

DIMENSIONS AND NOMINAL WEIGHTS OF BLACK

DIMENSIONS AND NOMINAL WEIGHTS OF BLACK STEEL TUBS IN ACCORDANCE WITH IS: 1239 (PART 1) - 1979

Outside daimeter				Thickness								Weight of black tube				Diamention of sockets						
Nominal	Light		Medium & Heavy		Light		Medium		Heavy		Light		Medium		Heavy		Outside					
	Max	Min	Max	Min	mm	swg	mm	swg	mm	swg	Plain	Screwed	Socketed	Plain	Screwed	Socketed	Plain	Screwed	Min	Max	Length	
Bore	mm	mm	mm	mm							End	Socketed	kg/m	End	Socketed	kg/m	End	Socketed	kg/m	mm	mm	mm
6	10.1	9.7	10.6	9.8	1.8	15	2.0	14	2.65	12	0.361	0.364	0.364	0.407	0.410	0.496	0.496	0.496	0.496	15	19	19
8	13.6	13.2	14.0	13.2	1.8	15	2.35	13	2.9	11	0.517	0.521	0.521	0.650	0.654	0.769	0.769	0.773	18.5	27	27	
10	17.1	16.7	17.5	16.7	1.8	15	2.35	13	2.9	11	0.674	0.680	0.680	0.852	0.858	1.02	1.02	1.03	22	28	28	
15	21.4	21.0	21.8	21.0	2.0	14	2.65	12	3.25	10	0.952	0.951	0.951	1.22	1.23	1.45	1.45	1.46	27	37	37	
20	26.9	26.4	27.3	26.5	2.35	13	2.65	12	3.25	10	1.41	1.42	1.42	1.58	1.59	1.90	1.90	1.91	32.5	39	39	
25	33.8	33.2	34.2	33.3	2.65	12	3.25	10	4.05	8	2.01	2.03	2.03	2.44	2.46	2.97	2.97	2.99	39.5	46	46	
32	42.5	41.9	42.9	42.0	2.65	12	3.25	10	4.05	8	2.58	2.61	2.61	3.14	3.17	3.84	3.84	3.87	49	51	51	
40	48.4	47.8	48.8	47.9	2.9	11	3.25	10	4.05	8	3.25	3.29	3.29	3.61	3.65	4.43	4.43	4.47	56	51	51	
50	60.2	59.6	60.8	59.7	2.9	11	3.65	9	4.5	7	4.11	4.18	4.18	5.10	5.17	6.17	6.17	6.24	68	60	60	
65	76.0	75.2	76.6	75.3	3.25	10	3.65	9	4.5	7	5.80	5.92	5.92	6.51	6.63	7.90	7.90	8.02	84	69	69	
80	88.7	87.9	89.5	88.0	3.25	10	4.05	8	4.85	6	6.81	6.98	6.98	8.47	8.64	10.1	10.1	10.3	98	75	75	
100	113.9	113.0	115.0	113.1	3.65	9	4.5	7	5.4	5	9.89	10.2	10.2	12.1	12.4	14.4	14.4	14.7	124	87	87	
125	-	-	140.8	138.5	-	-	4.85	6	5.4	5	-	-	-	16.2	16.7	17.8	17.8	18.3	151	96	96	
150	-	-	166.5	163.9	-	-	4.85	6	5.4	5	-	-	-	19.2	19.8	21.2	21.2	21.8	178	96	96	

BIG DIAMETER ERW PIPES CONFIRM TO IS 3589

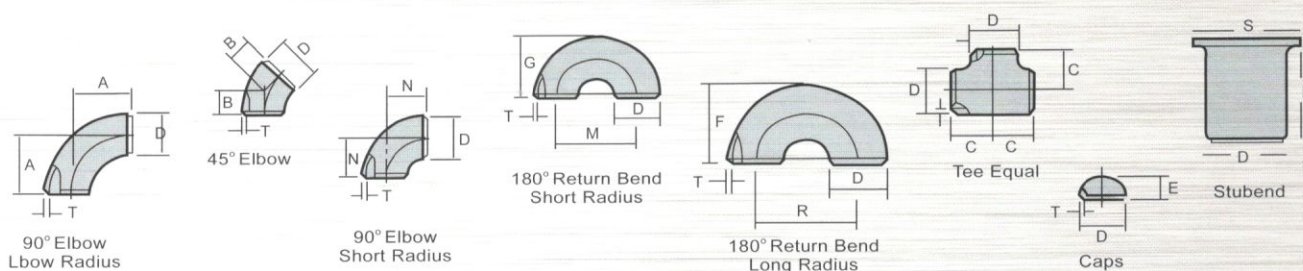
Wall Thickness In mm	Nominal Bore 7" NB 193.7 mm OD	Nominal Bore 8" NB 219.1 mm OD	Nominal Bore 10" NB 273 mm OD	Nominal Bore 12" NB 323.7 mm OD	Nominal Bore 14" NB 355.6 mm OD	Nominal Bore 16" NB 406.4 mm OD	Nominal Bore 18" NB 457 mm OD	Nominal Bore 20" NB 508 mm OD
4.85	22.59	25.62	32.07	38.18	-	-	-	-
5.20	24.17	27.43	34.34	40.85	-	-	-	-
5.60	26.00	29.28	36.93	43.93	48.11	-	-	-
6.00	27.88	31.53	39.50	47.02	51.49	61.00	69.00	-
6.35	29.34	33.28	41.73	49.67	54.43	62.35	70.50	78.50
7.01	32.27	36.76	46.43	55.45	61.82	69.04	-	-
7.94	-	41.00	50.95	61.85	67.98	77.92	87.80	-
8.18	-	42.56	53.42	65.12	-	93.13	-	-
9.53	-	51.50	60.24	73.75	81.21	-	105.00	117.00
12.70	-	-	-	-	107.28	123.00	139.00	155.00

Tolerance on Thickness and weight
The following manufacturing shall be permitted on the tubes and sockets.

- (a) Thickness
(1) Butt welded Light tubes +Not limited
-8 percent
Medium and Heavy tubes +Not limited
-10 percent
-12.5 percent
(b) Weight
(1) Single tube (light series) + 10 percent
- 8 percent
(2) single tube (medium and heavy series) ± 10 percent

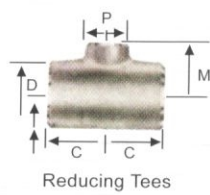
BUTT WELDING PIPE FITTING DIMENSIONAL STANDARD

ANSI B-16.9 / 16.28 / MSS SP-43

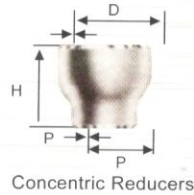


Nominal Pipe Size		Outside Diameter	Center to Face				Back to Face			Center to Center			Length 'L'	
Inch.	mm	D	A	B	C	N	E	F	G	R	M	S	MSS SP43	ANSI B 16.9
1/2	15	21.3	38	16	25	-	25	48	-	76	-	34.9	50.8	76.2
3/4	20	26.7	29	11	29	-	25	43	-	57	-	42.8	50.8	76.2
1	25	33.4	38	22	38	25	38	56	41	76	51	50.8	50.8	101.6
1 1/4	32	42.2	48	25	48	32	38	70	52	95	64	63.5	50.8	101.6
1 1/2	40	48.3	57	29	57	38	38	83	62	114	76	73	50.8	101.6
2	50	60.3	76	35	64	51	38	106	81	152	102	92	63.5	152.4
2 1/2	65	73.0	95	44	76	64	38	132	100	191	127	104.8	63.5	152.4
3	80	88.9	114	51	86	76	51	159	121	229	152	127	63.5	152.4
3 1/2	90	101.6	133	57	95	89	64	184	140	267	178	139.7	76.2	152.4
4	100	114.3	152	64	105	102	64	210	159	305	203	157.2	76.2	152.4
5	125	141.3	190	79	124	127	76	262	197	381	254	185.7	76.2	203.2
6	150	168.3	229	95	143	152	89	313	237	457	305	215.9	88.9	203.2
8	200	219.1	305	127	178	203	102	414	313	610	406	270	101.6	203.2
10	250	273.1	381	159	216	254	127	518	391	762	508	324	127.0	254.0
12	300	323.9	457	190	254	305	152	619	467	914	610	381	152.4	254.0
14	350	355.6	533	222	279	356	165	711	533	1067	711	412.8	152.4	305.0
16	400	406.4	610	254	305	406	178	813	610	1219	813	470.0	152.4	305.0
18	450	457.2	686	286	343	457	203	914	686	1372	914	500.4	152.4	305.0
20	500	508.0	762	318	381	508	229	1016	762	1524	1016	584.2	152.4	305.0
22	550	559.0	838	343	419	559	254	1118	838	1676	1118	614.4	152.4	305.0
24	600	610.0	914	381	432	610	267	1219	914	1829	1219	692.2	152.4	305.0
26	650	660.0	991	406	495	660	267							
28	700	711.0	1067	438	521	711	267							
30	750	762.0	1143	470	559	762	267							
32	800	813.0	1219	502	597	813	267							
34	850	864.0	1295	533	635	864	267							
36	900	914.0	1372	565	673	914	267							
38	950	965.0	1448	600	711	965	305							
40	1000	1016.0	1524	632	749	1016	305							
42	1050	1067.0	1600	660	762	1067	305							
44	1100	1118.0	1676	695	813	1118	343							
46	1150	1168.0	1753	727	851	1168	343							
48	1200	1219.0	1829	759	889	1219	343							

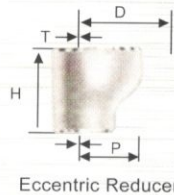
BUTT-WELDING PIPE FITTING ANSI B 16.9 / 16.28



Reducing Tees



Concentric Reducers



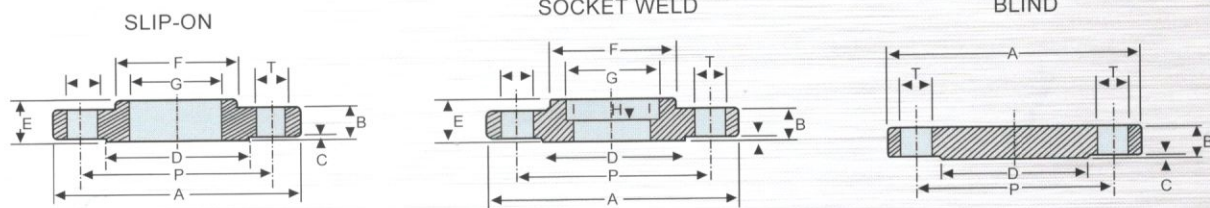
Eccentric Reducers



Nominal Pipe Size		Outside Diameter		Center to End		Length
Inch.	mm	D	P	C	M	H
1 1/2 x 3/8	15 x 10	21.3	17.1	25	25	38
1/2 x 1/4	15x8	21.3	13.7	25	25	38
3/4 x 1/2	20 x 15	26.7	21.3	29	29	38
3/4 x 3/8	20 x 10	26.7	17.1	29	29	38
1 x 3/4	25 x 20	33.4	26.7	38	38	51
1 x 1/2	25 x 15	33.4	21.3	38	38	51
1 1/4 x 1	32 x 25	42.2	33.4	48	48	51
1 1/4 x 3/4	32 x 20	42.2	26.7	48	48	51
1 1/4 x 1 1/2	32 x 15	42.2	21.3	48	48	51
1 1/2 x 1 1/2	40 x 32	48.3	42.2	57	57	64
1 1/2 x 1	40 x 25	48.3	33.4	57	57	64
1 1/2 x 3/4	40 x 20	48.3	26.7	57	57	64
1 1/2 x 1/2	40 x 15	48.3	21.3	57	57	64
2 x 1 1/2	50 x 40	60.3	48.2	64	60	76
2 x 1 1/4	50 x 32	60.3	42.2	64	57	76
2 x 1	50 x 25	60.3	33.4	64	51	76
2 x 3/4	50 x 20	60.3	26.7	64	44	76
2 1/2 x 2	65 x 50	73.0	60.3	76	70	89
2 1/2 x 1 1/2	65 x 40	73.0	48.3	76	67	89
2 1/2 x 1 1/4	65 x 32	73.0	42.2	76	64	89
2 1/2 x 1	65 x 25	73.0	33.4	76	57	89
3 x 2 1/2	80 x 65	88.9	73.0	86	83	89
3 x 2	80 x 50	88.9	60.3	86	76	89
3 x 1 1/2	80 x 40	88.9	48.3	86	73	89
3 x 1 1/4	80 x 32	88.9	42.2	86	70	89
3 1/2 x 3	90 x 80	101.6	88.9	95	92	102
3 1/2 x 2 1/2	90 x 65	101.6	73.0	95	89	102
3 1/2 x 2	90 x 50	101.6	60.3	95	83	102
3 1/2 x 1 1/2	90 x 40	101.6	48.3	95	79	102
3 1/2 x 1 1/4	90 x 32	101.6	42.2	-	-	102
4 x 3 1/2	100 x 90	114.3	101.6	105	102	102
4 x 3	100 x 80	114.3	88.9	105	98	102
4 x 2 1/2	100 x 65	114.3	73.0	105	95	102
4 x 2	100 x 50	114.3	60.3	105	89	102
4 x 1 1/2	100 x 40	114.3	48.3	105	86	102
5 x 4	125 x 100	141.3	114.3	124	117	127
5 x 3 1/2	125 x 90	141.3	101.6	124	114	127
5 x 3	125 x 80	141.3	88.9	124	111	127
5 x 2 1/2	125 x 65	141.3	73.0	124	108	127
5 x 2	125 x 50	141.3	60.3	124	105	127
6 x 5	150 x 125	168.3	141.3	143	137	140
6 x 4	150 x 100	168.3	114.3	143	130	140
6 x 3 1/2	150 x 90	168.3	101.6	143	127	140
6 x 3	150 x 80	168.3	88.9	143	124	140
6 x 2 1/2	150 x 65	168.3	73.0	143	121	140

Nominal Pipe Size		Outside Diameter		Center to End		Length
Inch.	mm	D	P	C	M	H
8 x 6	200 x 150	219.1	168.3	178	168	152
8 x 5	200 x 125	219.1	141.3	178	162	152
8 x 4	200 x 100	219.1	114.3	178	156	152
8 x 3 1/2	200 x 90	219.1	101.6	178	152	152
10 x 8	250 x 200	273.1	219.1	216	203	178
10 x 6	250 x 150	273.1	168.1	216	194	178
10 x 5	250 x 125	273.1	141.3	216	191	178
10 x 4	250 x 100	273.1	114.3	216	184	178
12 x 10	300 x 250	323.9	273.1	254	241	203
12 x 8	300 x 200	323.9	219.1	254	229	203
12 x 6	300 x 150	323.9	168.3	254	219	203
12 x 5	300 x 125	323.9	141.3	254	216	203
14 x 12	350 x 300	355.6	323.9	279	270	330
14 x 10	350 x 250	355.6	273.1	279	257	330
14 x 8	350 x 200	355.6	219.1	279	248	330
14 x 6	350 x 150	355.6	168.3	279	238	330
16 x 14	400 x 350	406.4	355.6	305	305	356
16 x 12	400 x 300	406.4	323.9	305	295	356
16 x 10	400 x 250	406.4	273.1	305	283	356
16 x 8	400 x 200	406.4	219.1	305	273	356
16 x 6	400 x 150	406.4	168.3	305	264	356
18 x 16	450 x 400	457.0	406.4	343	330	381
18 x 14	450 x 350	457.0	355.6	343	330	381
18 x 12	450 x 300	457.0	323.9	343	321	381
18 x 10	450 x 250	457.0	273.1	343	308	381
18 x 8	450 x 200	457.0	219.1	343	298	381
20 x 18	500 x 450	508.0	457.0	381	368	508
20 x 16	500 x 400	508.0	406.4	381	356	508
20 x 14	500 x 350	508.0	355.6	381	356	508
20 x 12	500 x 300	508.0	323.9	381	346	508
20 x 10	500 x 250	508.0	273.1	381	333	508
20 x 8	500 x 200	508.8	219.1	381	324	508
22 x 20	550 x 500	559.0	508.0	419	406	508
22 x 18	550 x 450	559.0	457.0	419	394	508
22 x 16	550 x 400	559.0	406.4	419	381	508
22 x 14	550 x 350	559.0	355.6	419	381	508
22 x 12	550 x 300	559.0	323.9	419	371	508
24 x 10	550 x 250	559.0	273.1	419	359	508
24 x 22	600 x 550	610.0	559.0	432	432	508
24 x 20	600 x 500	610.0	508.0	432	432	508
24 x 18	600 x 450	610.0	457.0	432	419	508
24 x 16	600 x 400	610.0	406.4	432	406	508
24 x 14	600 x 350	610.0	355.6	432	406	508
24 x 12	600 x 300	610.0	323.9	432	397	508
24 x 10	600 x 250	610.0	273.1	432	384	508

DIMENSIONS OF CLASS 150 FLANGS AS PER ANSI B 16.5



N.B.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	T	No. of Holes
15	89	11.1	1.6	35	16	30	22.4	9.5	21.3	-	48	16	16	230	60.3	3.0	159	4
20	98	12.7	1.6	43	16	38	27.7	11.0	26.7	-	52	16	16	280	69.8	3.0	159	4
25	108	14.3	1.6	51	17	49	34.5	12.5	33.4	-	56	17	17	350	79.4	3.0	159	4
32	117	15.9	1.6	64	21	59	43.2	14.5	42.2	-	57	21	21	435	88.9	5.0	15.9	4
40	127	17.5	1.6	73	22	65	49.5	16.0	48.3	-	62	22	22	500	98.4	6.5	15.9	4
50	152	19.0	1.6	92	25	78	62.0	17.5	60.3	-	64	25	25	625	120.6	8.0	19.0	4
65	178	22.2	1.6	105	29	90	74.7	19.0	73.0	-	70	29	29	755	139.7	8.0	19.0	4
80	190	23.8	1.6	127	30	108	90.7	20.5	88.9	-	70	30	30	915	152.4	9.5	19.0	8
90	216	23.8	1.6	140	32	122	103.4	-	101.6	-	71	32	32	1040	177.8	9.5	19.0	8
100	229	23.8	1.6	157	33	135	116.1	-	114.3	-	76	33	33	1170	190.5	11.0	19.0	8
125	254	23.8	1.6	186	37	164	143.8	-	141.3	-	89	37	37	1450	215.9	11.0	22.2	8
150	279	25.4	1.6	216	40	192	170.7	-	168.3	-	89	40	40	1710	241.3	12.5	22.2	8
200	343	28.6	1.6	270	44	246	221.5	-	219.1	-	102	44	44	2220	293.4	12.5	22.2	8
250	406	30.2	1.6	324	49	305	276.4	-	273.0	-	102	49	49	2770	362.0	12.5	25.4	12
300	483	31.8	1.6	381	56	365	327.2	-	323.9	-	114	56	56	3280	431.8	12.5	25.4	12
350	533	34.9	1.6	413	57	400	359.2	-	355.6	-	127	57	79	3600	476.2	12.5	28.6	12
400	597	36.5	1.6	470	64	457	410.5	-	406.4	-	127	64	87	411.0	539.8	12.5	28.6	16
450	635	39.7	1.6	533	68	505	461.8	-	457.2	-	140	68	97	4620	577.8	12.5	31.8	16
500	698	42.9	1.6	584	73	559	513.1	-	508.0	-	144	73	103	5140	635.0	12.5	31.8	20
600	813	47.6	1.6	692	83	664	616.0	-	609.6	-	152	83	111	6160	749.3	12.5	34.9	20

DIMENSIONS OF CLASS 300 FLANGS AS PER ANSI B 16.5

N.B.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	T	No. of Holes
15	95	14.3	1.6	35	22	38	22.4	9.5	21.3	23.5	52	16	22	23.0	66.7	3.0	15.9	4
20	117	15.9	1.6	43	25	48	27.7	11.0	26.7	29.0	57	16	25	28.0	82.6	3.0	19.0	4
25	124	17.5	1.6	51	27	54	34.5	12.5	33.4	36.0	62	17	27	35.0	88.9	3.0	19.0	4
32	133	19.0	1.6	64	27	64	43.2	14.5	42.2	44.5	65	21	27	43.5	98.4	5.0	19.0	4
40	156	20.6	1.6	73	30	70	49.5	16.0	48.3	50.5	68	22	30	50.0	114.3	6.5	22.2	4
50	165	22.2	1.6	92	33	84	62.0	17.5	60.3	63.5	70	29	33	62.5	127.0	8.0	19.0	8
65	190	25.4	1.6	105	38	100	74.7	19.0	73.0	76.0	76	32	38	75.5	149.2	8.0	22.2	8
80	210	28.6	1.6	127	43	117	90.7	20.5	88.9	92.0	79	32	43	91.5	168.3	9.5	22.2	8
90	229	30.2	1.6	140	44	133	103.4	-	101.6	105.0	81	37	44	104	184.2	9.5	22.2	8
100	254	31.8	1.6	157	48	146	116.1	-	114.3	118.0	86	37	48	117.0	200.0	11.0	22.2	8
125	279	34.9	1.6	186	51	178	143.8	-	141.3	145.0	98	43	51	145.0	235.0	11.0	22.2	8
150	318	36.5	1.6	216	52	206	170.7	-	168.3	171.0	98	46	52	171.0	269.9	12.5	22.2	12
200	381	41.3	1.6	270	62	260	221.5	-	219.1	222.0	111	51	62	222.0	330.2	12.5	25.4	12
250	444	47.6	1.6	324	67	321	276.4	-	273.0	276.0	117	56	95	277.0	387.4	12.5	28.6	16
300	521	50.8	1.6	381	73	375	327.2	-	323.9	329.0	130	60	102	328.0	450.8	12.5	31.8	16
350	584	54.0	1.6	413	76	425	359.2	-	355.6	360.0	143	64	111	360.0	514.4	12.5	31.8	20
400	648	57.2	1.6	470	83	483	410.5	-	406.4	411.0	146	68	121	411.0	571.5	12.5	34.9	20
450	711	60.3	1.6	533	89	533	461.8	-	457.2	462.0	159	70	130	462.0	628.6	12.5	34.9	24
500	775	63.5	1.6	584	95	587	513.1	-	508.0	513.0	162	73	140	514.0	685.8	12.5	34.9	24
600	914	69.8	1.6	692	106	702	616.0	-	609.6	614.0	168	83	152	616.0	812.8	12.5	41.3	24

- 1) All dimensions are in Millimeters
2) Flanges except Lap Joint will be furnished with (1.6) Raised Face, which is included in "Thickness (C)" and "Length through Hub (Y)".

Weight of Flanges

150 LB PIPE FLANGES

N.B.		APPROXIMATE IN Kg				
Inches	Metric	Slip-on and Screwed	Socket Weld	Weld Neck	Blind	Lap Joint
1/2	15	.50	.50	.82	.82	.50
3/4	20	.91	.91	.82	.91	.91
1	25	.91	.91	1.00	1.00	.95
1 1/4	32	1.27	1.27	1.36	1.27	1.27
1 1/2	40	1.36	1.36	1.81	1.36	1.36
2	50	2.27	2.27	2.72	2.27	2.27
2 1/2	65	3.63	3.63	4.08	3.18	3.63
3	80	4.08	4.08	4.54	4.08	4.08
3 1/2	90	5.00		5.44	5.90	5.00
4	100	5.90		6.80	7.71	5.90

N.B.		APPROXIMATE IN Kg				
Inches	Metric	Slip-on and Screwed	Weld Neck	Blind	Lap Joint	
5	125	6.80	8.62	9.07	6.80	
6	150	8.62	10.89	11.79	8.62	
8	200	13.61	17.69	20.41	13.61	
10	250	19.50	23.59	31.75	19.50	
12	300	29.03	36.29	49.90	29.03	
14	350	35.38	49.90	59.42	47.63	
16	400	42.18	63.50	77.11	63.50	
18	450	54.43	68.04	94.80	72.57	
20	500	72.12	81.65	123.40	88.45	
24	600	95.25	117.93	186.40	124.74	

300 LB PIPE FLANGES

N.B.		APPROXIMATE IN Kg				
Inches	Metric	Slip-on and Screwed	Socket Weld	Weld Neck	Blind	Lap Joint
1/2	15	.68	.68	.91	.91	.68
3/4	20	1.13	1.13	1.36	1.36	1.13
1	25	1.36	1.36	1.81	1.81	1.36
1 1/4	32	2.04	2.04	2.49	2.72	2.04
1 1/2	40	2.95	2.95	3.18	3.18	2.95
2	50	3.18	3.18	3.63	3.63	3.18
2 1/2	65	4.54	4.54	5.44	5.44	4.54
3	80	5.90	5.90	7.26	7.26	5.90
3 1/2	90	7.26		9.07	9.53	7.26
4	100	9.53		11.34	12.25	9.53

N.B.		APPROXIMATE IN Kg				
Inches	Metric	Slip-on and Screwed	Weld Neck	Blind	Lap Joint	
5	125	11.79	15.42	15.88	11.79	
6	150	15.88	20.41	22.68	15.88	
8	200	24.49	31.75	36.74	24.49	
10	250	34.93	44.91	57.61	34.93	
12	300	49.90	64.41	83.46	63.50	
14	350	74.39	84.37	107.10	86.18	
16	400	99.79	111.60	139.30	113.40	
18	450	127.00	138.40	176.90	133.80	
20	500	147.40	171.50	223.20	167.80	
24	600	222.30	247.20	342.00	249.50	

600 LB PIPE FLANGES

N.B.		APPROXIMATE IN Kg				
Inches	Metric	Slip-on and Screwed	Socket Weld	Weld Neck	Blind	Lap Joint
1/2	15	1.27	1.27	1.36	.91	.68
3/4	20	1.36	1.36	1.59	1.36	1.13
1	25	1.59	1.59	1.81	1.81	1.36
1 1/4	32	2.04	2.04	2.27	2.72	2.04
1 1/2	40	2.95	2.95	3.63	3.63	2.95
2	50	3.63	3.63	4.54	4.54	3.18
2 1/2	65	5.44	5.44	6.35	6.30	4.54
3	80	6.80	6.80	8.16	9.07	5.90
3 1/2	90	9.53	-	11.79	13.15	7.26
4	100	14.97	-	16.78	18.06	9.53

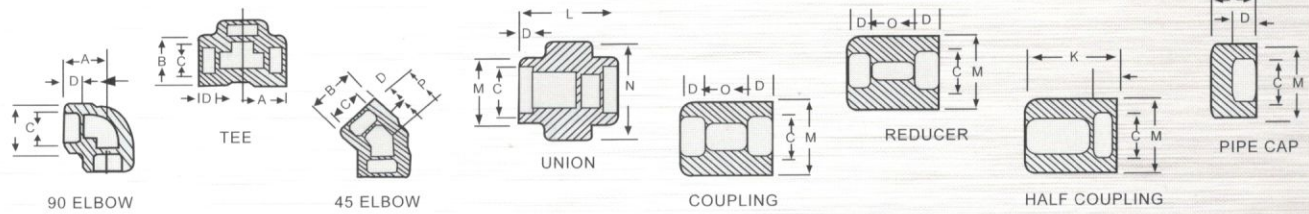
N.B.		APPROXIMATE IN Kg				
Inches	Metric	Slip-on and Screwed	Weld Neck	Blind	Lap Joint	
5	125	28.58	30.84	30.84	28.58	
6	150	36.29	36.74	39.01	36.29	
8	200	44.00	50.80	63.05	44.00	
10	250	80.29	88.45	108.90	88.45	
12	300	97.52	102.50	133.80	108.80	
14	350	117.50	157.40	171.50	131.50	
16	400	166.00	218.20	239.00	181.40	
18	450	215.50	251.70	301.60	212.70	
20	500	277.60	313.00	387.80	285.80	
24	600	370.10	443.20	533.00	392.80	

1500 LB PIPE FLANGES

N.B.		APPROXIMATE IN Kg				
Inches	Metric	Slip-on and Screwed	Socket Weld	Weld Neck	Blind	Lap Joint
1/2	15	1.27	1.27	1.36	.91	.68
3/4	20	1.36	1.36	1.59	1.36	1.13
1	25	1.59	1.59	1.81	1.81	1.36
1 1/4	32	2.04	2.04	2.27	2.72	2.04
1 1/2	40	2.95	2.95	3.63	3.63	2.95
2	50	3.63	3.63	4.54	4.54	3.18
2 1/2	65	5.44	5.44	6.35	6.30	4.54
3	80	6.80	6.80	8.16	9.07	5.90
3 1/2	90	9.53	-	11.79	13.15	7.26
4	100	14.97	-	16.78	18.06	9.53

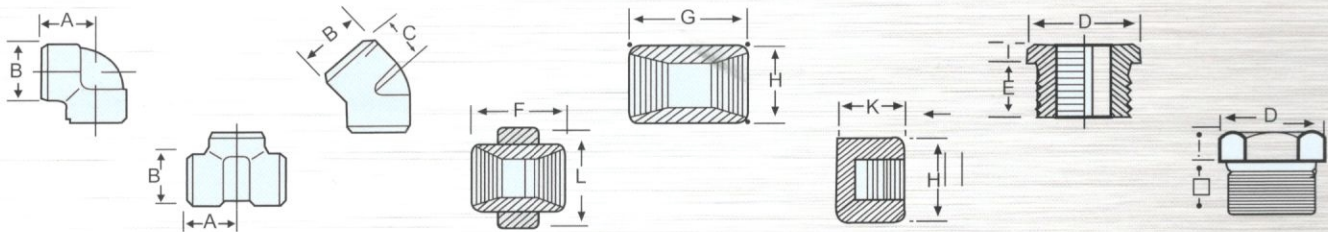
N.B.		APPROXIMATE IN Kg				
Inches	Metric	Slip-on and Screwed	Weld Neck	Blind	Lap Joint	
6	150	74.39	74.39	72.12	74.39	
8	200	117.00	123.80	137.00	117.00	
10	250	197.80	205.90	230.00	220.00	
12	300	302.60	313.00	351.50	280.00	
14	350	--	426.40	442.30	403.70	
16	400	567.00	589.70	521.70	--	
18	450	--	737.10	593.80	669.00	
20	500	--	929.90	1009.30	805.20	
24	600	--	1508.30	1644.40	1281.50	

SOCKET WELD FITTING TO ANSI B-16.11



NOM		3000 LBS.									COMMON FACTORS				6000 LBS.				
BORE	O.D.	A max.	B max.	K	J	L	M	N	P	Q	C min.	D min.	O min.	O max.	A	B	M	K	N
1/8"	10.3	22	18.5	26	16	40	17.3	32	15	10	10.7	10	5	8	22	22	20	25	46
1/4"	13.7	22	22	26	18	43	21.2	32	15	10	14.1	10	5	8	27	25	24	25	51
3/8"	17.2	25	25	26	19	48	25.4	36	16.5	10	17.6	10	3	9	27	28	28	26	60
1/2"	21.3	27	32	30	21	51	31	41	16.5	10	21.7	10	6	13	31	34	34	31	72
3/4"	26.7	34	38	36	24	57	37	50	19.5	13	27	13	6	13	37	42	41	35	80
1"	33.4	37	46	40	25	64	45.2	60	22.5	13	33.8	13	9	17	42	50	50	40	94
1 1/4"	42.2	42	56	40	29	70	55	70	22.5	13	42.6	13	9	17	47	59	58	41	100
1 1/2"	48.3	47	62	40	30	79	61.4	78	24	13	48.7	13	9	17	53	67	66	43	122
2"	60.3	56	75	52	37	89	75	95	29	13	61.2	16	15	23	59	84	83	55	-
2 1/2"	73.02	60	92	52	48	114	91.3	125	32	16	73.8	16	14	24	-	102	-	56	-
3"	89.00	76	110	52	51	127	108.8	140	35	16	89.8	16	14	24	-	121	-	58	-
4"	114.50	88	137	58	-	150	136.9	-	32	19	115.5	19	14	24	-	152	-	64	-

FORGED SCREWED FITTING TO ANSI B-16.11 3000/6000 LBS. THREADED TO ASA B 2.1



NOM BORE	PIPE O.D.	3000 LBS					COMMON FACTORS							6000 LBS						
		A	B	C	G	H	K	D	E	F	I	J	L	A	B	C	G	H	K	
1/8"	10.3	21	22	17	32	16	19	11	10	40	-	6	-	25	25	19	32	22	-	
1/4"	137	25	25	19	35	19	25	16	11	43	3	6	32	29	33	22	35	25	27	
3/8"	17.2	29	33	22	38	22	25	17.5	13	48	4	8	38	33	38	25	38	32	27	
1/2"	21.3	33	38	25	48	29	32	22	15	51	5	8	46	38	46	29	48	38	33	
3/4"	26.7	38	46	29	51	35	37	27	16	57	6	10	51	44	56	33	51	44	38	
1"	334	44	56	33	60	44	41	35	19	64	6	10	60	51	62	35	60	57	43	
1 1/4"	42.2	51	62	35	67	57	44	44.5	21	70	7	14	72	60	75	43	67	64	46	
1 1/2"	483	60	75	43	79	64	44	51	21	79	8	16	80	64	84	44	79	76	48	
2 "	60.3	64	84	45	86	76	48	63.5	22	88	9	17	94	83	102	52	86	92	51	
2 1/2"	73.02	83	102	52	92	92	60	76	27	118	10	21	122	95	121	64	92	108	64	
3 "	89.0	95	121	64	108	108	65	89	29	121	10	25	140	106	146	79	108	127	68	
4"	114.5	114	152	79	121	140	68	117.5	32	150	13	25	180	114	152	79	121	159	75	

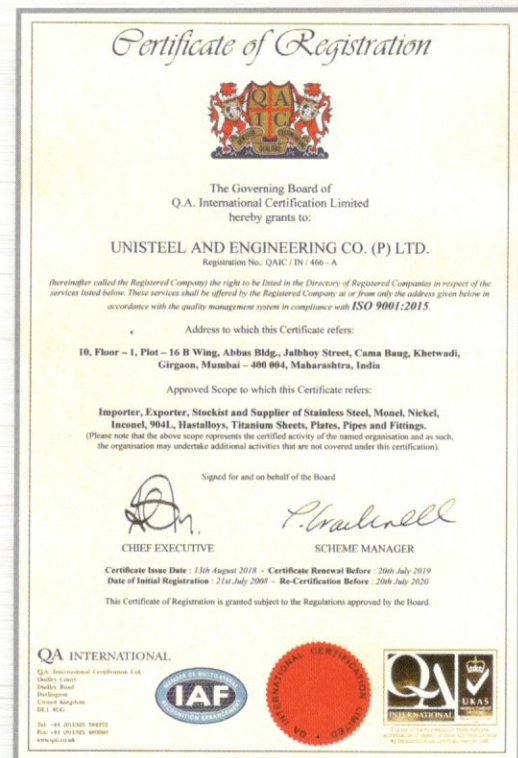
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Our Valueable Clients



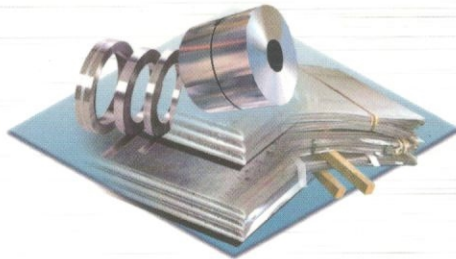
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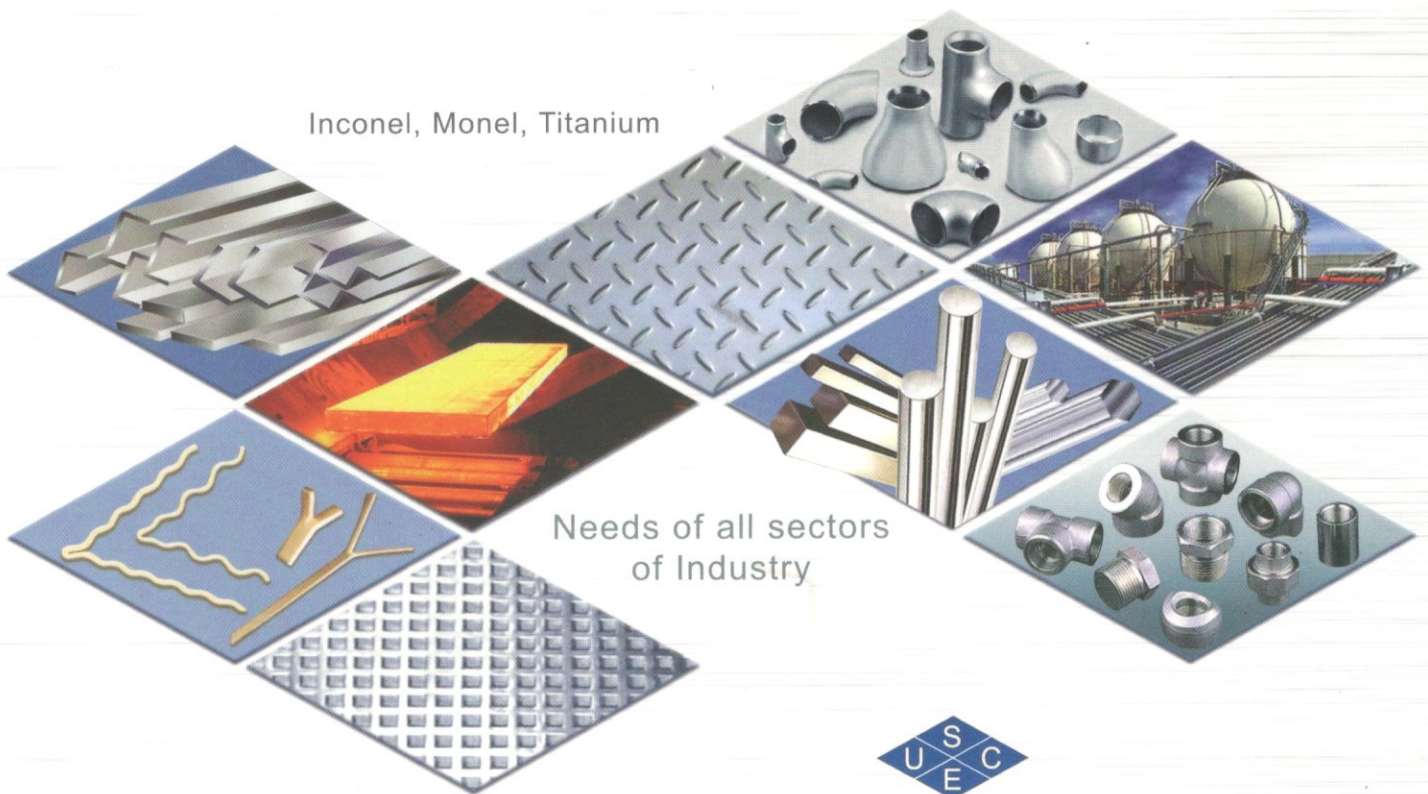


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