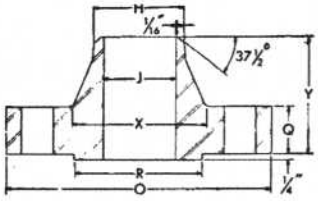
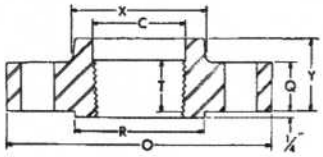
300 lb. flange

welding neck



threaded



manufacture: ★150 lb flanges are carbon steel furnished to ASTM specifications A105 grade 1. ASTM A105 is the same as Boiler Construction Code Specification SA105. Flanges furnished faced, drilled, and spot faced or back faced

dimensions: All dimensions are in inches and in accordance with ASA B16.5 where applicable. 22 inch is an interpolated dimension as given in MSS-SP-44. Sizes 26" to 42" have same flange drilling dimensions as 125 lb class cast iron flanges, ASA B16.1.

◆Flanges bored to dimensions shown, unless otherwise specified. Dimensions shown correspond to ASA B36.10 inside diameter of standard wall pipe.

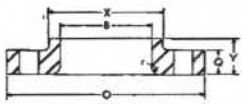
✦Thread lengths for 150 lb flanges are American Standard for Pipe Threads ASA B2.1. Add depths or height of facing to thread length.

✦Length shown does not include thickness of lap. For lapped to lapped, add thickness of both laps; for lapped to 1/16 inch raised face add one thickness of lap; for lapped to any other facing, add amount that such facing and one lap will cause the flanges to be separated.

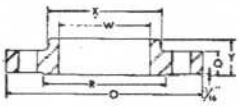
nominal pipe size	outside diam. of flange O	thick-ness of flange Q (min)	diam. of raised face R	diam. of hub at base X	no. of bolt holes■	diam. of bolts■	diam. of bolt circle	length of bolts: stud✣ 1/16" raised face	length of bolts: ring joint	length of bolts: machine 1/16" raised face	length thru hub: welding neck, Y	length thru hub: slip-on, th'rd socket Y	length thru hub: lap joint Y
1/2	3 3/4	9/16	1 3/8	1 1/2	4	1/2	2 5/8	2 1/2	3	2	2 1/16	7/8	7/8
3/4	4 5/8	5/8	1 11/16	1 7/8	4	5/8	3 1/4	2 3/4	3 1/4	2 1/2	2 1/4	1	1
1	4 7/8	11/16	2	2 1/8	4	5/8	3 1/2	3	3 1/2	2 1/2	2 7/16	1 1/16	1 1/16
1 1/4	5 1/4	3/4	2 1/2	2 1/2	4	5/8	3 7/8	3	3 1/2	2 3/4	2 9/16	1 1/16	1 1/16
1 1/2	6 1/8	13/16	2 7/8	2 3/4	4	3/4	4 1/2	3 1/2	4	3	2 11/16	1 3/16	1 3/16
2	6 1/2	7/8	3 5/8	3 5/16	8	5/8	5	3 1/4	4	3	2 3/4	1 5/16	1 5/16
2 1/2	7 1/2	1	4 1/8	3 15/16	8	3/4	5 7/8	3 3/4	4 1/2	3 1/4	3	1 1/2	1 1/2
3	8 1/4	1 1/8	5	4 5/8	8	3/4	6 5/8	4	4 3/4	3 1/2	3 1/8	1 11/16	1 11/16
3 1/2	9	1 3/16	5 1/2	5 1/4	8	3/4	7 1/4	4 1/4	5	3 3/4	3 3/16	1 3/4	1 3/4
4	10	1 1/4	6 3/16	5 3/4	8	3/4	7 7/8	4 1/4	5	3 3/4	3 3/8	1 7/8	1 7/8
5	11	1 3/8	7 3/16	7	8	3/4	9 1/4	4 1/2	5 1/4	4	3 7/8	2	2
6	12 1/2	1 7/16	8 1/2	8 1/8	12	3/4	10 5/8	4 3/4	5 1/2	4 1/4	3 7/8	2 1/16	2 1/16
8	15	1 5/8	10 5/8	10 1/4	12	7/8	13	5 1/4	6	4 3/4	4 3/8	2 7/16	2 7/16
10	17 1/2	1 7/8	12 3/4	12 5/8	16	1	15 1/4	6	6 3/4	5 1/4	4 5/8	2 5/8	3 3/4
12	20 1/2	2	15	14 3/4	16	1 1/8	17 3/4	6 1/2	7 1/4	5 3/4	5 1/8	2 7/8	4
14	23	2 1/8	16 1/4	16 3/4	20	1 1/8	20 1/4	6 3/4	7 1/2	6	5 5/8	3	4 3/8
16	25 1/2	2 1/4	18 1/2	19	20	1 1/4	22 1/2	7 1/4	8	6 1/2	5 3/4	3 1/4	4 3/4
18	28	2 3/8	21	21	24	1 1/4	24 3/4	7 1/2	8 1/4	6 3/4	6 1/4	3 1/2	5 1/8
20	30 1/2	2 1/2	23	23 1/8	24	1 1/4	27	8	8 3/4	7	6 3/8	3 3/4	5 1/2
22	33	2 5/8	25 1/4	25 1/4	24	1 1/2	29 1/4	8 3/4	9 3/4	7 1/2	6 1/2	4	5 3/4
24	36	2 3/4	27 1/4	27 5/8	24	1 1/2	32	9	10	7 3/4	6 5/8	4 3/16	6
26	38 1/4	3 1/8	29 1/2	28 3/8	28	1 5/8	34 1/2	10	11	8 3/4	7 1/4	7 1/4	.....
28	40 3/4	3 3/8	31 1/2	30 1/2	28	1 5/8	37	10 1/2	11 1/2	9 1/4	7 3/4	7 3/4	.....
30	43	3 5/8	33 3/4	32 5/16	28	1 3/4	39 1/4	11 1/4	12 1/4	10	8 1/4	8 1/4	.....
32	45 1/4	3 7/8	36	34 11/16	28	1 7/8	41 1/2	12	13 1/4	10 1/2	8 3/4	8 3/4	.....
34	47 1/2	4	38	36 7/8	28	1 7/8	43 1/2	12 1/4	13 1/2	10 3/4	9 1/8	9 1/8	.....
36	50	4 1/8	40 1/4	39	32	2	46	12 3/4	14	11 1/4	9 1/2	9 1/2	.....

300 lb. flange

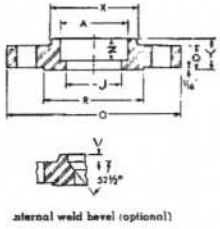
lap joint



slip-on

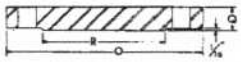


socket type



internal weld bevel (optional)

blind



nominal pipe size	diameter of bore: threaded counter bore C	diameter of bore: lap joint B	diameter of bore: slip-on, socket W	diameter of bore: welding neck, socket J◆	minimum thread length T+	diam. of hub at point of welding H	radius r	depth of socket Y	depth of socket W	weight (approx.) lb: welding neck	weight (approx.) lb: slip-on, socket, th'rd	weight (approx.) lb: lap joint	weight (approx.) lb: blind
½	.93	.90	.88	.62	5/8	.84	1/8	3/8	5/16	2	3	3	2
¾	1.14	1.11	1.09	.82	5/8	1.05	1/8	7/16	3/8	3	3	3	3
1	1.41	1.38	1.36	1.05	11/16	1.32	1/8	1/2	3/8	4	3	3	4
1¼	1.75	1.72	1.70	1.38	13/16	1.66	3/16	9/16	5/16	6	4	4	6
1½	1.99	1.97	1.95	1.61	7/8	1.90	1/4	5/8	3/8	8	6	6	7
2	2.50	2.46	2.44	2.07	1 1/8	2.38	5/16	11/16	7/16	9	7	7	8
2½	3.00	2.97	2.94	2.47	1¼	2.88	5/16	3/4	1/2	12	10	10	12
3	3.63	3.60	3.57	3.07	1¼	3.50	3/8	13/16	9/16	15	13	13	16
3½	4.13	4.10	4.07	3.55	1 3/16	4.00	3/8	7/8	9/16	18	17	17	21
4	4.63	4.60	4.57	4.03	1 7/16	4.50	7/16	15/16	5/8	25	22	22	27
5	5.69	5.69	5.66	5.05	1 11/16	5.56	7/16	.....	.....	32	28	28	35
6	6.75	6.75	6.72	6.07	1 13/16	6.63	1/2	.....	.....	42	39	39	50
8	8.75	8.75	8.72	7.98	2	8.63	1/2	.....	.....	67	58	58	81
10	10.88	10.92	10.88	10.02	2 3/16	10.75	1/2	.....	.....	91	81	91	127
12	12.94	12.92	12.88	12.00	2 3/8	12.75	1/2	.....	.....	138	115	139	184
14	14.19	14.18	14.14	13.25	2½	14.00	1/2	.....	.....	186	164	189	236
16	16.19	16.19	16.16	15.25	2 11/16	16.00	1/2	.....	.....	246	220	240	307
18	18.19	18.20	18.18	17.25	2¾	18.00	1/2	.....	.....	305	280	305	390
20	20.19	20.25	20.20	19.25	2 7/8	20.00	1/2	.....	.....	378	325	375	492
22	22.19	22.25	22.22	21.25	3 1/16	22.00	1/2	.....	.....	429	433	435	594
24	24.19	24.25	24.25	23.25	3¼	24.00	1/2	.....	.....	545	490	530	754
26	.....	.....	26.25	to be	.....	26¼	.....	.....	.....	670	570	.....	1050
28	.....	.....	28.25	speci-	.....	28¼	.....	.....	.....	810	720	.....	1275
30	.....	.....	30.25	fied	.....	30¼	.....	.....	.....	930	810	.....	1500
32	.....	.....	32.25	by	.....	32¼	.....	.....	.....	1025	890	.....	1775
33	.....	.....	34.25	pur-	.....	34 5/16	.....	.....	.....	1200	1075	.....	2025
36	.....	.....	36.25	chaser	.....	36 5/16	.....	.....	.....	1300	1200	.....	2275