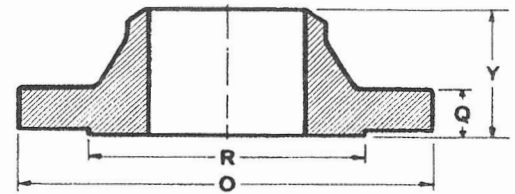


150LB FLANGES

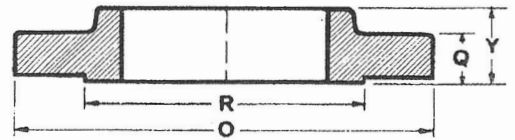
Nom. Pipe Size	Outside Diameter of Flange		Thickness of Flange		Diameter of Raised Face		Length through hub -Y						Drilling				
							Welding Neck	Slip-on		Lap Joint	Diameter of		Number and size of holes				
								Screwed									
	in	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	No.	in
1/2	3.1/2	88.9	7/16	11.1	1.3/8	34.9	1.7/8	47.6	5/8	15.9	5/8	15.9	2.3/8	60.3	4	5/8	15.9
3/4	3.7/8	98.4	1/2	12.7	1.11/16	42.9	2.1/16	52.4	5/8	15.9	5/8	15.9	2.3/4	69.8	4	5/8	15.9
1	4.1/4	107.9	4/7	14.3	2	50.8	2.3/16	55.6	11/16	17.5	11/16	17.5	3.1/8	79.4	4	5/8	15.9
1.1/4	4.5/8	117.5	5/8	15.9	2.1/2	63.5	2.1/4	57.1	13/16	20.6	13/16	20.6	3.1/2	88.9	4	5/8	15.9
1.1/2	5	127.0	2/3	17.5	2.7/8	73.0	2.7/16	61.9	7/8	22.2	7/8	22.2	3.7/8	98.4	4	5/8	15.9
2	6	152.4	3/4	19.1	3.5/8	92.1	2.1/2	63.5	1	25.4	1	25.4	4.3/4	120.6	4	3/4	19.0
2.1/2	7	177.8	7/8	22.2	4.1/8	104.8	2.3/4	69.8	1.1/8	28.6	1.1/8	28.6	5.1/2	152.4	4	3/4	19.0
3	7.1/2	190.5	15/16	23.8	5	127.0	2.3/4	69.8	1.3/16	30.2	1.3/16	30.2	6	177.8	4	3/4	19.0
3.1/2	8.1/2	215.9	15/16	23.8	5.1/2	139.7	2.13/16	71.4	1.1/4	31.7	1.1/4	31.7	7	190.5	8	3/4	19.0
4	9	228.6	15/16	23.8	6.3/16	157.2	3	76.2	1.5/16	33.3	1.5/16	33.3	7.1/2	215.9	8	3/4	19.0
5	10	254.0	15/16	23.8	7.5/16	185.7	3.1/2	88.9	1.7/16	36.5	1.7/16	36.5	8.1/2	241.3	8	7/8	22.2
6	11	279.4	1	25.4	8.1/2	215.9	3.1/2	88.9	1.9/16	39.7	1.9/16	39.7	9.1/2	298.4	8	7/8	22.2
8	13.1/2	342.9	1.1/8	28.6	10.5/8	269.9	4	101.6	1.3/4	44.4	1.3/4	44.4	11.3/4	361.9	8	7/8	22.2
10	16	406.4	1.3/16	30.2	12.3/4	323.8	4	101.6	1.15/16	49.2	1.15/16	49.2	14.1/4	361.9	12	1	25.4
12	19	482.6	1.1/4	31.8	15	381.0	1.1/2	114.3	2.3/16	55.6	2.3/16	55.6	17	431.8	12	1	25.4
14	21	533.4	1.3/8	34.9	16.1/4	412.7	5	127.0	2.1/4	57.1	3.1/8	79.4	18.3/4	476.2	12	1.1/8	28.6
16	23.1/2	596.9	1.7/16	36.5	18.1/2	469.9	5	127.0	2.1/2	63.5	3.7/16	87.3	21.1/4	539.7	16	1.1/8	28.6
18	25	635.0	1.9/16	39.7	21	533.4	5.1/2	139.7	2.11/16	68.3	3.13/16	96.8	22.3/4	577.8	16	1.1/4	31.7
20	27.1/2	698.5	1.11/16	42.9	23	584.2	5.11/16	144.5	2.7/8	73.0	4.1/16	103.2	25	635.0	20	1.1/4	31.7
22	29.1/2	749.3	1.11/16	46.0	25.1/4	641.3	5.7/8	149.2	3.1/8	79.4	1.1/4	107.9	29.1/2	692.1	20	1.3/8	34.9
24	32	812.8	1.7/8	47.6	27.1/4	692.1	6	152.4	3.1/4	82.5	4.3/8	111.1	31.1/4	749.3	20	1.3/8	34.9

The 1/16in. (1.6mm) raised face is included in thickness Q and length Y.

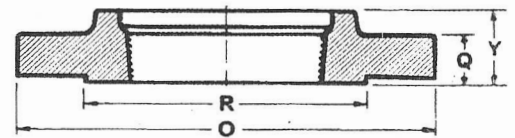
Nom. Pipe Size in.	Approximate Weights									
	Welding Neck		Slip-on		Blind		Lap Joint		Socket-weld	
			Screwed							
	lbs	kgs	lbs	kgs	lbs	kgs	lbs	kgs	lbs	kgs
1/2	2	0.91	2	0.91	2	0.91	2	0.91	2	0.91
3/4	2	0.91	2	0.91	2	0.91	2	0.91	2	0.91
1	2	0.91	2	0.91	2	0.91	2	0.91	2	0.91
1.1/4	3	1.36	3	1.36	3	1.36	3	1.36	3	1.36
1.1/2	4	1.81	3	1.36	4	1.81	3	1.36	3	1.36
2	6	2.72	5	2.27	4	1.81	5	2.27	5	2.27
2.1/2	8	3.63	7	3.17	11	4.99	7	3.17	7	3.17
3	10	4.53	8	3.63	14	6.35	8	3.63	8	3.63
3.1/2	12	5.44	11	4.99	13	5.89	11	4.99	11	4.99
4	15	6.80	13	5.90	19	8.63	13	5.90	13	5.90
5	19	8.62	15	6.80	21	9.52	15	6.80	15	6.80
6	24	10.89	19	8.62	28	12.70	19	8.62	19	8.62
8	39	17.70	30	13.61	48	21.77	30	13.61	30	13.61
10	52	23.59	43	19.50	70	31.75	43	19.50	43	19.50
12	80	36.29	64	29.01	105	47.63	64	29.01	64	29.01
14	102	46.27	85	38.55	135	61.23	99	44.90	85	38.55
16	127	57.60	93	42.18	176	79.83	128	58.06	94	43.66
18	140	63.50	120	54.43	214	97.10	146	66.22	120	54.43
20	170	77.11	155	70.31	284	128.82	185	83.91	155	70.31
22	224	101.60	159	72.12	333	151.05	245	111.13	185	83.91
24	260	117.93	210	95.25	398	180.53	260	117.93	210	95.25



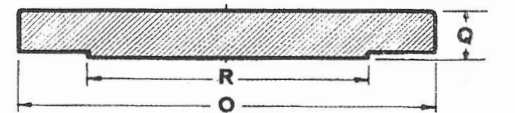
WELDING NECK



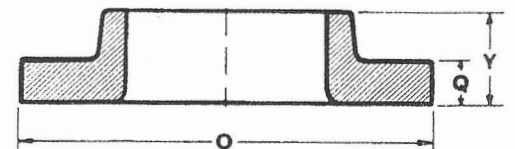
SLIP-ON



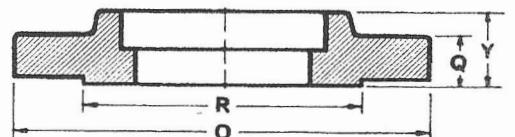
SCREWED



BLIND



LAP JOINT



SOCKET-WELD