Alliance Metals Group

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PRICE LIST

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304-150# Stainless Steel
MSS-SP114 Threaded Fittings

304	90 ELL	TEE	CROSS	90 ST ELL	45 ELL	UNION
⅛	7.83	10.50	18.28	11.18	9.90	26.44
¼	7.83	10.50	18.28	11.18	9.90	26.44
⅜	9.73	13.38	21.78	13.46	11.63	26.95
½	10.36	14.05	26.83	15.84	12.78	29.17
¾	14.86	22.35	45.91	21.98	18.66	36.96
1	21.06	28.46	67.94	38.04	22.79	55.75
1¼	36.96	56.61	80.68	55.25	36.49	96.69
1½	49.19	70.37	99.95	65.36	43.41	109.37
2	62.37	90.39	143.08	88.52	61.08	130.94
2½	142.07	193.87	411.16	186.95	168.02	354.63
3	181.03	279.40	444.18	248.00	231.57	446.60
4	353.29	504.64	721.60	482.90	412.10	724.88

304	HEX PLUG	SQ PLUG	HEX BUSH	RD/HEX CAP	RED CPLG	MSS FULL COUPLING	MSS HALF COUPLING
⅛	3.75	3.39	N/A	3.94	N/A	6.04	4.34
¼	3.75	4.00	5.11	5.65	8.19	7.95	6.05
⅜	4.63	5.35	5.58	6.64	9.09	8.36	5.19
½	7.30	7.64	7.06	6.89	8.68	11.85	8.74
¾	9.18	9.32	10.33	8.63	13.06	17.09	10.85
1	15.85	11.79	14.35	12.97	17.86	25.95	16.70
1¼	25.43	23.47	25.67	23.47	26.05	41.26	27.80
1½	27.83	27.99	30.72	30.80	37.56	48.98	37.32
2	38.42	33.13	46.86	39.28	62.72	80.90	53.75
2½	68.88	63.13	80.32	70.83	134.45	151.56	86.20
3	94.50	79.32	123.08	97.93	191.48	195.93	118.53
4	197.78	172.15	223.95	165.77	317.17	304.56	193.72

316-150# Stainless Steel
MSS-SP114 Threaded Fittings

316	90 ELL	TEE	CROSS	90 ST ELL	45 ELL	UNION
⅛	10.04	12.48	22.57	13.45	11.95	30.00
¼	10.04	12.48	22.57	13.71	11.95	30.00
⅜	12.19	16.54	26.55	16.85	14.60	30.52
½	13.46	17.45	32.96	19.82	16.03	33.14
¾	19.52	25.73	57.58	26.12	21.05	42.03
1	24.51	32.30	69.50	41.70	26.37	63.44
1¼	42.02	64.29	100.49	62.33	41.48	109.69
1½	56.04	78.00	125.42	69.43	49.33	124.50
2	70.84	100.49	172.78	99.16	68.97	148.48
2½	155.65	234.92	487.72	231.26	180.71	381.58
3	214.12	335.31	531.18	299.73	260.85	530.56
4	393.49	546.29	860.70	591.93	491.07	903.83

316	HEX PLUG	SQ PLUG	HEX BUSH	RD/HEX CAP	RED CPLG	MSS FULL COUPLING	MSS HALF COUPLING
⅛	4.64	3.65	N/A	4.78	N/A	7.72	4.90
¼	4.64	4.63	5.76	6.43	9.32	7.72	4.90
⅜	5.24	6.10	6.57	7.59	10.35	9.06	5.70
½	8.79	8.63	7.72	8.78	12.41	13.21	8.33
¾	11.08	10.55	11.47	10.08	15.92	19.10	10.59
1	17.64	13.19	16.39	15.44	26.27	28.46	16.10
1¼	30.48	31.18	32.03	30.34	34.30	45.25	24.40
1½	36.08	34.46	37.87	38.90	45.81	53.77	32.47
2	52.06	47.55	53.79	49.80	77.27	75.69	42.51
2½	83.75	76.59	91.39	88.35	167.63	177.83	101.49
3	107.47	93.10	140.52	115.69	228.07	229.72	138.28
4	240.22	204.08	252.76	201.03	378.15	354.74	227.51

304-316 150# Stainless Steel MSS-SP114 Socket Weld Fittings

304	90 ELBOW	45 ELBOW	TEE	COUPLING	UNION
½	10.36	12.78	14.05	9.38	29.17
¾	14.86	18.66	22.35	13.53	36.96
1	21.06	22.79	28.46	20.55	55.75
1¼	36.96	36.49	56.61	32.67	96.69
1½	49.19	43.41	70.37	38.78	109.37
2	62.37	61.08	90.39	54.66	130.94

316	90 ELBOW	45 ELBOW	TEE	COUPLING	HALF COUPLING	UNION
½	13.46	16.03	17.45	10.84	6.83	33.14
¾	19.52	21.05	25.73	15.67	8.69	42.03
1	24.51	26.37	32.30	23.35	13.21	63.44
1¼	42.02	41.48	64.29	37.12	20.02	109.69
1½	56.04	49.33	78.00	44.11	26.64	124.50
2	70.84	68.97	100.49	62.09	34.87	148.48

***We can thread up to 4" nominal pipe size to any length**

Stainless Steel Threaded Pipe Nipples

Specification:
ASTM A-733
Threads Conform to:
ANSI B1.20.1
* All Pipe Nipples are manufactured from ASTM A312/SA312 stainless steel pipe

TBE'S - Thread Both Ends
TOE'S - Thread One End
Thread One End X Machined Groove

TYPE 304/304L
Schedule 40 Welded

DIAM INCHES	LENGTH OF CLOSE	PRICE EACH	LENGTH IN INCHES															
			1½	2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
⅛	¾	13.60	17.79	21.24	24.56	27.96	31.39	34.83	38.24	41.67	45.12	48.53	56.25	63.12	69.97	76.83	83.66	90.51
¼	⅞	15.33	19.01	22.83	27.06	31.28	35.47	40.03	44.26	48.47	52.69	56.91	66.48	74.87	83.30	91.71	100.14	108.56
⅜	1	18.43	22.38	27.07	32.24	37.37	42.55	47.68	52.86	57.98	63.14	68.33	80.28	90.59	100.89	111.18	121.52	131.81
½	1⅛	23.77	28.67	34.35	41.16	47.94	54.76	61.76	68.59	75.39	82.16	88.99	103.82	117.43	131.01	144.62	158.20	171.79
¾	1⅜	32.05	34.13	40.90	49.11	57.35	65.59	73.82	82.01	90.25	98.49	106.72	124.02	140.47	156.94	173.41	189.87	206.33
1	1½	42.14		52.78	62.66	73.27	83.87	94.46	105.06	115.67	126.30	136.88	160.31	181.51	202.69	223.90	245.13	266.33
1¼	1⅝	56.63		66.71	79.02	92.47	105.91	119.35	132.78	146.21	159.63	173.07	200.68	227.56	254.42	281.29	308.14	335.02
1½	1¾	69.35		76.02	91.87	107.73	123.63	139.47	155.34	171.20	187.05	202.93	236.38	268.12	299.86	331.59	363.30	395.03
2	2	107.64			119.90	138.79	159.48	180.13	200.80	221.48	242.14	262.84	308.15	349.52	390.85	432.16	473.52	514.84
2½	2½	218.30				250.75	283.24	315.64	343.93	376.40	408.83	441.31	513.60	578.50	643.43	708.35	773.27	838.17
3	2⅝	307.11				339.16	381.87	424.58	443.61	486.32	529.01	571.73	684.29	769.70	855.10	940.54	1,025.95	1,111.39
4	2⅞	392.52						517.15	567.56	622.99	678.40	733.75	879.08	989.86	1,100.63	1,211.44	1,322.21	1,433.00

TYPE 316/316L
Schedule 40 Welded

DIAM INCHES	LENGTH OF CLOSE	PRICE EACH	LENGTH IN INCHES															
			1½	2	2½	3	3½	4	4½	5	5½	6	7	8	9	10	11	12
⅛	¾	16.83	23.62	28.78	33.83	39.00	44.17	49.34	54.52	59.70	64.86	70.07	81.34	91.71	102.07	112.42	122.76	133.15
¼	⅞	18.91	24.27	29.55	35.25	40.97	46.71	52.83	58.52	64.28	69.97	75.68	88.41	99.86	111.28	122.69	134.13	145.56
⅜	1	23.39	29.21	35.87	43.03	50.18	57.34	64.48	71.66	78.84	85.95	93.13	109.27	123.60	137.91	152.25	166.55	180.85
½	1⅛	31.12	38.27	46.88	56.70	66.49	76.32	86.38	96.16	104.87	115.80	125.60	146.51	166.14	185.73	205.35	224.95	244.57
¾	1⅜	40.62	43.39	52.99	64.07	75.17	86.28	97.38	108.51	119.59	130.72	141.84	164.95	187.16	209.35	231.58	253.80	275.99
1	1½	56.39		71.50	85.82	100.90	116.00	131.11	146.18	161.30	176.40	191.51	224.08	254.26	284.44	314.65	344.85	375.01
1¼	1⅝	77.15		91.75	110.01	129.50	148.94	168.41	187.89	207.37	226.78	246.26	285.96	324.90	363.82	402.75	441.67	480.63
1½	1¾	95.27		105.42	128.43	151.43	174.43	197.42	220.40	243.39	266.38	289.36	337.21	383.19	429.21	475.18	521.17	567.13
2	2	147.99			169.32	197.74	228.00	258.34	288.66	319.00	349.28	379.58	444.51	505.18	565.77	626.38	687.07	747.64
2½	2½	281.41				325.70	370.01	414.26	454.28	498.32	542.63	586.88	683.38	771.93	860.50	949.07	1,037.63	1,126.15
3	2⅝	398.59				442.88	501.86	560.85	594.49	653.48	712.50	771.47	918.59	1,036.59	1,154.57	1,272.57	1,390.56	1,508.59
4	2⅞	538.33						717.92	792.47	872.29	952.13	1,031.95	1,228.63	1,388.26	1,547.94	1,707.55	1,867.21	2,026.85

List prices apply to Schedule 40 Welded Nipples Only.
Seamless Sch. 80 List x 2.50

We also stock 5" and 6" Nipples Thru 12"

Stainless Steel Plate Flanges IPS Slip-on

ASTM A182/SA 182

DIMENSIONS						BOLTS		LIST PRICES	
NOMINAL PIPE SIZE	INSIDE DIA. ID	OD	THICKNESS T	BOLT CIRCLE BC	HOLE DIA. HD	SIZE	NO.	304/304L	316/316L
½	.88	3.50	0.50	2.38	0.63	1/2	4	18.00	24.00
¾	1.09	3.88	0.50	2.75	0.63	1/2	4	20.00	28.00
1	1.36	4.25	0.50	3.13	0.63	1/2	4	25.00	37.00
1¼	1.70	4.63	0.50	3.50	0.63	1/2	4	29.00	42.00
1½	1.95	5.00	0.50	3.88	0.63	1/2	4	32.00	44.00
2	2.44	6.00	0.50	4.75	0.75	5/8	4	43.00	60.00
2½	2.94	7.00	0.50	5.50	0.75	5/8	4	58.00	85.00
3	3.57	7.50	0.50	6.00	0.75	5/8	4	61.00	89.00
4	4.57	9.00	0.50	7.50	0.75	5/8	8	82.00	120.00
5	5.66	10.00	0.50	8.50	0.88	3/4	8	93.00	136.00
6	6.72	11.00	0.50	9.50	0.88	3/4	8	108.00	158.00
8	8.72	13.50	0.50	11.75	0.88	3/4	8	152.00	223.00
8	8.72	13.50	0.75	11.75	0.88	3/4	8	218.00	302.00
10	10.88	16.00	0.63	14.25	1.00	7/8	12	241.00	317.00
10	10.88	16.00	0.75	14.25	1.00	7/8	12	273.00	376.00
12	12.88	19.00	0.63	17.00	1.00	7/8	12	350.00	455.00
12	12.88	19.00	0.75	17.00	1.00	7/8	12	399.00	549.00
14	14.14	21.00	0.63	18.75	1.13	1	12	467.00	628.00
14	14.14	21.00	0.75	18.75	1.13	1	12	533.00	712.00
16	16.16	23.50	0.75	21.25	1.13	1	16	644.00	884.00
18	18.18	25.00	0.75	22.75	1.25	1-1/8	16	688.00	948.00

Stainless Steel Plate Flanges w/1/4” Chamfer for Type A,C, Stub Ends

ASTM A182/SA 182

DIMENSIONS						BOLTS		LIST PRICES	
NOMINAL PIPE SIZE	INSIDE DIA. ID	OD	THICKNESS T	BOLT CIRCLE BC	HOLE DIA. HD	SIZE	NO.	304/304L	316/316L
½	.88	3.50	0.50	2.38	0.63	1/2	4	18.00	24.00
¾	1.09	3.88	0.50	2.75	0.63	1/2	4	20.00	28.00
1	1.36	4.25	0.50	3.13	0.63	1/2	4	25.00	37.00
1¼	1.70	4.63	0.50	3.50	0.63	1/2	4	29.00	42.00
1½	1.95	5.00	0.50	3.88	0.63	1/2	4	32.00	44.00
2	2.44	6.00	0.50	4.75	0.75	5/8	4	43.00	60.00
2½	2.94	7.00	0.50	5.50	0.75	5/8	4	58.00	85.00
3	3.57	7.50	0.50	6.00	0.75	5/8	4	61.00	89.00
4	4.57	9.00	0.50	7.50	0.75	5/8	8	82.00	120.00
5	5.66	10.00	0.50	8.50	0.88	3/4	8	93.00	136.00
6	6.72	11.00	0.50	9.50	0.88	3/4	8	108.00	158.00
8	8.72	13.50	0.50	11.75	0.88	3/4	8	152.00	223.00
8	8.72	13.50	0.75	11.75	0.88	3/4	8	218.00	302.00
10	10.88	16.00	0.63	14.25	1.00	7/8	12	241.00	317.00
10	10.88	16.00	0.75	14.25	1.00	7/8	12	273.00	376.00
12	12.88	19.00	0.63	17.00	1.00	7/8	12	350.00	455.00
12	12.88	19.00	0.75	17.00	1.00	7/8	12	399.00	549.00
14	14.14	21.00	0.63	18.75	1.13	1	12	467.00	628.00
14	14.14	21.00	0.75	18.75	1.13	1	12	533.00	712.00
16	16.16	23.50	0.75	21.25	1.13	1	16	644.00	884.00
18	18.18	25.00	0.75	22.75	1.25	1-1/8	16	688.00	948.00

150# Stainless Steel Blind Flanges

ASTM A182/SA 182

DIMENSIONS					BOLTS		LIST PRICES	
NOMINAL PIPE SIZE	OD	THICKNESS T	BOLT CIRCLE BC	HOLE DIA. HD	SIZE	NO.	304/304L	316/316L
1	4.25	0.50	3.13	0.63	1/2	4	28.00	42.00
1¼	4.63	0.50	3.50	0.63	1/2	4	34.00	49.00
1½	5.00	0.50	3.88	0.63	1/2	4	36.00	52.00
2	6.00	0.50	4.75	0.75	5/8	4	50.00	73.00
2½	7.00	0.50	5.50	0.75	5/8	4	71.00	104.00
3	7.50	0.50	6.00	0.75	5/8	4	79.00	116.00
4	9.00	0.50	7.50	0.75	5/8	8	112.00	164.00
5	10.00	0.50	8.50	0.88	3/4	8	140.00	205.00
6	11.00	0.50	9.50	0.88	3/4	8	176.00	259.00
8	13.50	0.50	11.75	0.88	3/4	8	265.00	390.00
10	16.00	0.63	14.25	1.00	7/8	12	566.00	737.00
12	19.00	0.63	17.00	1.00	7/8	12	810.00	1,054.00

150# Stainless Steel Back-up Flanges for Angle Face Rings

ASTM A182/SA 182

DIMENSIONS						BOLTS		LIST PRICES	
NOMINAL PIPE SIZE	INSIDE DIA. ID	OD	THICKNESS T	BOLT CIRCLE BC	HOLE DIA. HD	SIZE	NO.	304/304L	316/316L
½	1.25	3.50	0.50	2.38	0.63	1/2	4	17.00	23.00
¾	1.44	3.88	0.50	2.75	0.63	1/2	4	19.00	27.00
1	1.69	4.25	0.50	3.13	0.63	1/2	4	24.00	36.00
1¼	2.06	4.63	0.50	3.50	0.63	1/2	4	28.00	41.00
1½	2.25	5.00	0.50	3.88	0.63	1/2	4	29.00	43.00
2	2.88	6.00	0.50	4.75	0.75	5/8	4	40.00	59.00
2½	3.38	7.00	0.50	5.50	0.75	5/8	4	56.00	83.00
3	4.00	7.50	0.50	6.00	0.75	5/8	4	59.00	87.00
4	5.00	9.00	0.50	7.50	0.75	5/8	8	80.00	118.00
5	6.06	10.00	0.50	8.50	0.88	3/4	8	91.00	134.00
6	7.25	11.00	0.50	9.50	0.88	3/4	8	106.00	156.00
8	9.25	13.50	0.50	11.75	0.88	3/4	8	150.00	221.00
10	11.44	16.00	0.63	14.25	1.00	7/8	12	209.00	307.00
12	13.63	19.00	0.63	17.00	1.00	7/8	12	303.00	444.00
14	14.88	21.00	0.63	18.75	1.13	1	12	464.00	625.00
16	16.88	23.50	0.75	21.25	1.13	1	16	641.00	881.00
18	18.88	25.00	0.75	22.75	1.25	1-1/8	16	685.00	945.00

Stainless Steel ANSI Flanges

ASTM A182/SA 182 ANSI B16.5

TYPE 304/304L

150 LB.					300 LB.			
SIZE (IN.)	WELD NECK & SOCKET WELD	SLIP-ON	BLIND	THREADED & LAP JOINT	SIZE (IN.)	WELD NECK & SOCKET WELD	SLIP-ON	BLIND
½	45.00	40.00	40.00	45.00	½	76.00	60.00	63.00
¾	50.00	41.00	44.00	50.00	¾	76.00	60.00	63.00
1	58.00	45.00	47.00	55.00	1	76.00	60.00	63.00
1¼	83.00	61.00	67.00	71.00	1¼	118.00	92.00	86.00
1½	83.00	61.00	67.00	71.00	1½	118.00	92.00	86.00
2	92.00	79.00	83.00	93.00	2	122.00	100.00	93.00
2½	139.00	111.00	118.00	130.00	2½	191.00	189.00	188.00
3	152.00	119.00	130.00	136.00	3	210.00	197.00	196.00
4	212.00	162.00	182.00	186.00	4	348.00	270.00	264.00
5	293.00	212.00	222.00	286.00	5	520.00	460.00	510.00
6	366.00	247.00	266.00	334.00	6	651.00	552.00	604.00
8	620.00	467.00	487.00	644.00				
10	915.00	725.00	846.00	881.00				
12	1428.00	1071.00	1145.00	1381.00				

TYPE 316/316L

150 LB.					300 LB.			
SIZE (IN.)	WELD NECK & SOCKET WELD	SLIP-ON	BLIND	THREADED & LAP JOINT	SIZE (IN.)	WELD NECK & SOCKET WELD	SLIP-ON	BLIND
½	68.00	52.00	52.00	63.00	½	106.00	80.00	89.00
¾	73.00	59.00	61.00	73.00	¾	106.00	80.00	89.00
1	84.00	67.00	70.00	78.00	1	106.00	80.00	89.00
1¼	117.00	85.00	85.00	104.00	1¼	159.00	131.00	120.00
1½	117.00	85.00	85.00	104.00	1½	159.00	131.00	120.00
2	127.00	107.00	113.00	129.00	2	172.00	145.00	125.00
2½	198.00	153.00	165.00	182.00	2½	277.00	276.00	281.00
3	205.00	170.00	182.00	203.00	3	291.00	286.00	288.00
4	302.00	234.00	270.00	280.00	4	498.00	408.00	411.00
5	441.00	304.00	321.00	392.00	5	741.00	649.00	714.00
6	522.00	354.00	407.00	460.00	6	891.00	753 .00	831.00
8	861.00	668.00	824.00	866.00				
10	1,317.00	1,027.00	1,112.00	1,348.00				
12	1,959.00	1,475.00	1,456.00	1,912.00				

Threaded 2 & 3 PC - 316 Stainless Steel Ball Valves

2 PC Full Port, 1000 WOG

PART NUMBER	SIZE / INCHES	LIST PRICE
V6B2P14-H	1/4	38.77
V6B2P38-H	3/8	38.77
V6B2P12-H	1/2	40.48
V6B2P34-H	3/4	54.23
V6B2P1-H	1	83.65
V6B2P114-H	1-1/4	112.91
V6B2P112-H	1-1/2	164.39
V6B2P2-H	2	245.00
V6B2P212-H	2-1/2	457.60
V6B2P3-H	3	655.65

3 PC Full Port, 1000 WOG

PART NUMBER	SIZE / INCHES	LIST PRICE
V6B3P14-H	1/4	46.86
V6B3P38-H	3/8	46.31
V6B3P12-H	1/2	50.00
V6B3P34-H	3/4	72.32
V6B3P1-H	1	105.10
V6B3P114-H	1-1/4	151.25
V6B3P112-H	1-1/2	206.36
V6B3P2-H	2	305.25
V6B3P212-H	2-1/2	611.50
V6B3P3-H	3	814.33

FEATURES

- Investment Castings for Body and End Cap
- Blow-out Proof Stem
- Various Thread Standards Available
- Full Port

STANDARDS

- Design: ASME B16.34, API 608
- Pipe Thread: ASME B1.120.1, BS21
  DIN 2999/259, BSP
- ISO 7/1 & EN10226

SPECIFICATION

- Working Pressure: 1000 psi at 100˚F (38˚C)
- Temperature Range: -20˚C to 200˚C

Stainless Steel Butt Weld A-403 Fittings

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

TYPE 304/304L
SCHEDULE 10S

NOMINAL PIPE SIZE (IN)	90˚ ELBOWS		45˚ L.R. ELBOWS	TEES	CAPS	STUB ENDS / MSS TYPE	
	LONG RADIUS	SHORT RADIUS				A	C
½	17.00		22.00	55.00	31.00	33.00	13.92
¾	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
1¼	31.00	118.00	42.00	84.00	114.00	86.00	16.70
1½	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
2½	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	*	*	*	*	*	*	*
12	*	*	*	*	*	*	*

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
½	22.00		28.00	68.00	44.00	43.00	17.94
¾	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
1¼	43.00	155.00	54.00	117.00	160.00	108.00	23.38
1½	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
2½	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	*	*	*	*	*	*	*
12	*	*	*	*	*	*	*

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	¾ x ½	34.00	128.00	98.00	2½ x 1	172.00	308.00	424.00	6 x 2	492.00	1,218.00	892.00
316/316L		43.00	166.00	129.00		221.00	424.00	529.00		640.00	1,519.00	1,230.00
304/304L	1 x ½	49.00	119.00	98.00	2½ x 1½	135.00	271.00	406.00	6 x 2½	431.00	1,218.00	892.00
316/316L		69.00	153.00	135.00		172.00	344.00	523.00		560.00	1,519.00	1,230.00
304/304L	1 x ¾	42.00	111.00	98.00	2½ x 2	92.00	166.00	308.00	6 x 3	111.00	579.00	627.00
316/316L		53.00	145.00	135.00		123.00	203.00	400.00		153.00	827.00	818.00
304/304L	1¼ x ¾	107.00	160.00	246.00	3 x 1	98.00	492.00	301.00	6 x 4	84.00	359.00	627.00
316/316L		154.00	221.00	308.00		129.00	640.00	431.00		111.00	482.00	818.00
304/304L	1¼ x 1	64.00	129.00	246.00	3 x 1¼	166.00	510.00	646.00	6 x 5	172.00	449.00	738.00
316/316L		86.00	172.00	308.00		234.00	652.00	763.00		221.00	541.00	923.00
304/304L	1½ x ½	74.00	322.00	154.00	3 x 1½	49.00	221.00	209.00	8 x 3	996.00	1,710.00	1,962.00
316/316L		92.00	412.00	203.00		63.00	296.00	289.00		1365.00	2,583.00	2,522.00
304/304L	1½ x ¾	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
316/316L		76.00	359.00	203.00		60.00	228.00	221.00		469.00	1,515.00	2,306.00
304/304L	1½ x 1	28.00	103.00	123.00	3 x 2½	48.00	187.00	338.00	8 x 6	221.00	627.00	1,341.00
316/316L		39.00	145.00	154.00		63.00	241.00	443.00		262.00	827.00	1,704.00
304/304L	1½ x 1¼	37.00	123.00	215.00	4 x 1½	105.00	455.00	492.00				
316/316L		44.00	172.00	277.00		129.00	603.00	640.00				
304/304L	2 x ½	117.00	437.00	209.00	4 x 2	65.00	344.00	388.00				
316/316L		160.00	572.00	295.00		77.00	448.00	492.00				
304/304L	2 x ¾	86.00	308.00	148.00	4 x 2½	74.00	363.00	400.00				
316/316L		111.00	387.00	203.00		92.00	480.00	492.00				
304/304L	2 x 1	33.00	159.00	111.00	4 x 3	50.00	172.00	295.00				
316/316L		44.00	207.00	154.00		66.00	228.00	400.00				
304/304L	2 x 1¼	43.00	228.00	178.00	5 x 3	338.00	467.00	763.00				
316/316L		55.00	289.00	228.00		449.00	584.00	959.00				
304/304L	2 x 1½	33.00	95.00	111.00	5 x 4	271.00	449.00	738.00				
316/316L		39.00	118.00	154.00		357.00	547.00	861.00				

Stainless Steel Butt Weld A-403 Fittings

TYPE 304/304L
SCHEDULE 40S

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
	LONG RADIUS	SHORT RADIUS				A
½	21.00		28.00	59.00	34.00	34.00
¾	21.00		28.00	59.00	39.00	38.00
1	23.00	92.00	28.00	59.00	49.00	48.00
1¼	34.00	154.00	41.00	98.00	92.00	103.00
1½	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
2½	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
½	27.00		37.00	74.00	46.00	43.00
¾	27.00		37.00	74.00	58.00	52.00
1	31.00	129.00	37.00	74.00	66.00	60.00
1¼	46.00	209.00	50.00	129.00	123.00	132.00
1½	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
2½	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

Stainless Steel Butt Weld A-403 Fittings

TYPE 304/304L, 316/316L
SCHEDULE 40S

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	¾ x ½	44.00	132.00	111.00	2 x 1¼	62.00	264.00	418.00	4 x 2½	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 ½	65.00	132.00	111.00	2 x 1½	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 ¾	52.00	132.00	111.00	2½ 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	1¼ x ¾	135.00	228.00	351.00	2½ x 1½	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	1¼ x 1	65.00	228.00	332.00	2½ 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	1½ x ½	114.00	381.00	185.00	3 x 1	135.00	677.00	388.00	6 x 2½	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	1½ x ¾	91.00	428.00	15.00	3 x 1¼	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	1½ x 1	33.00	180.00	142.00	3 x 1½	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	1½ x 1¼	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 ½	166.00	467.00	258.00	3 x 2½	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 ¾	111.00	437.00	258.00	4 x 1½	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

Stainless Steel Custom Castings

PART NUMBER	DESCRIPTION – NST/NH THREADS	PATTERN	LIST
CAST0065	1-1/2 NH Thread x 2.00 304		86.80
CAST0017	2-1/2 NH Thread x 2.00 304		157.35
CAST0018	3 NH Thread x 2.00 304		167.55
CAST0038	4 NH Thread x 3.50 304		321.30
CAST0040	5 NH Thread x 2.00 304		310.80
CAST0082	5 NH Thread x 2.00 304 w/ 5.29 Recess		277.45
CAST0059	5 NH Thread x 2.00 316		256.75
CAST0057	6 NH Thread x 2.31 316		319.50
CAST0019	6 NH Thread x 3.50 304		552.40
CAST0026	6 NH Thread x 4.88 304		611.00
CAST0066	8 NH Thread x 3.50 304		1625.00
PART NUMBER	**DESCRIPTION – CUSTOM CAST FLANGES**	**PATTERN**	**LIST**
CAST0045	2 Flange 4.401 BC x 2.25 long 304	AKRON/ELKHART	67.00
CAST0044	2-1/2 Flange 5.22 BC x 2.25 long 304	AKRON/ELKHART	90.00
CAST0043	3 Flange 4.38 BC x 2.25 long 304	HALE	68.00
CAST0042	3 Flange 6.081 BC x 2.25 long 304	AKRON/ELKHART	111.00
CAST0048	1-1/2 Flange 3.50 BC x 3.51 Top of Cope 304	AKRON	50.00
CAST0083	2 Flange 4.50 BC x 2.00 Top of Cope 304	AKRON	66.00
CAST0049	2 Flange 4.50 BC x 3.55 Top of Cope 304	AKRON	71.00
CAST0086	2 Flange 4.06 x 4.50 BC x 4.50 Top of Cope 304	AKRON	71.20
CAST0084	2-1/2 Flange 5.375 BC x 2.00 Top of Cope 304	AKRON	79.00
CAST0050	2-1/2 Flange 5.375 BC x 3.67 Top of Cope 304	AKRON	85.00
CAST0085	3 Flange 4.38 BC x 2.00 Top of Cope 304	HALE	84.00
CAST0053	3 Flange 4.38 BC x 3.08 Top of Cope 304	HALE	81.00
CAST0087	3 Flange 6.100 x 6.125 BC x 4.00 Top of Cope 304	AKRON	112.20
CAST0020	Flow Meter Boss w/ 2" Cope	For use with Foam-Pro System	63.00
CAST0021	Flow Meter Boss w/ 2-1/2" Cope		64.00

Check Valves / Components

PART NUMBER	DESCRIPTION	PATTERN	LIST
	FOR FOAM PRO SYSTEMS		
SPSFP2X912AS	2 Check Valve Manifold		766.00
SPSFP212X912AS	2-1/2 Check Valve Manifold		864.00
SPSFP3X912AS	3 Check Valve Manifold		1024.00
SPSFP4X1012AS	4 Check Valve Manifold		1176.00
	STANDARD CHECK VALVE / GROOVE X GROOVE		
SPSGG112X4AS	1-1/2 Grv x Grv Check Valve Assy		602.00
SPSGG2X4AS	2 Grv x Grv Check Valve Assy		626.00
SPSGG212X4AS	2-1/2 Grv x Grv Check Valve Assy		690.00
SPSGG3X5AS	3 Grv x Grv Check Valve Assy		756.00
SPSGG4X5AS	4 Grv x Grv Check Valve Assy		914.00
	FLAPPER STYLE CHECK VALVE INSERTS		
SPSBF112AS	1-1/2 Check Valve Insert		434.00
SPSBF2AS	2 Check Valve Insert		472.00
SPSBF212AS	2-1/2 Check Valve Insert		595.00
SPSBF3AS	3 Check Valve Insert		635.00
SPSBF4AS	4 Check Valve Insert		805.00