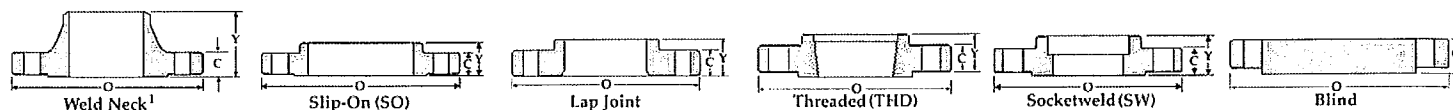
- ¹ Light Wall thicknesses are identical to stainless steel Schedule 10S in sizes thru 12", and to Schedule 10 in sizes 14" and larger
² Standard Wall thicknesses are identical to stainless steel Schedule 40S in sizes thru 12"
³ Extra Strong Wall thicknesses are identical to stainless steel Schedule 80S in sizes thru 12"

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Nom Pipe Size	CLASS 150 FLANGES							CLASS 300 FLANGES							CLASS 400 FLANGES						
	O	C ²	Length Through Hub ² Y					O	C ¹	Length Through Hub ² Y					O	C ¹	Length Through Hub ² Y				
			Weld Neck	SO,SW, THD	Lap Joint	Bolt Circle	No. and size of Holes			Weld Neck	SO,SW, THD	Lap Joint	Bolt Circle	No. and size of Holes			Weld Neck	SO,SW, THD	Lap Joint	Bolt Circle	No. and size of Holes
1/2	3.50	.44	1.88	.62	.62	2.38	4-0.62	3.75	.56	2.06	.88	.88	2.62	4-0.62	3.75	.56	2.06	.88	.88	2.62	4-0.62
3/4	3.88	.50	2.06	.62	.62	2.75	4-0.62	4.62	.62	2.25	1.00	1.00	3.25	4-0.75	4.62	.62	2.25	1.00	1.00	3.25	4-0.75
1	4.25	.56	2.19	.69	.69	3.12	4-0.62	4.88	.69	2.44	1.06	1.06	3.50	4-0.75	4.88	.69	2.44	1.06	1.06	3.50	4-0.75
1 1/4	4.62	.62	2.25	.81	.81	3.50	4-0.62	5.25	.75	2.56	1.06	1.06	3.88	4-0.75	5.25	.81	2.62	1.12	1.12	3.88	4-0.75
1 1/2	5.00	.69	2.44	.88	.88	3.88	4-0.62	6.12	.81	2.69	1.19	1.19	4.50	4-0.88	6.12	.88	2.75	1.25	1.25	4.50	4-0.88
2	6.00	.75	2.50	1.00	1.00	4.75	4-0.75	6.50	.88	2.75	1.31	1.31	5.00	8-0.75	6.50	1.00	2.88	1.44	1.44	5.00	8-0.75
2 1/2	7.00	.88	2.75	1.12	1.12	5.50	4-0.75	7.50	1.00	3.00	1.50	1.50	5.88	8-0.88	7.50	1.12	3.12	1.62	1.62	5.88	8-0.88
3	7.50	.94	2.75	1.19	1.19	6.00	4-0.75	8.25	1.12	3.12	1.69	1.69	6.62	8-0.88	8.25	1.25	3.25	1.81	1.81	6.62	8-0.88
3 1/2	8.50	.94	2.81	1.25	1.25	7.00	8-0.75	9.00	1.19	3.19	1.75	1.75	7.25	8-0.88	9.00	1.38	3.38	1.94	1.94	7.25	8-1.00
4	9.00	.94	3.00	1.31	1.31	7.50	8-0.75	10.00	1.25	3.38	1.88	1.88	7.88	8-0.88	10.00	1.38	3.50	2.00	2.00	7.88	8-1.00
5	10.00	.94	3.50	1.44	1.44	8.50	8-0.88	11.00	1.38	3.88	2.00	2.00	9.25	8-0.88	11.00	1.50	4.00	2.12	2.12	9.25	8-1.00
6	11.00	1.00	3.50	1.56	1.56	9.50	8-0.88	12.50	1.44	3.88	2.06	2.06	10.62	12-0.88	12.50	1.62	4.06	2.25	2.25	10.62	12-1.00
8	13.50	1.12	4.00	1.75	1.75	11.75	8-0.88	15.00	1.62	4.38	2.44	2.44	13.00	12-1.00	15.00	1.88	4.62	2.69	2.69	13.00	12-1.12
10	16.00	1.19	4.00	1.94	1.94	14.25	12-1.00	17.50	1.88	4.62	2.62	2.62	15.25	16-1.12	17.50	2.12	4.88	2.88	2.88	15.25	16-1.25
12	19.00	1.25	4.50	2.19	2.19	17.00	12-1.00	20.50	2.00	5.12	2.88	2.88	17.75	16-1.25	20.50	2.25	5.38	3.12	3.12	17.75	16-1.38
14	21.00	1.38	5.00	2.25	2.25	18.75	12-1.12	23.00	2.12	5.62	3.00	3.00	20.25	20-1.25	23.00	2.38	5.88	3.31	3.31	20.25	20-1.38
16	23.50	1.44	5.00	2.50	2.50	21.25	16-1.12	25.50	2.25	5.75	3.25	3.25	22.50	20-1.38	25.50	2.50	6.00	3.69	3.69	22.50	20-1.50
18	25.00	1.56	5.50	2.69	2.69	22.75	16-1.25	28.00	2.38	6.25	3.50	3.50	24.75	24-1.38	28.00	2.62	6.50	3.88	3.88	24.75	24-1.50
20	27.50	1.69	5.69	2.88	2.88	25.00	20-1.25	30.50	2.50	6.38	3.75	3.75	27.00	24-1.38	30.50	2.75	6.62	4.00	4.00	27.00	24-1.62
24	32.00	1.88	6.00	3.25	3.25	29.50	20-1.38	36.00	2.75	6.62	4.19	4.19	32.00	24-1.62	36.00	3.00	6.88	4.50	4.50	32.00	24-1.88
30	38.75	2.94	5.38	---	---	36.00	28-1.38	43.00	3.62	8.25	---	---	39.25	28-1.88	43.00	4.00	8.62	---	---	39.25	28-2.12
36	46.00	3.56	6.19	---	---	42.75	32-1.62	50.00	4.12	9.50	---	---	46.00	32-2.12	50.00	4.50	9.88	---	---	46.00	32-2.12
42	53.00	3.81	6.75	---	---	49.50	36-1.62	50.75	4.69	7.88	---	---	47.50	32-1.75	52.00	5.25	8.81	---	---	48.25	32-2.00
48	59.50	4.25	7.56	---	---	56.00	44-1.62	57.75	5.25	8.81	---	---	54.00	32-2.00	59.50	6.00	10.12	---	---	55.25	28-2.38
54	66.25	4.75	8.50	---	---	62.75	44-1.88	65.25	6.00	9.94	---	---	61.00	28-2.38	67.00	6.69	11.38	---	---	62.25	28-2.62
60	73.00	5.19	9.44	---	---	69.25	52-1.88	71.25	6.44	10.75	---	---	67.00	32-2.38	74.25	7.31	12.56	---	---	69.00	32-2.88
NPS	CLASS 600 FLANGES							CLASS 900 FLANGES							CLASS 1500 FLANGES						
1/2	3.75	.56	2.06	.88	.88	2.62	4-0.62	4.75	.88	2.38	1.25	1.25	3.25	4-0.88	4.75	.88	2.38	1.25	1.25	3.25	4-0.88
3/4	4.62	.62	2.25	1.00	1.00	3.25	4-0.75	5.12	1.00	2.75	1.38	1.38	3.50	4-0.88	5.12	1.00	2.75	1.38	1.38	3.50	4-0.88
1	4.88	.69	2.44	1.06	1.06	3.50	4-0.75	5.88	1.12	2.88	1.62	1.62	4.00	4-1.00	5.88	1.12	2.88	1.62	1.62	4.00	4-1.00
1 1/4	5.25	.81	2.62	1.12	1.12	3.88	4-0.75	6.25	1.12	2.88	1.62	1.62	4.38	4-1.00	6.25	1.12	2.88	1.62	1.62	4.38	4-1.00
1 1/2	6.12	.88	2.75	1.25	1.25	4.50	4-0.88	7.00	1.25	3.25	1.75	1.75	4.88	4-1.12	7.00	1.25	3.25	1.75	1.75	4.88	4-1.12
2	6.50	1.00	2.88	1.44	1.44	5.00	8-0.75	8.50	1.50	4.00	2.25	2.25	6.50	8-1.00	8.50	1.50	4.00	2.25	2.25	6.50	8-1.00
2 1/2	7.50	1.12	3.12	1.62	1.62	5.88	8-0.88	9.62	1.62	4.12	2.50	2.50	7.50	8-1.12	9.62	1.62	4.12	2.50	2.50	7.50	8-1.12
3	8.25	1.25	3.25	1.81	1.81	6.62	8-0.88	9.50	1.50	4.00	2.12	2.12	7.50	8-1.00	10.50	1.88	4.62	2.88	2.88	8.00	8-1.25
3 1/2	9.00	1.38	3.38	1.94	1.94	7.25	8-1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4	10.75	1.50	4.00	2.12	2.12	8.50	8-1.00	11.50	1.75	4.60	2.75	2.75	9.25	8-1.25	12.25	2.12	4.88	3.56	3.56	9.50	8-1.38
5	13.00	1.75	4.50	2.38	2.38	10.50	8-1.12	13.75	2.00	5.00	3.12	3.12	11.00	8-1.38	14.75	2.88	6.12	4.12	4.12	11.50	8-1.62
6	14.00	1.88	4.62	2.62	2.62	11.50	12-1.12	15.00	2.19	5.50	3.38	3.38	12.50	12-1.25	15.50	3.25	6.75	4.69	4.69	12.50	12-1.50
8	16.50	2.19	5.25	3.00	3.00	13.75	12-1.25	18.50	2.50	6.38	4.00	4.00	15.50	12-1.50	19.00	3.62	8.38	5.62	5.62	15.50	12-1.75
10	20.00	2.50	6.00	3.38	3.38	17.00	16-1.38	21.50	2.75	7.25	4.25	4.25	18.50	16-1.50	23.00	4.25	10.00	6.25	6.25	19.00	12-2.00
12	22.00	2.62	6.12	3.62	3.62	19.25	20-1.38	24.00	3.12	7.88	4.63	4.63	21.00	20-1.50	26.50	4.88	11.12	7.12	7.12	22.50	16-2.12
14	23.75	2.75	6.50	3.69	3.69	20.75	20-1.50	25.25	3.38	8.38	5.12	5.12	22.00	20-1.62	29.50	5.25	11.75	---	---	25.00	16-2.38
16	27.00	3.00	7.00	4.19	4.19	23.75	20-1.62	27.75	3.50	8.50	5.25	5.25	24.25	20-1.75	32.50	5.75	12.25	---	---	27.75	16-2.62
18	29.25	3.25	7.25	4.62	4.62	25.75	20-1.75	31.00	4.00	9.00	6.00	6.00	27.00	20-2.00	36.00	6.38	12.88	---	---	30.50	16-2.88
20	32.00	3.50	7.50	5.00	5.00	28.50	24-1.75	33.75	4.25	9.75	6.25	6.25	29.50	20-2.12	38.75	7.00	14.00	---	---	32.75	16-3.12
24	37.00	4.00	8.00	5.50	5.50	33.00	24-2.00	41.00	5.50	11.50	8.00	8.00	35.50	20-2.62	46.00	8.00	16.00	---	---	39.00	16-3.62
30	44.50	4.50	9.75	---	---	40.25	28-2.12	48.50	5.88	12.25	---	---	42.75	20-3.12	---	---	---	---	---	---	---
36	51.75	4.88	11.12	---	---	47.00	28-2.62	57.50	6.75	14.25	---	---	50.75	20-3.62	---	---	---	---	---	---	---
42	55.25	6.62	11.00	---	---	60.50	28-2.62	61.50	8.12	14.62	---	---	54.75	24-3.62	---	---	---	---	---	---	---
48	62.75	7.44	12.44	---	---	57.50	32-2.88	70.25	9.19	16.50	---	---	62.50	24-4.12	---	---	---	---	---	---	---
54	70.00	8.25	13.75	---	---	64.25	32-3.12	---	---	---	---	---	---	---	---	---	---	---	---	---	---
60	78.50	9.19	15.31	---	---	71.75	28-3.62	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NPS	CLASS 2500 FLANGES							NOTES:													
1/2	5.25	1.19	2.88	1.56	1.56	3.50	4-0.88	1 Always specify bore when ordering													
3/4	5.50	1.25	3.12	1.69																	