

STAINLESS STEEL PIPE											
Nominal Pipe Size		OD	Schedule 10S			Schedule 40S			Schedule 80S		
Metric	Imperial	Metric	Wall	Weight	Pressure	Wall	Weight	Pressure	Wall	Weight	Pressure
	inches	mm	mm	kgs / mtr	PSI	mm	kgs / mtr	PSI	mm	kgs / mtr	PSI
6	1/8 "	10.29	1.24	0.282		1.73	0.372		2.41	0.468	
8	1/4 "	13.72	1.65	0.498		2.24	0.644		3.02	0.797	
10	3/8 "	17.14	1.65	0.643		2.31	0.862		3.20	1.10	
15	1/2 "	21.34	2.11	1.02	2494	2.77	1.29	3350	3.73	1.62	
20	3/4 "	26.67	2.11	1.30	1958	2.87	1.71	2712	3.91	2.19	
25	1 "	33.40	2.77	2.13	2059	3.38	2.54	2552	4.55	3.23	
32	1.1/4 "	42.16	2.77	2.74	1610	3.56	3.45	2103	4.85	4.46	
40	1.1/2 "	48.26	2.77	3.16	1392	3.68	4.12	1885	5.08	5.41	
50	2 "	60.32	2.77	3.99	1117	3.91	5.53	1581	5.54	7.48	
65	2.1/2 "	73.02	3.05	5.35	1001	5.16	8.78	1740	7.01	11.42	
80	3 "	88.90	3.05	6.56	827	5.49	11.50	1508	7.62	15.28	
90	3.1/2 "	101.60	3.05	7.54	711	5.74	13.80	1378	8.08	18.65	
100	4 "	114.30	3.05	8.51	638	6.02	16.30	1276	8.56	22.34	2567
125	5 "	139.80	3.40	11.80	566	6.55	22.10	1117	9.53	30.98	2306
150	6 "	168.28	3.40	14.10	479	7.11	28.70	1015	10.97	42.60	2233
200	8 "	219.08	3.76	20.00	406	8.18	42.50	899	12.70	64.70	1987
250	10 "	273.05	4.19	27.80	363	9.27	60.30	812	12.70	81.63	1581
300	12 "	323.85	4.57	36.00	334	9.52	73.80	696	12.70	97.56	1320
350	14 "	355.60	4.78	41.40	319	* 9.52	81.33	885	* 12.70	107.50	1204
400	16 "	406.40	4.78	47.30	276	* 9.52	93.27	769	* 12.70	123.43	1044
450	18 "	457.20	4.78	53.30	247	* 9.52	105.16	682	* 12.70	139.36	928
500	20 "	508.00	5.54	68.60	319	* 9.52	117.15	609	* 12.70	155.24	827
550	22 "	558.80	5.54	75.60		* 9.52	129.13		* 12.70		
600	24 "	609.60	6.35	94.50	305	* 9.52	141.12	508	* 12.70		696
650	26 "	660.40	* 7.92		392	* 9.52		479	* 12.70		638
700	28 "	711.20	* 7.92		363	* 9.52		435	* 12.70		595
750	30 "	762.00	* 7.92		334	* 9.52		406	* 12.70		551
800	32 "	812.80	* 7.92		319	* 9.52		377	* 12.70		522
850	34 "	863.60	* 7.92		290	* 9.52		363	* 12.70		479
900	36 "	914.40	* 7.92		276	* 9.52		334	* 12.70		464
950	38 "	965.20	* 7.92		261	* 9.52		319	* 12.70		435
1000	40 "	1016.00	* 7.92		247	* 9.52		305	* 12.70		406

* there is no internationally recognised standard for these sizes . These are based on mill standard only .

- pressure ratings working pressure

SCHEDULE 10S BUTTWELD FITTINGS

Nominal Pipe Size		OD	Weights and Dimensions to ANSI B16.9								
Metric	Imperial	Metric	Wall	Deg LR Elb	90 Deg SR Elbow	45 Deg Elbo	180 Deg Elbow			Cap	
	inches	mm	mm	CLR	CLR	Weight	CLR	CLR	Weight	Weight	Weight
15	1/2 "	21.34	2.11	1.50			0.62	3.00	0.118	0.065	0.028
20	3/4 "	26.67	2.11	1.50			0.62	3.00	0.118	0.092	0.035
25	1 "	33.40	2.77	1.50	1.00	0.083	0.88	3.00	0.268	0.204	0.087
32	1.1/4 "	42.16	2.77	1.88	1.25	0.134	1.00	3.75	0.426	0.327	0.110
40	1.1/2 "	48.26	2.77	2.25	1.50	0.186	1.12	4.50	0.580	0.457	0.127
50	2 "	60.32	2.77	3.00	2.00	0.313	1.38	6.00	0.989	0.630	0.165
65	2.1/2 "	73.02	3.05	3.75	2.50	0.524	1.75	7.50	1.651	1.010	0.232
80	3 "	88.90	3.05	4.50	3.00	0.772	2.00	9.00	2.431	1.370	0.367
90	3.1/2 "	101.60	3.05	5.25	3.50	1.030	2.25	10.50	3.256	2.150	0.594
100	4 "	114.30	3.05	6.00	4.00	1.330	2.50	12.00	4.190	3.480	0.993
125	5 "	139.80	3.40	7.50	5.00	2.310	3.12	15.00	7.256	4.760	1.390
150	6 "	165.20	3.40	9.00	6.00	3.310	3.75	18.00	10.431	8.460	2.380
200	8 "	216.30	3.76	12.00	8.00	6.360	5.00	24.00	20.135	14.200	4.140
250	10 "	267.40	4.19	15.00	10.00	11.100	6.25	30.00	35.010	21.600	6.390
300	12 "	318.50	4.57	18.00	12.00	17.200	7.50	36.00	53.966	27.300	7.980
350	14 "	355.60	4.78	21.00	14.00	23.100	8.75	42.00		33.600	10.000
400	16 "	406.40	4.78	24.00	16.00	30.200	10.00	48.00		47.300	12.800
450	18 "	457.20	4.78	27.00	18.00	38.200	11.25	54.00		61.000	18.500
500	20 "	508.00	5.54	30.00	20.00	54.700	12.50	60.00		73.800	
550	22 "	558.80	5.54	33.00	22.00	66.200	13.50	66.00		93.500	30.100
600	24 "	609.60	6.35	36.00	24.00	90.400	15.00	72.00			
750	30 "	762.00	* 7.92	45.00	30.00		18.50				

SCHEDULE 40S BUTTWELD FITTINGS

Nominal Pipe Size		OD	Weights and Dimensions to ANSI B16.9								
Metric	Imperial	Metric	Wall	Deg LR Elb	90 Deg SR Elbow	45 Deg Elbo	180 Deg Elbow			Cap	
	inches	mm	mm	CLR	CLR	Weight	CLR	CLR	Weight	Weight	Weight
15	1/2 "	21.34	2.77	1.50			0.62	3.00			
20	3/4 "	26.67	2.87	1.50			0.62	3.00			
25	1 "	33.40	3.38	1.50	1.00	0.100	0.88	3.00	0.156	0.244	0.106
32	1.1/4 "	42.16	3.56	1.88	1.25	0.169	1.00	3.75	0.207	0.412	0.141
40	1.1/2 "	48.26	3.68	2.25	1.50	0.242	1.12	4.50	0.307	0.596	0.169
50	2 "	60.32	3.91	3.00	2.00	0.434	1.38	6.00	0.519	0.872	0.234
65	2.1/2 "	73.02	5.16	3.75	2.50	0.860	1.75	7.50	0.735	1.660	0.393
80	3 "	88.90	5.49	4.50	3.00	1.350	2.00	9.00	1.300	1.900	0.660
90	3.1/2 "	101.60	5.74	5.25	3.50	1.890	2.25	10.50	2.730	4.130	1.170
100	4 "	114.30	6.02	6.00	4.00	2.560	2.50	12.00	4.070	6.550	1.910
125	5 "	139.80	6.55	7.50	5.00	4.340	3.12	15.00	5.650	9.730	2.900
150	6 "	168.30	7.11	9.00	6.00	6.760	3.75	18.00	7.670	18.000	5.190
200	8 "	219.08	8.18	12.00	8.00	13.600	5.00	24.00	13.000	30.800	9.150
250	10 "	273.05	9.27	15.00	10.00	24.000	6.25	30.00	19.900	44.300	13.300
300	12 "	323.85	9.52	18.00	12.00	35.300	7.50	36.00	40.300	53.700	15.900
350	14 "	355.60	* 9.52	21.00	14.00	45.400	8.75	42.00	70.800	66.300	20.000
400	16 "	406.40	* 9.52	24.00	16.00	59.400	10.00	48.00	111.440	84.100	25.600
450	18 "	457.20	* 9.52	27.00	18.00	75.400	11.25	54.00		104.000	31.900
500	20 "	508.00	* 9.52	30.00	20.00	93.300	12.50	60.00		126.000	
550	22 "	558.80	* 9.52	33.00	22.00	113.000	13.50	66.00		140.000	45.100
600	24 "	609.60	* 9.52	36.00	24.00	135.000	15.00	72.00			
750	30 "	762.00	* 9.52	45.00	30.00		18.50				

STANDARD PIPE THREAD SPECIFICATIONS					
Nominal Pipe Size				BSP	
Metric	Imperial	TPI	Pitch	Pipe OD	Pitch
6	1/8 "	27.0	0.37040	0.405	
8	1/4 "	18.0	0.05556	0.540	
10	3/8 "	18.0	0.05556	0.675	
15	1/2 "	14.0	0.07143	0.840	0.07143
20	3/4 "	14.0	0.07143	1.050	0.07143
25	1 "	11.5	0.86960	1.315	0.09091
32	1.1/4 "	11.5	0.08696	1.660	0.09091
40	1.1/2 "	11.5	0.08696	1.900	0.09091
50	2 "	11.5	0.08696	2.375	0.09091
65	2.1/2 "	8.0	0.12500	2.875	0.09091
80	3 "	8.0	0.12500	3.500	0.09091
90	3.1/2 "	8.0	0.12500	4.000	0.09091
100	4 "	8.0	0.12500	4.500	0.09091

DIMENSIONAL TOLERANCES BUTTWELD FITTINGS					
All Fittings			90 Deg Elbows	Tees	Caps
Nominal Pipe Size mm	Outside Dia at	Wall Thickness Bevel OD	Centre to end	Centre to end	Back to Face
15 NB to 65 NB	+ 0.06 - 0.03	Not less			+ 0.12 - 0.12
80 NB to 100 NB	+ 0.06 - 0.06	than 0.88	+ 0.06 - 0.06	+ 0.06 - 0.06	
125 NB to 200 NB	+ 0.09 - 0.06	of nominal			+ 0.25 - 0.25
250 NB to 450 NB		thickness	+ 0.09 - 0.09	+ 0.09 - 0.09	
500 NB to 600 NB	+ 0.25 - 0.19		+ 0.12 - 0.12	+ 0.12 - 0.12	+ 0.38
650 NB to 750 NB			+ 0.19 - 0.19	+ 0.19 - 0.19	- 0.38

BUTTWELD FITTINGS

Weights and Dimensions to ANSI B16.9

Nominal Pipe Sizes				Concentric / Eccentric Reducer			
OD	ID		OD	ID	length (inch)	weight Sch10S	weight Sch40S
20 x	15		3/4 " x	1/2 "	1.5	0.043	0.059
25 x	15 / 20		1 " x	1/2 " , 3/4 "	2.0	0.086	0.105
32 x	15 / 20 / 25		1.1/4 " x	1/2 " , 3/4 " , 1 "	2.0	0.116	0.120
40 x	15 / 20 / 25 / 32		1.1/2 " x	1/2 " , 3/4 " , 1 " , 1.1/4 "	2.5	0.184	0.243
50 x	20 / 25 / 32 / 40		2 " x	3/4 " , 1 " , 1.1/4 " , 1.1/2 "	3.0	0.233	0.322
65 x	25 / 32 / 40 / 50		2.1/2 " x	1 " , 1.1/4 " , 1.1/2 " , 2 "	3.5	0.388	0.661
80 x	32 / 40 / 50 / 65		3 " x	1.1/4 " , 1.1/2 " , 2 " , 2.1/2 "	3.5	0.449	0.783
90 x	32 / 40 / 50 / 65 / 80		3.1/2 " x	1.1/4 " , 1.1/2 " , 2 " , 2.1/2 " , 3 "	4.0	0.588	1.109
100 x	40 / 50 / 65 / 80 / 90		4 " x	1.1/2 " , 2 " , 2.1/2 " , 3 " , 3.1/2 "	4.0	0.665	1.270
125 x	50 / 65 / 80 / 90 / 100		5 " x	2 " , 2.1/2 " , 3 " , 3.1/2 " , 4 "	5.0	1.220	2.270
150 x	50 / 65 / 80 / 90 / 100 / 125		6 " x	2 " , 2.1/2 " , 3 " , 3.1/2 " , 4 " , 5 "	5.5	1.650	3.300
200 x	90 / 100 / 125 / 150		8 " x	3.1/2 " , 4 " , 5 " , 6 "	6.0	2.570	5.400
250 x	100 / 125 / 150 / 200		10 " x	4 " , 5 " , 6 " , 8 "	7.0	4.140	8.780
300 x	125 / 150 / 200 / 250		12 " x	5 " , 6 " , 8 " , 10 "	8.0	6.310	12.700
350 x	150 / 200 / 250 / 300		14 " x	6 " , 8 " , 10 " , 12 "	13.0	12.100	23.600
400 x	200 / 250 / 300 / 350		16 " x	8 " , 10 " , 12 " , 14 "	14.0	15.200	29.600
450 x	250 / 300 / 350 / 400		18 " x	10 " , 12 " , 14 " , 16 "	15.0	17.600	34.200
500 x	300 / 350 / 400 / 450		20 " x	12 " , 14 " , 16 " , 18 "	20.0	31.700	53.500
600 x	350 / 400 / 450 / 500		24 " x	14 " , 16 " , 18 " 20 "	20.0	40.700	60.300