

PIPE FITTINGS



STEEL BUTT WELD FITTINGS

STANDARD	GRADE	C (%)	Si (%)	Mn (%)	P (%)	S (%)	Min Yield Point (Mpa)	Tensile Strength (Mpa)
ASTM A234	GRADE A	< 0.25					206	330
	GRADE B	< 0.30					241	413



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PIPE FITTINGS

STEEL ELBOW

ELBOW SIZE		OUTSIDE DIAMETER	90° LONG RADIUS				90° SHORT RADIUS				45° LONG RADIUS			
			WALL THICKNESS (mm)				WALL THICKNESS (mm)				WALL THICKNESS (mm)			
			WEIGHT (kg)				WEIGHT (kg)				WEIGHT (kg)			
mm	in	mm	SGP	SCH 40	SCH 80	SCH 160	SGP	SCH 40	SCH 80	SCH 160	SGP	SCH 40	SCH 80	SCH 160
15	1/2	21.3	2.80	2.77	3.73	4.78								
			0.08	0.08	0.10	0.12								
20	3/4	26.7	2.80	2.87	3.91	5.56								
			0.10	0.11	0.14	0.13								
25	1	33.4	3.20	3.38	4.55	6.35	3.20	3.38	4.55	6.35	3.20	3.38	4.55	6.35
			0.15	0.16	0.20	0.25	0.10	0.11	0.14	0.17	0.08	0.08	0.10	0.13
32	1 1/4	42.2	3.50	3.56	4.85	6.35	3.50	3.56	4.85	6.35	3.50	3.56	4.85	6.35
			0.26	0.26	0.35	0.42	0.17	0.18	0.23	0.28	0.13	0.13	0.18	0.21
40	1 1/2	48.3	3.50	3.68	5.08	7.14	3.50	3.68	5.08	7.14	3.50	3.68	5.08	7.14
			0.35	0.37	0.50	0.65	0.24	0.25	0.33	0.43	0.18	0.19	0.25	0.33
50	2	60.3	3.80	3.91	5.54	8.74	3.80	3.91	5.54	8.74	3.80	3.91	5.54	8.74
			0.64	0.66	0.90	1.33	0.43	0.44	0.60	0.89	0.32	0.33	0.45	0.67
65	2 1/2	73.0	4.20	5.16	7.01	9.53	4.20	5.16	7.01	9.53	4.20	5.16	7.01	9.53
			1.12	1.29	1.79	2.33	0.75	0.91	1.19	1.49	0.60	0.69	0.90	1.17
80	3	88.9	4.20	5.49	7.62	11.13	4.20	5.49	7.62	11.13	4.20	5.49	7.62	11.13
			1.58	2.04	2.74	3.83	1.05	1.36	1.83	2.55	0.79	1.02	1.37	1.92
100	4	114.3	4.50	6.02	8.56	13.49	4.50	6.02	8.56	13.49	4.50	6.02	8.56	13.49
			2.91	3.84	5.36	8.02	1.94	2.56	3.58	5.35	1.46	1.92	2.68	4.01
125	5	141.3	4.50	6.55	9.53	15.88	4.50	6.55	9.53	15.88	4.50	6.55	9.53	15.88
			4.49	6.48	9.13	14.70	2.99	4.32	6.09	9.79	2.25	3.24	4.57	7.35
150	6	168.3	4.50	7.11	10.97	18.26	5.00	7.11	10.97	18.26	5.00	7.11	10.97	18.26
			7.09	9.94	15.00	24.20	4.73	6.63	10.00	16.20	3.55	4.79	7.50	12.10
200	8	219.1	5.00	8.18	12.70	23.01	5.30	8.18	12.70	23.01	5.30	8.18	12.70	23.01
			14.40	20.10	30.50	53.20	9.61	13.40	20.30	35.50	7.20	10.10	15.30	26.60
250	10	273.1	6.60	9.27	15.09	28.58	6.60	9.27	15.09	28.58	6.60	9.27	15.09	28.58
			25.40	35.40	57.00	103.00	16.90	23.60	38.00	68.60	12.70	17.70	28.50	51.50
300	12	323.9	6.60	10.31	17.48	33.32	6.60	10.31	17.48	33.32	6.60	10.31	17.48	33.32
			38.10	57.00	94.00	171.00	25.40	38.00	63.00	114.00	19.00	28.50	47.00	85.50
350	14	355.6	7.90	11.13	19.05	35.72	7.90	11.13	19.05	35.72	7.90	11.13	19.05	35.72
			56.70	79.10	133.00	236.00	37.80	53.00	89.00	158.00	28.40	40.10	66.50	118.00
400	16	406.4	7.90	12.70	21.44	40.49	7.90	12.70	21.44	40.49	7.90	12.70	21.44	40.49
			74.30	118.00	195.00	350.00	49.50	79.00	130.00	234.00	37.20	59.00	97.50	175.00
450	18	457.2	7.90	14.27	23.88	45.24	7.90	14.27	23.88	45.24	7.90	14.27	23.88	45.24
			94.20	169.00	275.00	495.00	62.80	113.00	183.00	330.00	47.10	84.50	138.00	247.00
500	20	508.0	7.90	15.09	26.19	50.01	7.90	15.09	26.19	50.01	7.90	15.09	26.19	50.01
			116.00	220.00	373.00	676.00	77.70	147.00	249.00	451.00	58.30	110.00	187.00	338.00
550	22	558.0			28.58	53.98			28.58	53.98			28.58	53.98
				267.00	493.00	886.00		178.00	329.00	591.00			257.00	443.00
600	24	609.6		17.48	30.96	59.54		17.48	30.96	59.54		17.48	30.96	59.54
				366.00	636.00	1160.00		244.00	424.00	773.00		183.00	318.00	580.00



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PIPE FITTINGS

STEEL TEE

SIZE	SGP	SCH 40	SCH 80	SCH 160
1/2 x 1/2	0.09	0.09	0.11	0.12
3/4 x 3/4	0.13	0.13	0.17	0.21
3/4 x 1/2	0.12	0.12	0.16	0.19
1 x 1	0.24	0.25	0.32	0.41
1 x 3/4	0.23	0.24	0.30	0.38
1 x 1/2	0.22	0.23	0.29	0.37
1 1/4 x 1 1/4	0.42	0.43	0.56	0.69
1 1/4 x 1	0.39	0.40	0.53	0.65
1 1/4 x 3/4	0.37	0.37	0.48	0.62
1 1/4 x 1/2	0.36	0.36	0.47	0.59
1 1/2 x 1 1/2	0.58	0.10	0.81	1.07
1 1/2 x 1 1/4	0.56	0.59	0.78	1.01
1 1/2 x 1	0.53	0.56	0.74	0.97
1 1/2 x 3/4	0.51	0.53	0.70	0.92
1 1/2 x 1/2	0.49	0.51	0.67	0.90
2 x 2	0.86	0.88	1.20	1.78
2 x 1 1/2	0.80	0.82	1.11	1.63
2 x 1 1/4	0.77	0.79	1.07	1.56
2 x 1	0.73	0.75	1.01	1.50
2 x 3/4	0.70	0.71	0.98	1.45
2 1/2 x 2 1/2	1.42	1.74	2.28	2.86
2 1/2 x 2	1.31	1.56	2.06	2.64
2 1/2 x 1 1/2	1.25	1.51	1.98	2.48
2 1/2 x 1 1/4	1.22	1.48	1.94	2.42
2 1/2 x 1	1.18	1.36	1.80	2.36
3 x 3	1.87	2.41	3.25	4.55
3 x 2 1/2	1.79	2.41	3.07	4.23
3 x 2	1.68	2.12	2.85	4.02
3 x 1 1/2	1.62	2.06	2.77	3.87
3 x 1 1/4	1.60	2.02	2.74	3.80
4 x 4	3.13	4.12	5.77	8.50
4 x 3	2.92	3.83	5.33	7.92
4 x 2 1/2	2.84	3.71	5.15	7.56
4 x 2	2.72	3.53	4.94	7.34
4 x 1 1/2	2.66	3.48	4.83	7.23
5 x 5	4.53	6.54	9.20	14.80
5 x 4	4.30	6.13	8.63	13.70
5 x 3	4.08	5.83	8.19	13.00
5 x 2 1/2	4.00	5.71	8.01	12.80
5 x 2	3.90	5.58	7.92	12.50
6 x 6	6.84	9.58	14.50	23.30
6 x 5	6.45	9.08	13.60	21.90
6 x 4	6.23	8.67	13.00	20.80
6 x 3	6.01	8.38	12.60	20.10
6 x 2 1/2	5.92	8.36	12.50	19.80

SIZE	SGP	SCH 40	SCH 80	SCH 160
8 x 8	12.80	17.90	27.10	47.20
8 x 6	11.90	16.60	25.20	43.50
8 x 5	11.50	16.10	24.30	42.10
8 x 4	11.30	15.70	23.70	40.30
10 x 10	21.80	30.40	49.00	88.00
10 x 8	20.40	28.50	45.80	81.40
10 x 6	19.50	27.20	43.90	78.50
10 x 5	19.20	26.80	43.10	77.00
10 x 4	18.90	26.80	42.50	76.30
12 x 12	32.00	48.70	79.20	143.00
12 x 10	30.40	45.30	74.80	135.00
12 x 8	19.00	42.50	71.40	128.00
12 x 6	28.10	42.00	69.50	125.00
12 x 5	27.80	41.70	68.70	123.00
14 x 14	44.70	62.40	104.00	186.00
14 x 12	42.70	60.20	100.00	179.00
14 x 10	41.20	57.60	95.90	174.00
14 x 8	40.00	55.80	92.90	168.00
14 x 6	39.00	54.50	91.00	164.00
16 x 16	55.20	88.00	145.00	260.00
16 x 14	54.20	86.00	140.00	255.00
16 x 12	52.70	84.00	136.00	248.00
16 x 10	51.20	82.00	132.00	241.00
16 x 8	49.40	79.00	129.00	235.00
16 x 6	48.50	77.00	127.00	230.00
18 x 18	70.00	125.00	204.00	356.00
18 x 16	67.90	121.00	197.00	352.00
18 x 14	66.90	119.00	194.00	344.00
18 x 12	65.40	117.00	189.00	337.00
18 x 10	63.40	114.00	186.00	329.00
20 x 20	86.60	163.00	277.00	502.00
20 x 18	84.20	158.00	268.00	488.00
20 x 16	82.10	154.00	262.00	475.00
20 x 14	81.10	152.00	258.00	469.00
20 x 12	79.20	150.00	254.00	462.00
20 x 10	77.60	147.00	250.00	452.00
20 x 8	76.30	145.00	245.00	444.00
22 x 22	106.00	198.00	365.00	657.00
22 x 20	103.00	193.00	356.00	640.00
22 x 18	101.00	188.00	347.00	624.00
22 x 16	98.90	183.00	340.00	610.00
24 x 24	116.00	252.00	438.00	800.00
24 x 22	115.00	249.00	432.00	790.00
24 x 20	114.00	247.00	427.00	782.00
24 x 18	111.00	241.00	418.00	764.00



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STEEL REDUCER

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3/4 x 1/2	0.06	0.06	0.08	
1 x 3/4	0.11	0.12	0.15	0.19
1 x 1/2	0.10	0.11	0.14	0.17
1 1/4 x 1	0.16	0.16	0.21	0.25
1 1/4 x 3/4	0.15	0.15	0.19	0.23
1 1/4 x 1/2	0.13	0.14	0.18	
1 1/2 x 1 1/4	0.24	0.25	0.33	0.43
1 1/2 x 1	0.21	0.22	0.30	0.38
1 1/2 x 3/4	0.20	0.21	0.27	0.35
1 1/2 x 1/2	0.18	0.18	0.24	0.32
2 x 1 1/2	0.37	0.38	0.51	0.75
2 x 1 1/4	0.35	0.36	0.48	0.70
2 x 1	0.31	0.33	0.44	0.64
2 x 3/4	0.29	0.30	0.40	0.58
2 1/2 x 2	0.60	0.73	0.95	1.20
2 1/2 x 1 1/2	0.55	0.67	0.87	1.08
2 1/2 x 1 1/4	0.52	0.64	0.83	1.02
2 1/2 x 1	0.48	0.56	0.73	0.93
3 x 2 1/2	0.73	0.94	1.25	1.71
3 x 2	0.66	0.85	1.13	1.57
3 x 1 1/2	0.62	0.79	1.04	1.44
3 x 1 1/4	0.59	0.75	1.00	1.37
4 x 3	1.10	1.45	2.01	3.00
4 x 2 1/2	1.04	1.37	1.90	2.76
4 x 2	0.97	1.27	1.76	2.58
4 x 1 1/2	0.91	1.19	1.64	2.41
5 x 4	1.74	2.50	3.52	5.59
5 x 3	1.58	2.27	3.18	5.30
5 x 2 1/2	1.50	2.16	3.02	4.70
5 x 2	1.41	2.03	2.85	4.43
6 x 5	2.55	3.57	5.38	8.63
6 x 4	2.36	3.30	4.96	7.88
6 x 3	2.18	3.04	4.56	7.21
6 x 2 1/2	2.09	2.94	4.38	6.80
8 x 6	4.17	5.71	8.63	15.00
8 x 5	3.87	5.40	8.14	14.00
8 x 4	3.67	5.10	7.68	13.10

SIZE	SGP	SCH 40	SCH 80	SCH 160
10 x 8	6.87	9.58	15.40	27.50
10 x 6	6.32	8.78	14.20	25.10
10 x 5	6.06	8.42	14.50	23.90
10 x 4	5.80	8.20	14.00	22.60
12 x 10	9.97	14.70	24.80	44.60
12 x 8	9.29	13.70	22.70	41.00
12 x 6	8.69	12.80	21.40	38.00
12 x 5	8.39	12.60	20.60	36.40
14 x 12	21.20	29.50	49.80	88.50
14 x 10	19.70	27.40	46.10	81.60
14 x 8	18.30	25.40	42.20	74.70
14 x 6	16.90	23.60	39.10	68.30
16 x 14	25.90	41.10	67.70	121.00
16 x 12	24.10	39.20	65.00	116.00
16 x 10	22.40	36.80	60.80	108.00
16 x 8	21.70	34.50	56.60	99.90
18 x 16	31.50	56.20	91.40	165.00
18 x 14	29.80	53.00	86.40	155.00
18 x 12	27.70	51.70	83.00	149.00
18 x 10	27.10	48.40	78.50	140.00
20 x 18	47.00	88.40	150.00	
20 x 16	44.70	83.90	142.00	
20 x 14	42.40	79.60	136.00	233.00
20 x 12	40.80	76.90	130.00	
22 x 20	52.10	98.00	181.00	
22 x 18	49.50	93.20	172.00	
22 x 16	47.00	88.40	164.00	
22 x 14	45.30	83.60	156.00	
24 x 22	57.10	124.00	215.00	
24 x 20	54.80	119.00	206.00	
24 x 18	52.60	114.00	197.00	
24 x 16	50.40	109.00	185.00	



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