

Alliance Metals Group



1-888-264-9797
1-920-685-0724 FAX
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
1/8	7.83	10.50	18.28	11.18	9.90	26.44
1/4	7.83	10.50	18.28	11.18	9.90	26.44
3/8	9.73	13.38	21.78	13.46	11.63	26.95
1/2	10.36	14.05	26.83	15.84	12.78	29.17
3/4	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
1 1/4	36.96	56.61	80.68	55.25	36.49	96.69
1 1/2	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
2 1/2	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
1/8	3.75	3.39	N/A	3.94	N/A	6.04	4.34
1/4	3.75	4.00	5.11	5.65	8.19	7.95	4.81
3/8	4.63	5.35	5.58	6.64	9.09	8.36	5.19
1/2	7.30	7.64	7.06	6.89	8.68	11.85	7.24
3/4	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
1 1/4	25.43	23.47	25.67	23.47	26.05	41.26	27.80
1 1/2	27.83	27.99	30.72	30.80	37.56	48.98	25.93
2	38.42	33.13	46.86	39.28	62.72	80.90	53.75
2 1/2	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
1/8	10.04	12.48	22.57	13.45	11.95	30.00
1/4	10.04	12.48	22.57	13.71	11.95	30.00
3/8	12.19	16.54	26.55	16.85	14.60	30.52
1/2	13.46	17.45	32.96	19.82	16.03	33.14
3/4	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
1 1/4	42.02	64.29	100.49	62.33	41.48	109.69
1 1/2	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
2 1/2	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
1/8	4.64	3.65	N/A	4.78	N/A	7.72	4.90
1/4	4.64	4.63	5.76	6.43	9.32	7.72	4.90
3/8	5.24	6.10	6.57	7.59	10.35	9.06	5.70
1/2	8.79	8.63	7.72	8.78	12.41	13.21	8.33
3/4	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
1 1/4	30.48	31.18	32.03	30.34	34.30	45.25	24.40
1 1/2	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
2 1/2	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
$\frac{1}{2}$	10.36	12.78	14.05	9.38	29.17
$\frac{3}{4}$	14.86	18.66	22.35	13.53	36.96
1	21.06	22.79	28.46	20.55	55.75
1 $\frac{1}{4}$	36.96	36.49	56.61	32.67	96.69
1 $\frac{1}{2}$	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
$\frac{1}{2}$	13.46	16.03	17.45	10.84	6.83	33.14
$\frac{3}{4}$	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
1 $\frac{1}{4}$	42.02	41.48	64.29	37.12	20.02	109.69
1 $\frac{1}{2}$	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

Stainless Steel Pipe Nipples

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

any length **Stainless Steel Threaded Pipe Nipples**

TYPE 316/316L
Schedule 40 Welded

**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
1/2	.88	3.50	0.50	2.38	0.63	1/2	4	18.00	24.00
3/4	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
1 1/4	1.70	4.63	0.50	3.50	0.63	1/2	4	29.00	42.00
1 1/2	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
2 1/2	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
1/2	.88	3.50	0.50	2.38	0.63	1/2	4	18.00	24.00
3/4	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
1 1/4	1.70	4.63	0.50	3.50	0.63	1/2	4	29.00	42.00
1 1/2	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
2 1/2	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
1/2	45.00	40.00	40.00	45.00	1/2	76.00	60.00	63.00
3/4	50.00	41.00	44.00	50.00	3/4	76.00	60.00	63.00
1	58.00	45.00	47.00	55.00	1	76.00	60.00	63.00
1 1/4	83.00	61.00	67.00	71.00	1 1/4	118.00	92.00	86.00
1 1/2	83.00	61.00	67.00	71.00	1 1/2	118.00	92.00	86.00
2	92.00	79.00	83.00	93.00	2	122.00	100.00	93.00
2 1/2	139.00	111.00	118.00	130.00	2 1/2	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
1/2	68.00	52.00	52.00	63.00	1/2	106.00	80.00	89.00
3/4	73.00	59.00	61.00	73.00	3/4	106.00	80.00	89.00
1	84.00	67.00	70.00	78.00	1	106.00	80.00	89.00
1 1/4	117.00	85.00	85.00	104.00	1 1/4	159.00	131.00	120.00
1 1/2	117.00	85.00	85.00	104.00	1 1/2	159.00	131.00	120.00
2	127.00	107.00	113.00	129.00	2	172.00	145.00	125.00
2 1/2	198.00	153.00	165.00	182.00	2 1/2	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
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	*	*	*	*	*	*	*
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
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	*	*	*	*	*	*	*
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 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	1,519.00	1,230.00
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	1,519.00	1,230.00
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	827.00	818.00
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	482.00	818.00
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	541.00	923.00
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	2,583.00	2,522.00
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	1,515.00	2,306.00
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	827.00	1,704.00
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				
		44.00	172.00	277.00		129.00	603.00	640.00				
304/304L 316/316L	2 x 1/2	117.00	437.00	209.00	4 x 2	65.00	344.00	388.00				
		160.00	572.00	295.00		77.00	448.00	492.00				
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				
		111.00	387.00	203.00		92.00	480.00	492.00				
304/304L 316/316L	2 x 1	33.00	159.00	111.00	4 x 3	50.00	172.00	295.00				
		44.00	207.00	154.00		66.00	228.00	400.00				
304/304L 316/316L	2 x 1 1/4	43.00	228.00	178.00	5 x 3	338.00	467.00	763.00				
		55.00	289.00	228.00		449.00	584.00	959.00				
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				

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TYPE 304/304L SCHEDULE 40S

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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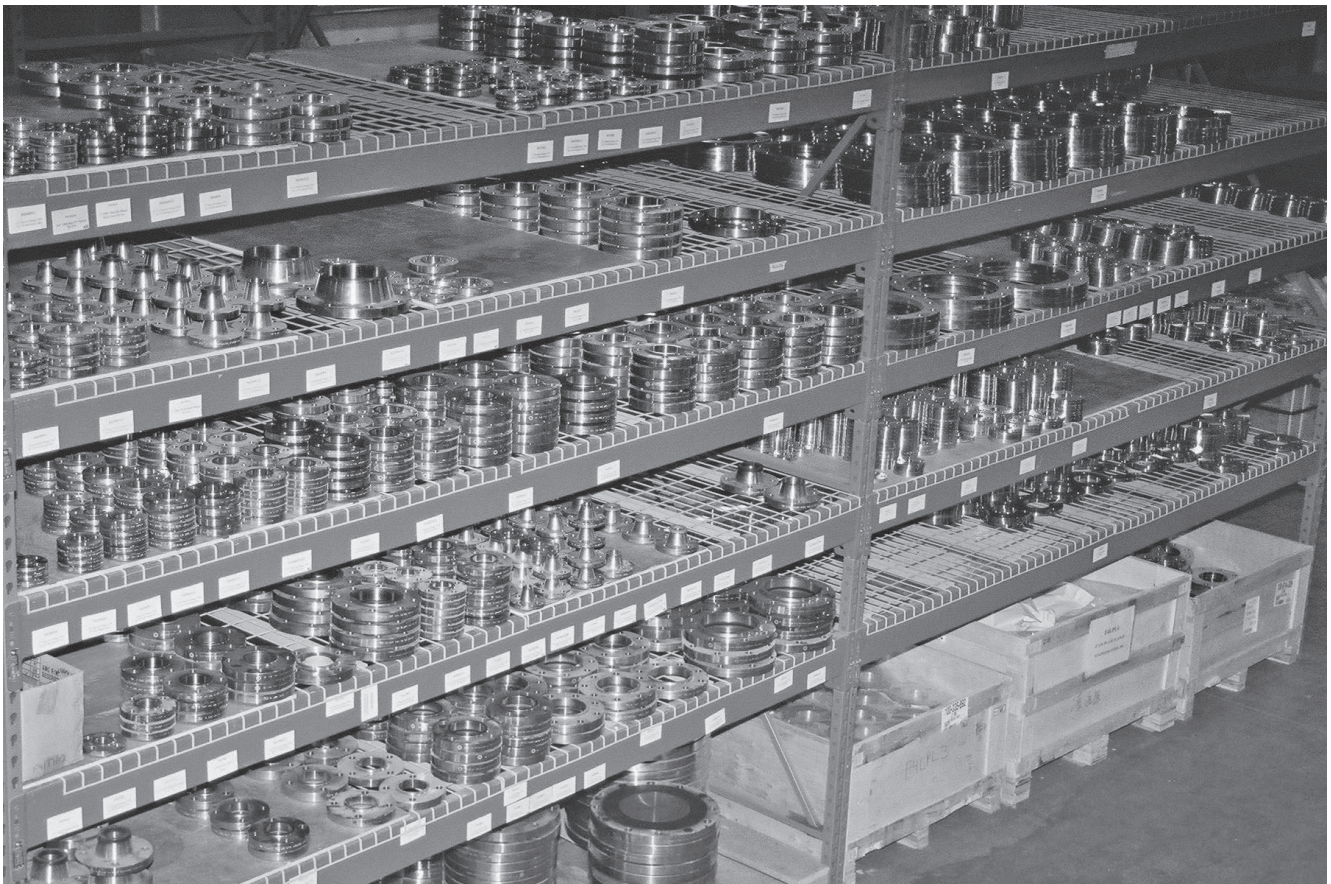
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WALL THICKNESS ARE IN ACCORDANCE TO ANSI B36.10
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Stainless Steel Type	Nominal Pipe Size	Reducers			Nominal Pipe Size	Reducers			Nominal Pipe Size	Reducers		
		Concentric	Eccentric	Tees		Concentric	Eccentric	Tees		Concentric	Eccentric	Tees
304/304L	¾ x ½	44.00	132.00	111.00	2 x ¼	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 ½	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

Custom Flanges

PART NUMBER	DESCRIPTION	PATTERN	LIST
F4SQ338X112	3.375 OD x 1.50 ID x .50T w/(4) .375 BH on 3.50 BC	AKRON	41.00
F4SQ414X2	4.25 OD x 2.00 ID x .50T w/ (4) .470 x .690 slots	AKRON/HALE	47.00
F4SQ438X244	4.375 OD x 2.438 ID x .50T w/(4) .531 BH on 4.375 BC	HALE	52.00
F4SQ438X292	4.375 OD x 2.938 ID x .50T w/ (4) .531 BH on 4.375 BC	HALE	35.00
F4SQ5X250	5.00 OD x 2.50 ID x .50T w / (4) .41 x .88 slots		56.00
F4SQ5X212	5.00 OD x 2.50 ID x .50T w/ (4) .470 x .615 slots	AKRON/HALE	64.00
F4SQ534X3	5.75 OD x 3.00 ID x .50T w/ (4) .470 x .483 slots	AKRON/HALE	64.00
F4SQ634X414	6.75 OD x 4.25 ID x .63T w/ (4) .56 BH on 7.06 BC	AKRON	121.04
F4OEM0313	6.88 OD x 4.62 ID x 1.00T 304Lw/ (8)7/16-14 UNC-2B .75 deep tapped holes on 5.75 BC		184.00



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