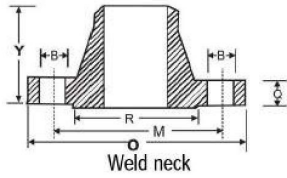


### ANSI FLANGES WEIGHTS (KGS)

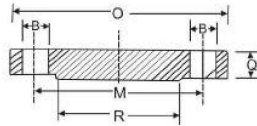
N. B.	150 lbs		300 lbs		600 lbs		900 lbs	
	WN	SO	WN	SO	WN	SO	WIN	SO
1/2"	0.7	0.4	0.8	0.7	0.9	0.8	1.9	1.8
3/4"	0.9	0.7	1.4	1.2	1.6	1.4	2.7	2.5
1"	1.1	0.8	1.7	1.4	1.9	1.7	3.9	3.6
1 1/4"	1.5	1.2	2.2	1.8	2.6	2.1	4.5	4.1
1 1/2"	1.8	1.4	3.2	2.7	3.5	3.1	6.2	5.6
2"	2.7	2.2	3.6	3.2	4.7	3.8	11.3	10.3
2 1/2"	4.4	3.5	5.5	4.5	6.7	5.5	15.5	14.3
3"	5.1	4.1	7.3	6.1	8.7	7.3	15	12.3
3 1/2"	6.4	5.2	9	7.5	11.2	8.9	--	--
4"	7.5	5.6	11.9	10	18.3	15.8	24	20.5
5"	9	6.3	16	12.5	30.5	25	37.5	33.5
6"	11	7.8	20	16.2	37	29.5	50	43
8"	18.5	12.6	31	25	55	44	85	74
10"	25	18	44.3	35	91	71	125	105
12"	38	27.5	64	50	108	85	165	136
14"	51	37	88	72	150	96	198	158
16"	63	46	112	90	180	145	224	184
18"	71	50	138	115	240	175	320	258
20"	88	64	171	137	295	220	375	316
24"	120	90	240	210	363	315	680	608



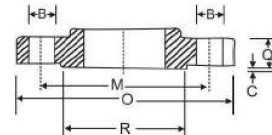
## FORGED FLANGES DIMENSIONS



Weld neck



Blind



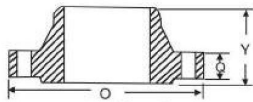
Slip-on

150 lbs

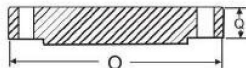
300 lbs

Normal pipe size (in mm)	Outside dia of flange	Minimum thickness of flange	Overall Length			bolt circle	No. and size of holes			O D of Raised face	
			Welding neck	slip-on & socket welding			Lap joint	No.	B		
				Y	R						
	O	Q	Y			Dia.m	No.	B	R		
15	89	11.2	47.6	15.9	15.9	60.5	4	15	35		
20	98	12.7	52.4	15.9	15.9	70.0	4	15	43		
25	108	14.3	55.6	17.5	17.5	79.5	4	15	51		
32	117	15.9	57.2	20.6	20.6	89.0	4	15	64		
40	127	17.5	61.9	22.2	22.2	98.5	4	15	73		
50	152	19.1	63.5	25.4	25.4	120.5	4	19	92		
65	178	22.3	69.8	28.6	28.6	139.5	4	19	105		
80	190	23.9	69.8	30.2	30.2	152.5	4	19	127		
90	216	23.9	71.4	31.8	31.8	178.0	8	19	140		
100	229	23.9	76.2	33.3	33.3	190.5	8	19	157		
125	254	23.9	88.9	36.5	36.5	216.0	8	22	186		
150	279	25.4	88.9	39.7	39.7	241.5	8	22	216		
200	343	28.6	101.6	44.4	44.4	298.5	8	22	270		
250	406	30.2	101.6	49.2	49.2	362.0	12	25	324		
300	483	31.8	114.3	55.6	55.6	432.0	12	25	381		
350	533	35.0	127.0	57.2	79.4	476.0	12	29	413		
400	597	36.6	127.0	63.5	87.3	539.5	16	29	470		
450	635	39.7	139.7	68.3	96.8	578.0	16	32	533		
500	698	42.9	144.5	73.0	103.2	635.0	20	32	584		
600	813	47.7	152.4	82.6	111.1	749.5	20	35	692		

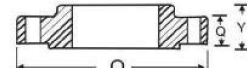
Normal pipe size (in mm)	Outside dia of flange	Minimum thickness of flange	Overall Length			bolt circle	No. and size of holes			O D of Raised face	
			Welding neck	slip-on & socket welding			Lap joint	No.	B		
				Y	R						
	O	Q	Y			Dia.m	No.	B	R		
15	95	14.3	52.4	22.2	22.2	66.5	4	15	35		
20	117	15.9	57.2	25.4	25.4	82.5	4	19	43		
25	124	17.5	61.9	27.0	27.0	89.5	4	19	51		
32	133	19.1	65.1	27.0	27.0	98.5	4	19	64		
40	156	20.7	68.3	30.2	30.2	114.5	4	22	73		
50	165	22.3	69.8	33.3	33.3	127.0	8	19	92		
65	190	25.4	76.2	38.1	38.1	149.0	8	22	105		
80	210	28.6	79.4	42.9	42.9	168.0	8	22	127		
90	229	30.2	81.0	44.5	44.5	184.0	8	22	140		
100	254	31.8	85.7	47.6	47.6	200.0	8	22	157		
125	279	35.0	98.4	50.8	50.8	235.0	8	22	186		
150	313	36.6	98.4	52.4	52.4	270.0	12	22	216		
200	381	41.3	111.1	61.9	61.9	330.0	12	25	270		
250	444	47.7	117.5	66.7	95.3	387.5	16	29	324		
300	521	50.8	130.2	73.0	101.6	451.0	16	32	381		
350	584	54.0	142.9	76.2	111.1	514.5	20	32	413		
400	648	57.2	146.0	82.6	120.7	571.5	20	35	470		
450	711	60.4	158.8	88.0	130.2	628.5	24	35	584		
500	775	63.5	161.9	95.2	139.7	686.0	24	35	692		
600	914	69.9	168.3	106.4	152.4	813.0	24	41	692		



Weld neck



Blind



Slip-on

600 lbs

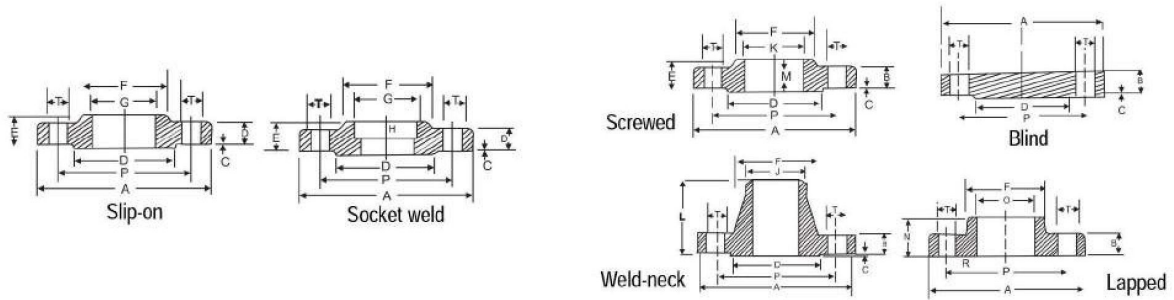
900 lbs

Normal pipe size (in mm)	Outside dia of flange	Minimum thickness of flange	Overall Length			bolt circle	No. and size of holes			O D of Raised face	
			Welding neck	slip-on & socket welding			Lap joint	No.	B		
				Y	R						
	O	Q	Y			Dia.m	No.	B	R		
15	95	14.3	52.4	22.2	22.2	66.5	4	15	35		
20	117	15.9	57.2	25.4	25.4	82.5	4	19	43		
25	124	17.5	61.9	27.0	27.0	89.5	4	19	51		
32	133	20.7	66.7	28.6	28.5	98.5	4	19	64		
40	156	22.3	69.8	31.8	31.8	114.5	4	22	73		
50	165	25.4	73.0	36.5	36.5	127.0	8	19	92		
65	190	28.6	79.4	41.3	41.3	149.0	8	22	105		
80	210	31.8	82.6	46.0	46.0	168.0	8	22	127		
90	229	35.0	85.7	49.2	49.2	184	8	25	140		
100	273	38.1	101.6	54.0	54.0	216.0	8	25	157		
125	330	44.5	114.3	60.3	60.3	266.5	8	29	186		
150	356	47.7	117.5	66.7	66.7	292.0	12	29	216		
200	419	55.6	133.4	76.2	76.2	349.0	12	32	270		
250	508	63.5	152.4	85.7	115.1	432.0	16	35	324		
300	559	66.7	155.6	92.1	111.1	489.0	20	35	381		
350	603	69.9	165.1	93.7	117.5	527.0	20	38	413		
400	686	76.2	177.8	106.4	127.0	603.0	20	41	470		
450	743	82.6	184.2	117.6	139.7	654.0	20	45	533		
500	813	88.9	190.5	127.0	165.1	724.0	24	45	584		
600	940	101.6	203.2	139.7	184.2	838.0	24	51	692		

Normal pipe size (in mm)	Outside dia of flange	Minimum thickness of flange	Overall Length			bolt circle	No. and size of holes			O D of Raised face	
			Welding neck	slip-on & socket welding			Lap joint	No.	B		
				Y	R						
	O	Q	Y			Dia.m	No.	B	R		
15	121	22.3	60.3	31.8	31.8	82.5	4	22	35		
20	130	25.4	69.8	34.9	34.9	89.0	4	22	43		
25	149	28.6	73.0	41.3	41.3	101.5	4	25	51		
32	159	28.6	73.0	41.3	41.3	111.0	4	25	64		
40	178	31.8	82.6	44.4	44.4	124.0	4	29	73		
50	216	38.1	101.6	57.2	57.2	165.0	8	25	92		
65	244	41.3	104.8	63.5	63.5	190.5	8	29	105		
80	241	38.1	101.6	54.0	54.0	190.5	8	25	127		
100	292	44.5	114.3	69.8	69.8	235.0	8	32	157		
125	349	50.8	127.0	79.4	79.4	279.5	8	35	186		
150	381	55.6	139.7	85.7	85.7	317.5	12	32	216		
200	470	68.5	161.5	101.8	114.3	393.5	12	38	270		
250	546	69.9	184.2	108.0	127.0	470.0	16	38	324		
300	610	79.4	200.0	117.5	142.9	533.5	20	38	381		
350	641	85.8	212.7	130.2	155.6	559.0	20	41	413		
400	705	88.9	215.8	133.4	165.1	616.0	20	45	470		
450	787	101.6	228.6	152.4	190.5	686.0	20	51	533		
500	857	108.0	247.6	158.8	209.6	749.5	20	54	584		
600	1041	139.7	292.1	203.2	266.7	901.5	20	67	692		

**CLASS 1500 FLANGES - METRIC**

N.B.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	T	No. of Holes
15	121	22.2	6.4	35	32	38	22.4	9.5	21.3	23.5	60	22	32	23.0	82.6	3.0	22.2	4
20	130	25.4	6.4	43	35	44	27.7	11.0	26.7	29.0	70	25	35	28.0	88.9	3.0	22.2	4
25	149	28.6	6.4	51	41	52	34.5	12.5	33.4	36.0	73	29	41	35.0	101.6	3.0	25.4	4
32	159	28.6	6.4	64	41	64	43.2	14.5	42.2	44.5	73	30	41	43.5	111.1	5.0	25.4	4
40	178	31.8	6.4	73	44	70	49.5	16.0	48.3	50.5	83	32	44	50.0	123.8	6.5	28.6	4
50	216	38.1	6.4	92	57	105	62.0	17.5	60.3	63.5	102	38	57	62.5	165.1	8.0	25.4	8
65	244	41.3	6.4	105	64	124	74.7	19.0	73.0	76.0	105	48	64	75.0	190.5	8.0	28.6	8
80	267	47.6	6.4	127	73	133	--	--	88.9	92.0	117	51	73	91.5	203.2	9.5	31.8	8
100	311	54.0	6.4	157	91	162	--	--	114.3	118.0	124	57	91	17.0	241.3	11.0	34.9	8
125	375	73.0	6.4	186	105	197	--	--	141.3	145.0	156	64	105	145.0	292.1	11.0	41.3	8
150	394	82.6	6.4	216	119	229	--	--	168.3	171.0	171	70	119	171.0	317.5	12.5	38.1	12
200	483	92.1	6.4	270	143	292	--	--	219.1	222.0	213	76	143	222.0	393.7	12.5	44.4	12
250	584	108.0	6.4	324	159	368	--	--	273.0	276.0	254	84	178	277.0	482.6	12.5	50.8	12
300	673	123.8	6.4	381	181	451	--	--	323.9	329.0	283	92	219	328.0	571.5	12.5	54.0	16
350	749	133.4	6.4	413	--	495	--	--	356.6	--	298	--	241	360.0	635.0	12.5	60.3	16
400	826	146.1	6.4	470	--	552	--	--	406.4	--	311	--	260	411.0	704.8	12.5	67.3	16
450	914	161.9	6.4	533	--	597	--	--	457.2	--	327	--	276	462.0	774.7	12.5	73.0	16
500	984	178.0	6.4	584	--	641	--	--	508.0	--	356	--	292	514.0	831.8	12.5	79.4	16
600	1168	203.0	6.4	692	--	762	--	--	609.6	--	406	--	330	616.0	990.6	12.5	92.0	16



**CLASS 2500 FLANGES - METRIC**

N.B.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	T	No. of Holes
15	133	30.2	6.4	35	40	43	--	--	21.3	23.5	73	29	40	23.0	88.9	3.0	22.2	4
20	140	31.7	6.4	43	43	51	--	--	26.7	29.0	79	32	43	28.0	95.2	3.0	22.2	4
25	159	34.9	6.4	51	48	57	--	--	33.4	35.0	89	35	48	35.0	107.9	3.0	25.4	4
32	184	38.1	6.4	64	52	73	--	--	42.2	44.5	95	38	52	43.5	130.2	5.0	28.6	4
40	203	44.4	6.4	73	60	79	--	--	48.3	50.5	111	44	60	50.0	146.0	6.5	31.8	4
50	235	50.8	6.4	92	70	95	--	--	60.3	63.5	127	51	70	62.5	171.4	8.0	28.6	8
65	267	57.1	6.4	105	79	114	--	--	73.0	76.0	143	57	79	75.0	196.8	8.0	31.8	8
80	305	66.7	6.4	127	92	133	--	--	88.9	92.0	168	64	92	91.5	228.6	9.5	34.9	8
100	356	76.2	6.4	157	108	165	--	--	114.3	118.0	190	70	108	117.0	273.0	11.0	41.3	8
125	419	92.1	6.4	186	130	203	--	--	141.3	145.0	229	76	130	145.0	323.8	11.0	47.6	8
150	483	108.0	6.4	216	152	235	--	--	168.3	171.0	273	83	152	171.0	368.3	12.5	54.0	8
200	552	127.0	6.4	270	178	305	--	--	219.1	222.0	318	95	178	222.0	438.1	12.5	54.0	12
250	673	165.1	6.4	324	229	375	--	--	273.0	276.0	419	108	229	277.0	539.7	12.5	66.7	12
300	762	184.1	6.4	381	254	441	--	--	323.9	329.0	464	121	254	328.0	619.1	12.5	73.0	12

\*Minimum length.

