



STAINLESS STEEL BUTT WELD FITTINGS

Product Specifications

- ✘ *Manufactured to ASTM A403 & ASME SA40*
- ✘ *Wall Thicknesses Conform to ANSI B36.10/B3.19*
- ✘ *Dimensions Conform to ANSI B16.9/B16.28*
- ✘ *Material Conforms to A312*



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MSI Stainless Steel Butt Weld Fitting Specifications

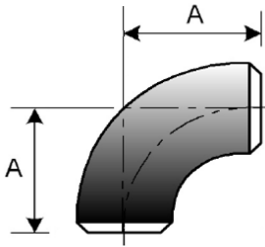
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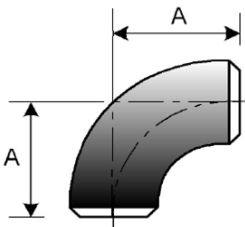
MATERIAL: A312 DIMENSIONS: ASME B16.9 MANUFACTURED TO: ASTM A403 &SA40

90° Elbows Long Radius



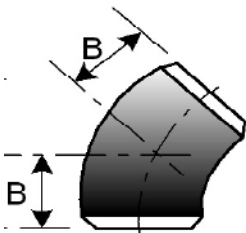
Size	Weight Each lbs.	MSI 304ss Item	MSI 316ss Item	OD	A
1/2"	0.160	A3610008	A3710008	0.840	1.500
3/4"	0.170	A3610012	A3710012	1.050	1.500
1"	0.400	A3610016	A3710016	1.315	1.500
1 1/4"	0.550	A3610020	A3710020	1.660	1.880
1 1/2"	0.800	A3610024	A3710024	1.900	2.250
2"	1.600	A3610032	A3710032	2.375	3.000
2 1/2"	3.200	A3610040	A3710040	2.875	3.750
3"	4.800	A3610048	A3710048	3.500	4.500
4"	8.900	A3610064	A3710064	4.500	6.000
5"	15.10	A3610070	A3710070	5.563	7.500
6"	24.00	A3610072	A3710072	6.625	9.000
8"	47.80	A3610084	A3710084	8.625	12.000

90° Elbows Short Radius



Size	Weight Each lbs.	MSI 304ss Item	MSI 316ss Item	OD	A
1"	0.250	A3610108	A3710116	1.315	1.00
1 1/4"	0.390	A3610112	A3710120	1.660	1.25
1 1/2"	0.530	A3610116	A3710124	1.900	1.50
2"	0.970	A3610132	A3710132	2.375	2.00
2 1/2"	2.000	A3610140	A3710140	2.875	2.50
3"	3.000	A3610148	A3710148	3.500	3.00
4"	6.100	A3610164	A3710164	4.500	4.00
5"	9.700	A3610170	A3710170	5.563	5.00
6"	16.70	A3610172	A3710172	6.625	6.00
8"	32.40	A3610184	A3710184	8.625	8.00

45° Elbows



Size	Weight Each lbs.	MSI 304ss Item	MSI 316ss Item	OD	B
1/2"	0.090	A3610408	A3710408	0.840	0.62
3/4"	0.100	A3610412	A3710412	1.050	0.44
1"	0.220	A3610416	A3710416	1.315	0.88
1 1/4"	0.330	A3610420	A3710420	1.660	1.00
1 1/2"	0.430	A3610424	A3710424	1.900	1.12
2"	0.850	A3610432	A3710432	2.375	1.38
2 1/2"	1.700	A3610440	A3710440	2.875	1.75
3"	2.500	A3610448	A3710448	3.500	2.00
4"	4.500	A3610464	A3710464	4.500	2.50
5"	7.50	A3610470	A3710470	5.563	3.12
6"	11.70	A3610472	A3710472	6.625	3.75
8"	23.30	A3610484	A3710484	8.625	5.00



MSI Stainless Steel Butt Weld Fitting Specifications



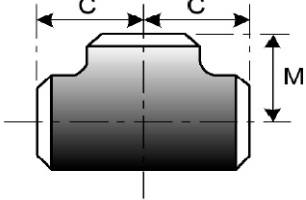
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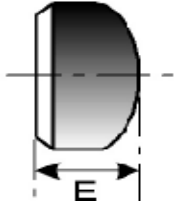


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MATERIAL: A312 DIMENSIONS: ASME B16.9 MANUFACTURED TO: ASTM A403 &SA40

Tees	Size	Weight Each lbs.	MSI 304ss Item	MSI 316ss Item	OD	C	M
	1/2"	0.350	A3620008	A3720008	0.840	1.000	1.000
	3/4"	0.450	A3620012	A3720012	1.050	1.125	1.125
	1"	0.630	A3620016	A3720016	1.315	1.500	1.500
	1 1/4"	1.160	A3620020	A3720020	1.660	1.880	1.880
	1 1/2"	1.700	A3620024	A3720024	1.900	2.250	2.250
	2"	2.960	A3620032	A3720032	2.375	2.500	2.500
	2 1/2"	5.210	A3620040	A3720040	2.875	3.000	3.000
	3"	7.440	A3620048	A3720048	3.500	3.380	3.380
	4"	12.600	A3620064	A3720064	4.500	4.120	4.120
	5"	19.80	A3620070	A3720070	5.563	4.880	4.880
	6"	29.30	A3620072	A3720072	6.625	5.620	5.620
	8"	53.70	A3620084	A3720084	8.625	7.000	7.000

Caps	Size	Weight Each lbs.	MSI 304ss Item	MSI 316ss Item	OD	E
	1/2"	0.070	A3640508	A3740508	0.840	1.00
	3/4"	0.130	A3640512	A3740512	1.050	1.00
	1"	0.220	A3640516	A3740516	1.315	1.50
	1 1/4"	0.310	A3640520	A3740520	1.660	1.50
	1 1/2"	0.370	A3640524	A3740524	1.900	1.50
	2"	0.510	A3640532	A3740532	2.375	1.50
	2 1/2"	0.810	A3640540	A3740540	2.875	1.50
	3"	1.200	A3640548	A3740548	3.500	2.00
	4"	2.540	A3640564	A3740564	4.500	2.50
	5"	4.19	A3640570	A3740570	5.563	3.00
6"	6.44	A3640572	A3740572	6.625	3.50	
8"	11.20	A3640584	A3740584	8.625	4.00	



MSI Stainless Steel Butt Weld Fitting Specifications



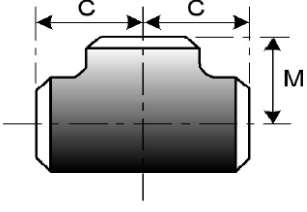
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MATERIAL: A312 DIMENSIONS: ASME B16.9 MANUFACTURED TO: ASTM A403 &SA40

Reducing Tees	Size (1 x 2 x 3)	Weight Each lbs.	MSI 304ss Item	MSI 316ss Item	OD 1 & 2	OD 3	C	M
	3/4" x 3/4" x 1/2"	0.500	A36202121208	A37202121208	1.050	0.8400	1.125	1.125
	1" x 1" x 1/2"	0.570	A36202161608	A37202161608	1.315	0.8400	1.500	2.000
	1" x 1" x 3/4"	0.580	A36202161612	A37202161612	1.315	1.0500	1.500	2.000
	1 1/4" x 1 1/4" x 3/4"	1.050	A36202202012	A37202202012	1.660	1.0500	1.875	2.000
	1 1/4" x 1 1/4" x 1"	1.070	A36202202016	A37202202016	1.660	1.3150	1.875	2.000
	1 1/2" x 1 1/2" x 1/2"	1.490	A36202242408	A37202242408	1.900	0.8400	2.250	2.500
	1 1/2" x 1 1/2" x 3/4"	1.520	A36202242412	A37202242412	1.900	1.0500	2.250	2.500
	1 1/2" x 1 1/2" x 1"	1.550	A36202242416	A37202242416	1.900	1.3150	2.250	2.500
	1 1/2" x 1 1/2" x 1 1/4"	1.570	A36202242420	A37202242420	1.900	1.6600	2.250	2.500
	2" x 2" x 1/2"	2.390	A36202323208	A37202323208	2.375	0.8400	2.500	3.000
	2" x 2" x 3/4"	2.410	A36202323212	A37202323212	2.375	1.0500	2.500	3.000
	2" x 2" x 1"	2.470	A36202323216	A37202323216	2.375	1.3150	2.500	3.000
	2" x 2" x 1 1/4"	2.550	A36202323220	A37202323220	2.375	1.6600	2.500	3.000
	2" x 2" x 1 1/2"	2.660	A36202323224	A37202323224	2.375	1.9000	2.500	3.000
	2 1/2" x 2 1/2" x 1"	4.330	A36202404016	A37202404016	2.875	1.3150	3.000	3.500
	2 1/2" x 2 1/2" x 1 1/2"	4.500	A36202404024	A37202404024	2.875	1.9000	3.000	3.500
	2 1/2" x 2 1/2" x 2"	4.580	A36202404032	A37202404032	2.875	2.3750	3.000	3.500
	3" x 3" x 1"	6.280	A36202484816	A37202484816	3.500	1.3150	3.375	3.500
	3" x 3" x 1 1/4"	6.340	A36202484820	A37202484820	3.500	1.6600	3.375	3.500
	3" x 3" x 1 1/2"	6.440	A36202484824	A37202484824	3.500	1.9000	3.375	3.500
	3" x 3" x 2"	6.510	A36202484832	A37202484832	3.500	2.3750	3.375	3.500
	3" x 3" x 2 1/2"	6.810	A36202484840	A37202484840	3.500	2.8750	3.375	3.500
	4" x 4" x 1 1/2"	10.900	A36202646424	A37202646424	4.500	1.9000	4.126	4.000
	4" x 4" x 2"	11.000	A36202646432	A37202646432	4.500	2.3750	4.126	4.000
	4" x 4" x 2 1/2"	11.300	A36202646440	A37202646440	4.500	2.8750	4.126	4.000
	4" x 4" x 3"	11.400	A36202646448	A37202646448	4.500	3.5000	4.126	4.000
	5" x 5" x 3"	17.600	A36202707048	A37202707048	5.563	3.5000	4.874	5.000
	5" x 5" x 4"	18.100	A36202707064	A37202707064	5.563	4.5000	4.874	5.000
6" x 6" x 2"	25.700	A36202727232	A37202727232	6.625	2.3750	5.626	5.500	
6" x 6" x 2 1/2"	25.700	A36202727240	A37202727240	6.625	2.8750	5.626	5.500	
6" x 6" x 3"	25.800	A36202727248	A37202727248	6.625	3.5000	5.626	5.500	
6" x 6" x 4"	26.200	A36202727264	A37202727264	6.625	4.5000	5.626	5.500	
6" x 6" x 5"	26.700	A36202727270	A37202727270	6.625	5.5630	5.626	5.500	
8" x 8" x 3"	47.600	A36202848448	A37202848448	8.625	3.5000	7.000	6.000	
8" x 8" x 4"	47.900	A36202848464	A37202848464	8.625	4.5000	7.000	6.000	
8" x 8" x 5"	48.100	A36202848470	A37202848472	8.625	5.5630	7.000	6.000	



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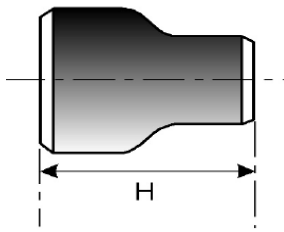


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MATERIAL: A312 DIMENSIONS: ASME B16.9 MANUFACTURED TO: ASTM A403 &SA40

Concentric Reducers



Size (1 x 2)	Weight Each lbs.	MSI 304ss Item	MSI 316ss Item	OD 1	OD 2	H
3/4" x 1/2"	0.150	A366251208	A376251208	1.050	0.840	1.500
1" x 1/2"	0.360	A366251608	A376251608	1.315	0.840	2.000
1" x 3/4"	0.360	A366251612	A376251612	1.315	1.050	2.000
1 1/4" x 3/4"	0.420	A366252012	A376252012	1.660	1.050	2.000
1 1/4" x 1"	0.480	A366252016	A376252016	1.660	1.315	2.000
1 1/2" x 1/2"	0.560	A366252408	A376252408	1.900	0.840	2.500
1 1/2" x 3/4"	0.560	A366252412	A376252412	1.900	1.050	2.500
1 1/2" x 1"	0.570	A366252416	A376252416	1.900	1.315	2.500
1 1/2" x 1 1/4"	0.650	A366252420	A376252420	1.900	1.660	2.500
2" x 1/2"	0.740	A366253208	A376253208	2.375	0.840	3.000
2" x 3/4"	0.740	A366253212	A376253212	2.375	1.050	3.000
2" x 1"	0.810	A366253216	A376253216	2.375	1.315	3.000
2" x 1 1/4"	0.880	A366253220	A376253220	2.375	1.660	3.000
2" x 1 1/2"	0.940	A366253224	A376253224	2.375	1.900	3.000
2 1/2" x 1"	1.300	A366254016	A376254016	2.875	1.315	3.500
2 1/2" x 1 1/2"	1.500	A366254024	A376254024	2.875	1.900	3.500
2 1/2" x 2"	1.600	A366254032	A376254032	2.875	2.375	3.500
3" x 1"	1.700	A366254816	A376254816	3.500	1.315	3.500
3" x 1 1/4"	1.800	A366254820	A376254820	3.500	1.660	3.500
3" x 1 1/2"	1.900	A366254824	A376254824	3.500	1.900	3.500
3" x 2"	2.000	A366254832	A376254832	3.500	2.375	3.500
3" x 2 1/2"	2.200	A366254840	A376254840	3.500	2.875	3.500
4" x 1 1/2"	3.000	A366256424	A376256424	4.500	1.900	4.000
4" x 2"	3.100	A366256432	A376256432	4.500	2.375	4.000
4" x 2 1/2"	3.200	A366256440	A376256440	4.500	2.875	4.000
4" x 3"	3.300	A366256448	A376256448	4.500	3.500	4.000
5" x 3"	5.100	A366257048	A376257048	5.563	3.500	5.000
5" x 4"	5.500	A366257064	A376257064	5.563	4.500	5.000
6" x 2"	6.500	A366257232	A376257232	6.625	2.375	5.500
6" x 2 1/2"	6.600	A366257240	A376257240	6.625	2.875	5.500
6" x 3"	6.900	A366257248	A376257248	6.625	3.500	5.500
6" x 4"	7.400	A366257264	A376257264	6.625	4.500	5.500
6" x 5"	7.600	A366257270	A376257270	6.625	5.563	5.500
8" x 3"	9.800	A366258448	A376258448	8.625	3.500	6.000
8" x 4"	10.800	A366258464	A376258464	8.625	4.500	6.000
8" x 5"	11.500	A366258472	A376258472	8.625	5.563	6.000



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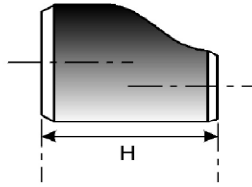


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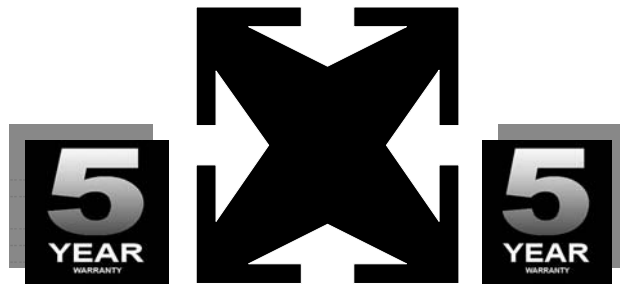
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MATERIAL: A312 DIMENSIONS: ASME B16.9 MANUFACTURED TO: ASTM A403 &SA40

Eccentric Reducers



Size	Weight Each lbs.	MSI 304ss Item	MSI 316ss Item	OD 1	OD 2	H
3/4" x 1/2"	0.150	A366261208	A376261208	1.050	0.840	1.500
1" x 1/2"	0.360	A366261608	A376261608	1.315	0.840	2.000
1" x 3/4"	0.360	A366261612	A376261612	1.315	1.050	2.000
1 1/4" x 3/4"	0.420	A366262012	A376262012	1.660	1.050	2.000
1 1/4" x 1"	0.480	A366262016	A376262016	1.660	1.315	2.000
1 1/2" x 1/2"	0.560	A366262408	A376262408	1.900	0.840	2.500
1 1/2" x 3/4"	0.560	A366262412	A376262412	1.900	1.050	2.500
1 1/2" x 1"	0.570	A366262416	A376262416	1.900	1.315	2.500
1 1/2" x 1 1/4"	0.650	A366262420	A376262420	1.900	1.660	2.500
2" x 1/2"	0.740	A366263208	A376263208	2.375	0.840	3.000
2" x 3/4"	0.740	A366263212	A376263212	2.375	1.050	3.000
2" x 1"	0.810	A366263216	A376263216	2.375	1.315	3.000
2" x 1 1/4"	0.880	A366263220	A376263220	2.375	1.660	3.000
2" x 1 1/2"	0.940	A366263224	A376263224	2.375	1.900	3.000
2 1/2" x 1"	1.300	A366264016	A376264016	2.875	1.315	3.500
2 1/2" x 1 1/2"	1.500	A366264024	A376264024	2.875	1.900	3.500
2 1/2" x 2"	1.600	A366264032	A376264032	2.875	2.375	3.500
3" x 1"	1.700	A366264816	A376264816	3.500	1.315	3.500
3" x 1 1/4"	1.800	A366264820	A376264820	3.500	1.660	3.500
3" x 1 1/2"	1.900	A366264824	A376264824	3.500	1.900	3.500
3" x 2"	2.000	A366264832	A376264832	3.500	2.375	3.500
3" x 2 1/2"	2.200	A366264840	A376264840	3.500	2.875	3.500
4" x 1 1/2"	3.000	A366266424	A376266424	4.500	1.900	4.000
4" x 2"	3.100	A366266432	A376266432	4.500	2.375	4.000
4" x 2 1/2"	3.200	A366266440	A376266440	4.500	2.875	4.000
4" x 3"	3.300	A366266448	A376266448	4.500	3.500	4.000
5" x 3"	5.100	A366267048	A376267048	5.563	3.500	5.000
5" x 4"	5.500	A366267064	A376267064	5.563	4.500	5.000
6" x 2"	6.500	A366267232	A376267232	6.625	2.375	5.500
6" x 2 1/2"	6.600	A366267240	A376267240	6.625	2.875	5.500
6" x 3"	6.900	A366267248	A376267248	6.625	3.500	5.500
6" x 4"	7.400	A366267264	A376267264	6.625	4.500	5.500
6" x 5"	7.600	A366267270	A376267270	6.625	5.563	5.500
8" x 3"	9.800	A366268448	A376268448	8.625	3.500	6.000
8" x 4"	10.800	A366268464	A376268464	8.625	4.500	6.000
8" x 5"	11.500	A366268472	A376268472	8.625	5.563	6.000



MSI 5 YEAR LIMITED WARRANTY

MSI warrants to its initial purchaser only, that its products which are delivered to the initial purchaser will be of the kind described in the order or price list and will be free of defects in workmanship or material for a period of (5) five years from the date of delivery to MSI's initial purchaser.

Should any failure to conform to this warranty appear within (5) five years after the date of the initial delivery to MSI's initial purchaser, MSI will, upon written notification thereof and substantiation that the goods have been stored, installed, maintained and operated in accordance with recognized engineering and piping practices and industry standards, correct such defects by suitable replacement of product at our expense upon return of the defective product to MSI.

This warranty applies only during normal use that meets the above referenced conditions of installation and operation and is absolutely void if the product has been damaged after purchase or if it has been misused, repaired, altered or modified in any manner whatsoever. MSI shall not warranty any of its products if any portion of the product including without limitation, any component, gasket, housing or bolt has been modified, altered, remanufactured or replaced in any manner by any customer, user of the product or third party.

Correction of non-conformities, in the manner and for the period of time provided above, shall constitute fulfillment of all liabilities of MSI to MSI's initial purchaser, with respect to the goods, whether based on contract, negligence, strict tort or otherwise. It is the intention of MSI that no warranty of any kind, whether expressed or implied shall pass through MSI's initial purchaser to any other person or corporation.

No returns will be permitted unless prior written permission of MSI is first obtained. Buyers shall be responsible for all costs of transportation as well as any applicable restocking fees.

This warranty is exclusively for the benefit of MSI's initial purchaser of the product from MSI and to the extent prohibited by applicable law, the foregoing warranty is in lieu of all other warranties, express or implied, including but not limited to warranties of fitness or merchantability.

LIMITATIONS OF LIABILITY

MSI shall not under any circumstances be liable for special or consequential damages such as, but not limited to, damage to loss of other property or equipment, loss of profits or revenue, cost of capital, cost of purchased or replacement goods, claims of customers of our initial purchaser, any labor cost or replacement of the product or damage caused by the product.

The remedies of MSI's initial purchaser and all others, set forth herein are exclusive and the liability of MSI with respect to same shall not, except as expressly provided herein, exceed the price of the MSI products on which such liability is based.