

Stainless Steel Butt Weld A-403 Fittings

TYPE 304/304L SCHEDULE 10S

ASTM A403, ASME SA 403/SA 403M
WALL THICKNESS ARE IN ACCORDANCE TO ANSI B36.10
DIMENSIONS ARE IN ACCORDANCE TO B16.9, B16.28 & MSS SP-43

NOMINAL PIPE SIZE (IN)	90° ELBOWS		45° L.R. ELBOWS	TEES	CAPS	STUB ENDS / MSS TYPE	
	LONG RADIUS	SHORT RADIUS				A	C
1/2	17.00		22.00	55.00	31.00	33.00	13.92
3/4	17.00		22.00	55.00	42.00	37.00	14.57
1	20.00	113.00	26.00	55.00	46.00	39.00	16.20
1 1/4	31.00	118.00	42.00	84.00	114.00	86.00	16.70
1 1/2	25.00	121.00	26.00	55.00	49.00	38.00	16.91
2	31.00	106.00	31.00	59.00	43.00	46.00	26.50
2 1/2	53.00	182.00	48.00	154.00	62.00	97.00	34.39
3	63.00	166.00	54.00	108.00	53.00	64.00	36.35
4	103.00	212.00	86.00	162.00	68.00	86.00	51.47
5	551.00	517.00	421.00	517.00	185.00	235.00	92.04
6	276.00	443.00	187.00	431.00	111.00	172.00	96.35
8	469.00	554.00	310.00	941.00	185.00	317.00	164.69
10	1,007.00		724.00	1,550.00	264.00	813.00	284.00
12	1,552.00		1,103.00	2,153.00	344.00	1,033.00	457.35

TYPE 316/316L SCHEDULE 10S

NOMINAL PIPE SIZE (IN)	90° ELBOWS		45° L.R. ELBOWS	TEES	CAPS	STUB ENDS / MSS TYPE	
	LONG RADIUS	SHORT RADIUS				A	C
1/2	22.00		28.00	68.00	44.00	43.00	17.94
3/4	22.00		28.00	68.00	59.00	50.00	19.05
1	26.00	154.00	32.00	68.00	64.00	50.00	21.71
1 1/4	43.00	155.00	54.00	117.00	160.00	108.00	23.38
1 1/2	31.00	160.00	31.00	74.00	70.00	49.00	26.00
2	38.00	141.00	38.00	76.00	55.00	55.00	33.00
2 1/2	66.00	240.00	60.00	191.00	80.00	119.00	46.60
3	82.00	224.00	73.00	141.00	74.00	79.00	47.50
4	132.00	277.00	111.00	207.00	89.00	108.00	70.41
5	704.00	680.00	572.00	701.00	246.00	296.00	123.90
6	352.00	554.00	228.00	560.00	148.00	213.00	129.74
8	600.00	726.00	394.00	1,255.00	246.00	407.00	209.70
10	1,310.00		897.00	2,153.00	344.00	1,082.00	406.93
12	1,966.00		1,448.00	2,952.00	461.00	1,358.00	645.25

Stainless Steel Butt Weld A-403 Fittings

TYPE 304/304L, 316/316L SCHEDULE 10S

ASTM A403, ASME SA 403/SA 403M
WALL THICKNESS ARE IN ACCORDANCE TO ANSI B36.10
DIMENSIONS ARE IN ACCORDANCE TO B16.9, B16.28 & MSS SP-43

Stainless Steel Type	Nominal Pipe Size	Reducers			Nominal Pipe Size	Reducers			Nominal Pipe Size	Reducers		
		Concentric	Eccentric	Tees		Concentric	Eccentric	Tees		Concentric	Eccentric	Tees
304/304L 316/316L	3/4 x 1/2	34.00	128.00	98.00	2 1/2 x 1	172.00	308.00	424.00	6 x 2	492.00	1,218.00	892.00
		43.00	166.00	129.00			221.00	424.00		529.00		640.00
304/304L 316/316L	1 x 1/2	49.00	119.00	98.00	2 1/2 x 1 1/2	135.00	271.00	406.00	6 x 2 1/2	431.00	1,218.00	892.00
		69.00	153.00	135.00			172.00	344.00		523.00		560.00
304/304L 316/316L	1 x 3/4	42.00	111.00	98.00	2 1/2 x 2	92.00	166.00	308.00	6 x 3	111.00	579.00	627.00
		53.00	145.00	135.00			123.00	203.00		400.00		153.00
304/304L 316/316L	1 1/4 x 3/4	107.00	160.00	246.00	3 x 1	98.00	492.00	301.00	6 x 4	84.00	359.00	627.00
		154.00	221.00	308.00			129.00	640.00		431.00		111.00
304/304L 316/316L	1 1/4 x 1	64.00	129.00	246.00	3 x 1 1/4	166.00	510.00	646.00	6 x 5	172.00	449.00	738.00
		86.00	172.00	308.00			234.00	652.00		763.00		221.00
304/304L 316/316L	1 1/2 x 1/2	74.00	322.00	154.00	3 x 1 1/2	49.00	221.00	209.00	8 x 3	996.00	1,710.00	1,962.00
		92.00	412.00	203.00			63.00	296.00		289.00		1365.00
304/304L 316/316L	1 1/2 x 3/4	55.00	271.00	154.00	3 x 2	48.00	172.00	172.00	8 x 4	365.00	1,054.00	1,808.00
		76.00	359.00	203.00			60.00	228.00		221.00		469.00
304/304L 316/316L	1 1/2 x 1	28.00	103.00	123.00	3 x 2 1/2	48.00	187.00	338.00	8 x 6	221.00	627.00	1,341.00
		39.00	145.00	154.00			63.00	241.00		443.00		262.00
304/304L 316/316L	1 1/2 x 1 1/4	37.00	123.00	215.00	4 x 1 1/2	105.00	455.00	492.00	10 x 6	551.00	1,419.00	3,567.00
		44.00	172.00	277.00			129.00	603.00		640.00		717.00
304/304L 316/316L	2 x 1/2	117.00	437.00	209.00	4 x 2	65.00	344.00	388.00	10 x 8	365.00	1,089.00	3,567.00
		160.00	572.00	295.00			77.00	448.00		492.00		476.00
304/304L 316/316L	2 x 3/4	86.00	308.00	148.00	4 x 2 1/2	74.00	363.00	400.00	12 x 6	910.00	1,845.00	4,920.00
		111.00	387.00	203.00			92.00	480.00		492.00		1,212.00
304/304L 316/316L	2 x 1	33.00	159.00	111.00	4 x 3	50.00	172.00	295.00	12 x 8	704.00	1,995.00	4,920.00
		44.00	207.00	154.00			66.00	228.00		400.00		924.00
304/304L 316/316L	2 x 1 1/4	43.00	228.00	178.00	5 x 3	338.00	467.00	763.00	12 x 10	517.00	1,186.00	4,920.00
		55.00	289.00	228.00			449.00	584.00		959.00		648.00
304/304L 316/316L	2 x 1 1/2	33.00	95.00	111.00	5 x 4	271.00	449.00	738.00				
		39.00	118.00	154.00			357.00	547.00		861.00		

Stainless Steel Butt Weld A-403 Fittings

TYPE 304/304L SCHEDULE 40S

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WALL THICKNESS ARE IN ACCORDANCE TO ANSI B36.10
DIMENSIONS ARE IN ACCORDANCE TO B16.9, B16.28 & MSS SP-43

NOMINAL PIPE SIZE (IN.)	90° ELBOWS		45° L.R. ELBOWS	TEES	CAPS	STUB ENDS
	LONG RADIUS	SHORT RADIUS				A
1/2	21.00		28.00	59.00	34.00	34.00
3/4	21.00		28.00	59.00	39.00	38.00
1	23.00	92.00	28.00	59.00	49.00	48.00
1 1/4	34.00	154.00	41.00	98.00	92.00	103.00
1 1/2	27.00	106.00	32.00	59.00	62.00	49.00
2	38.00	129.00	39.00	64.00	42.00	52.00
2 1/2	79.00	185.00	79.00	160.00	76.00	106.00
3	101.00	166.00	73.00	129.00	57.00	74.00
4	187.00	264.00	132.00	185.00	80.00	103.00
5	662.00	796.00	462.00	689.00	185.00	276.00
6	585.00	689.00	344.00	590.00	185.00	214.00
8	985.00	1,216.00	654.00	1,378.00	295.00	359.00

TYPE 316/316L SCHEDULE 40S

NOMINAL PIPE SIZE (IN.)	90° ELBOWS		45° L.R. ELBOWS	TEES	CAPS	STUB ENDS
	LONG RADIUS	SHORT RADIUS				A
1/2	27.00		37.00	74.00	46.00	43.00
3/4	27.00		37.00	74.00	58.00	52.00
1	31.00	129.00	37.00	74.00	66.00	60.00
1 1/4	46.00	209.00	50.00	129.00	123.00	132.00
1 1/2	36.00	145.00	42.00	74.00	85.00	63.00
2	50.00	178.00	50.00	80.00	59.00	65.00
2 1/2	103.00	258.00	103.00	203.00	105.00	134.00
3	134.00	228.00	95.00	160.00	77.00	91.00
4	246.00	363.00	172.00	240.00	11.00	130.00
5	910.00	884.00	614.00	886.00	258.00	344.00
6	752.00	941.00	448.00	795.00	240.00	262.00
8	1,309.00	1,934.00	813.00	1,814.00	406.00	469.00

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Stainless Steel Type	Nominal Pipe Size	Reducers			Nominal Pipe Size	Reducers			Nominal Pipe Size	Reducers		
		Concentric	Eccentric	Tees		Concentric	Eccentric	Tees		Concentric	Eccentric	Tees
304/304L	3/4 x 1/2	44.00	132.00	111.00	2 x 1/4	62.00	264.00	418.00	4 x 2 1/2	135.00	363.00	431.00
316/316L		59.00	172.00	148.00		86.00	320.00	523.00		185.00	480.00	535.00
304/304L	1 x 1/2	65.00	132.00	111.00	2 x 1/2	39.00	152.00	111.00	4 x 3	69.00	256.00	326.00
316/316L		80.00	172.00	148.00		50.00	200.00	154.00		90.00	338.00	443.00
304/304L	1 x 3/4	52.00	132.00	111.00	2 1/2 x 1	197.00	301.00	449.00	5 x 3	467.00	720.00	800.00
316/316L		69.00	172.00	148.00		258.00	424.00	560.00		597.00	910.00	1,009.00
304/304L	1 1/4 x 3/4	135.00	228.00	351.00	2 1/2 x 1 1/2	154.00	258.00	406.00	5 x 4	332.00	572.00	855.00
316/316L		185.00	308.00	443.00		209.00	344.00	523.00		437.00	689.00	1,200.00
304/304L	1 1/4 x 1	65.00	228.00	332.00	2 1/2 x 2	98.00	166.00	326.00	6 x 2	486.00	1,230.00	892.00
316/316L		96.00	308.00	418.00		129.00	203.00	437.00		640.00	1,538.00	1,230.00
304/304L	1 1/2 x 1/2	114.00	381.00	185.00	3 x 1	135.00	677.00	388.00	6 x 2 1/2	412.00	1,230.00	892.00
316/316L		150.00	498.00	240.00		178.00	892.00	510.00		560.00	1,538.00	1,230.00
304/304L	1 1/2 x 3/4	91.00	428.00	15.00	3 x 1 1/4	197.00	517.00	707.00	6 x 3	214.00	579.00	750.00
316/316L		122.00	558.00	240.00		258.00	658.00	898.00		276.00	827.00	950.00
304/304L	1 1/2 x 1	33.00	180.00	142.00	3 x 1 1/2	69.00	317.00	234.00	6 x 4	180.00	442.00	750.00
316/316L		44.00	228.00	185.00		90.00	428.00	320.00		228.00	635.00	950.00
304/304L	1 1/2 x 1 1/4	47.00	160.00	215.00	3 x 2	63.00	276.00	197.00	6 x 5	277.00	566.00	892.00
316/316L		62.00	203.00	277.00		80.00	359.00	264.00		363.00	800.00	1,230.00
304/304L	2 x 1/2	166.00	467.00	258.00	3 x 2 1/2	69.00	296.00	357.00	8 x 3	996.00	1,710.00	2,017.00
316/316L		207.00	590.00	363.00		90.00	379.00	461.00		1,304.00	2,522.00	2,601.00
304/304L	2 x 3/4	111.00	437.00	258.00	4 x 1 1/2	141.00	529.00	529.00	8 x 4	593.00	1,054.00	1,937.00
316/316L		148.00	560.00	363.00		185.00	683.00	689.00		841.00	1,392.00	2,411.00
304/304L	2 x 1	49.00	241.00	123.00	4 x 2	90.00	510.00	455.00	8 x 6	413.00	635.00	1,415.00
316/316L		62.00	304.00	172.00		118.00	675.00	603.00		497.00	779.00	1,814.00