



## BUTT WELD STEEL FITTINGS

S40 & S80 Butt Weld Steel Fitting Product Specifications



- ✘ *Dimensions Conform to ASME B16.9*
- ✘ *Material Conforms to ASTM A234 Grade B*



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# MSI Steel Butt Weld Fitting Specifications

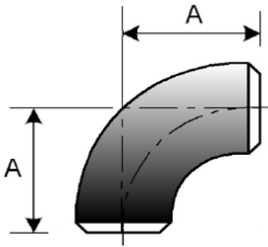
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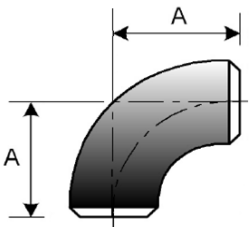
MATERIAL: A234 GRADE B DIMENSIONS: ASME B16.9

## 90° Elbows Long Radius



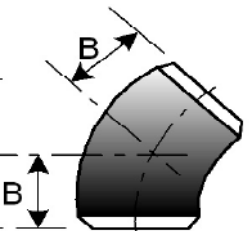
Size	S40 Weight Each lbs.	S40 Item Number	S80 Item Number	S80 Weight Each lbs.	OD	A
1/2"	0.160	A2510008	A2610008	0.260	0.840	1.500
3/4"	0.170	A2510012	A2610012	0.290	1.050	1.500
1"	0.400	A2510016	A2610016	0.480	1.315	1.500
1 1/4"	0.550	A2510020	A2610020	0.790	1.660	1.880
1 1/2"	0.800	A2510024	A2610024	1.200	1.900	2.250
2"	1.600	A2510032	A2610032	2.100	2.375	3.000
2 1/2"	3.200	A2510040	A2610040	3.800	2.875	3.750
3"	4.800	A2510048	A2610048	6.300	3.500	4.500
4"	8.900	A2510064	A2610064	12.500	4.500	6.000
5"	15.10	A2510070	A2610070	21.20	5.563	7.500
6"	24.00	A2510072	A2610072	34.40	6.625	9.000
8"	47.80	A2510084	A2610084	71.30	8.625	12.000

## 90° Elbows Short Radius



Size	S40 Weight Each lbs.	S40 Item Number	S80 Item Number	S80 Weight Each lbs.	OD	A
1"	0.250	A2510108	A2610116	0.000	1.315	1.00
1 1/4"	0.390	A2510112	A2610120	0.000	1.660	1.25
1 1/2"	0.530	A2510116	A2610124	0.750	1.900	1.50
2"	0.970	A2510132	A2610132	1.500	2.375	2.00
2 1/2"	2.000	A2510140	A2610140	2.600	2.875	2.50
3"	3.000	A2510148	A2610148	3.800	3.500	3.00
4"	6.100	A2510164	A2610164	7.600	4.500	4.00
5"	9.700	A2510170	A2610170	13.800	5.563	5.00
6"	16.70	A2510172	A2610172	22.80	6.625	6.00
8"	32.40	A2510184	A2610184	47.30	8.625	8.00

## 45° Elbows



Size	S40 Weight Each lbs.	S40 Item Number	S80 Item Number	S80 Weight Each lbs.	OD	B
1/2"	0.090	A2510408	A2610408	0.150	0.840	0.62
3/4"	0.100	A2510412	A2610412	0.160	1.050	0.44
1"	0.220	A2510416	A2610416	0.280	1.315	0.88
1 1/4"	0.330	A2510420	A2610420	0.450	1.660	1.00
1 1/2"	0.430	A2510424	A2610424	0.610	1.900	1.12
2"	0.850	A2510432	A2610432	1.200	2.375	1.38
2 1/2"	1.700	A2510440	A2610440	2.000	2.875	1.75
3"	2.500	A2510448	A2610448	3.300	3.500	2.00
4"	4.500	A2510464	A2610464	6.200	4.500	2.50
5"	7.50	A2510470	A2610470	10.50	5.563	3.12
6"	11.70	A2510472	A2610472	17.00	6.625	3.75
8"	23.30	A2510484	A2610484	34.30	8.625	5.00

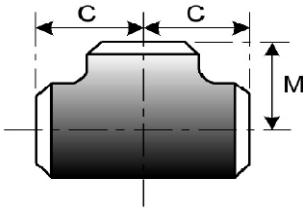
# MSI Steel Butt Weld Fitting Specifications

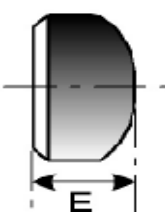
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MATERIAL: A234 GRADE B DIMENSIONS: ASME B16.9

Tees	Size	S40 Weight Each lbs.	S40 Item Number	S80 Item Number	S80 Weight Each lbs.	OD	C	M
	1/2"	0.350	A2520008	A2620008	0.450	0.840	1.000	1.000
	3/4"	0.450	A2520012	A2620012	0.600	1.050	1.125	1.125
	1"	0.630	A2520016	A2620016	0.780	1.315	1.500	1.500
	1 1/4"	1.160	A2520020	A2620020	1.440	1.660	1.880	1.880
	1 1/2"	1.700	A2520024	A2620024	2.120	1.900	2.250	2.250
	2"	2.960	A2520032	A2620032	3.730	2.375	2.500	2.500
	2 1/2"	5.210	A2520040	A2620040	6.440	2.875	3.000	3.000
	3"	7.440	A2520048	A2620048	9.450	3.500	3.380	3.380
	4"	12.600	A2520064	A2620064	16.400	4.500	4.120	4.120
	5"	19.80	A2520070	A2620070	26.40	5.563	4.880	4.880
	6"	29.30	A2520072	A2620072	42.00	6.625	5.620	5.620
	8"	53.70	A2520084	A2620084	76.00	8.625	7.000	7.000

Caps	Size	S40 Weight	S40 Item Number	S80 Item Number	S80 Weight	OD	E
	1/2"	0.070	A2540508	A2640508	0.100	0.840	1.00
	3/4"	0.130	A2540512	A2640512	0.190	1.050	1.00
	1"	0.220	A2540516	A2640516	0.280	1.315	1.50
	1 1/4"	0.310	A2540520	A2640520	0.400	1.660	1.50
	1 1/2"	0.370	A2540524	A2640524	0.490	1.900	1.50
	2"	0.510	A2540532	A2640532	0.690	2.375	1.50
	2 1/2"	0.810	A2540540	A2640540	1.030	2.875	1.50
	3"	1.200	A2540548	A2640548	1.880	3.500	2.00
	4"	2.540	A2540564	A2640564	3.470	4.500	2.50
	5"	4.19	A2540570	A2640570	5.84	5.563	3.00
	6"	6.44	A2540572	A2640572	9.45	6.625	3.50
	8"	11.20	A2540584	A2640584	16.70	8.625	4.00

# MSI Steel Butt Weld Fitting Specifications

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MATERIAL: A234 GRADE B DIMENSIONS: ASME B16.9

Reducing Tees	Size (1 x 2 x 3)	S40 Weight Each lbs.	S40 Item Number	S80 Item Number	S80 Weight Each lbs.	OD 1 & 2	OD 3	C	M
	3/4" x 3/4" x 1/2"	0.500	A25202121208	A26202121208	0.600	1.050	0.8400	1.125	1.125
	1" x 1" x 1/2"	0.570	A25202161608	A26202161608	0.710	1.315	0.8400	1.500	2.000
	1" x 1" x 3/4"	0.580	A25202161612	A26202161612	0.730	1.315	1.0500	1.500	2.000
	1 1/4" x 1 1/4" x 3/4"	1.050	A25202202012	A26202202012	1.300	1.660	1.0500	1.875	2.000
	1 1/4" x 1 1/4" x 1"	1.070	A25202202016	A26202202016	1.330	1.660	1.3150	1.875	2.000
	1 1/2" x 1 1/2" x 1/2"	1.490	A25202242408	A26202242408	1.860	1.900	0.8400	2.250	2.500
	1 1/2" x 1 1/2" x 3/4"	1.520	A25202242412	A26202242412	1.890	1.900	1.0500	2.250	2.500
	1 1/2" x 1 1/2" x 1"	1.550	A25202242416	A26202242416	1.930	1.900	1.3150	2.250	2.500
	1 1/2" x 1 1/2" x 1 1/4"	1.570	A25202242420	A26202242420	2.000	1.900	1.6600	2.250	2.500
	2" x 2" x 1/2"	2.390	A25202323208	A26202323208	3.150	2.375	0.8400	2.500	3.000
2" x 2" x 3/4"	2.410	A25202323212	A26202323212	3.110	2.375	1.0500	2.500	3.000	
2" x 2" x 1"	2.470	A25202323216	A26202323216	3.170	2.375	1.3150	2.500	3.000	
2" x 2" x 1 1/4"	2.550	A25202323220	A26202323220	3.260	2.375	1.6600	2.500	3.000	
2" x 2" x 1 1/2"	2.660	A25202323224	A26202323224	3.400	2.375	1.9000	2.500	3.000	
2 1/2" x 2 1/2" x 1"	4.330	A25202404016	A26202404016	5.460	2.875	1.3150	3.000	3.500	
2 1/2" x 2 1/2" x 1 1/2"	4.500	A25202404024	A26202404024	5.660	2.875	1.9000	3.000	3.500	
2 1/2" x 2 1/2" x 2"	4.580	A25202404032	A26202404032	5.750	2.875	2.3750	3.000	3.500	
3" x 3" x 1"	6.280	A25202484816	A26202484816	8.120	3.500	1.3150	3.375	3.500	
3" x 3" x 1 1/4"	6.340	A25202484820	A26202484820	8.170	3.500	1.6600	3.375	3.500	
3" x 3" x 1 1/2"	6.440	A25202484824	A26202484824	8.300	3.500	1.9000	3.375	3.500	
3" x 3" x 2"	6.510	A25202484832	A26202484832	8.360	3.500	2.3750	3.375	3.500	
3" x 3" x 2 1/2"	6.810	A25202484840	A26202484840	8.600	3.500	2.8750	3.375	3.500	
4" x 4" x 1 1/2"	10.900	A25202646424	A26202646424	14.400	4.500	1.9000	4.126	4.000	
4" x 4" x 2"	11.000	A25202646432	A26202646432	14.500	4.500	2.3750	4.126	4.000	
4" x 4" x 2 1/2"	11.300	A25202646440	A26202646440	14.700	4.500	2.8750	4.126	4.000	
4" x 4" x 3"	11.400	A25202646448	A26202646448	15.000	4.500	3.5000	4.126	4.000	
5" x 5" x 3"	17.600	A25202707048	A26202707048	23.700	5.563	3.5000	4.874	5.000	
5" x 5" x 4"	18.100	A25202707064	A26202707064	24.200	5.563	4.5000	4.874	5.000	
6" x 6" x 2"	25.700	A25202727232	A26202727232	36.900	6.625	2.3750	5.626	5.500	
6" x 6" x 2 1/2"	25.700	A25202727240	A26202727240	36.900	6.625	2.8750	5.626	5.500	
6" x 6" x 3"	25.800	A25202727248	A26202727248	36.900	6.625	3.5000	5.626	5.500	
6" x 6" x 4"	26.200	A25202727264	A26202727264	37.200	6.625	4.5000	5.626	5.500	
6" x 6" x 5"	26.700	A25202727270	A26202727270	37.800	6.625	5.5630	5.626	5.500	
8" x 8" x 3"	47.600	A25202848448	A26202848448	69.000	8.625	3.5000	7.000	6.000	
8" x 8" x 4"	47.900	A25202848464	A26202848464	69.000	8.625	4.5000	7.000	6.000	
8" x 8" x 5"	48.100	A25202848470	A26202848472	70.000	8.625	5.5630	7.000	6.000	

# MSI Steel Butt Weld Fitting Specifications

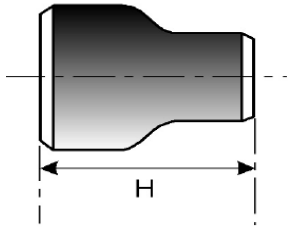
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MATERIAL: A234 GRADE B DIMENSIONS: ASME B16.9

## Concentric Reducers



Size (1 x 2)	S40 Weight Each lbs.	S40 Item Number	S80 Item Number	S80 Weight Each lbs.	OD 1	OD 2	H
3/4" x 1/2"	0.150	A256251208	A266251208	0.210	1.050	0.840	1.500
1" x 1/2"	0.360	A256251608	A266251608	0.420	1.315	0.840	2.000
1" x 3/4"	0.360	A256251612	A266251612	0.430	1.315	1.050	2.000
1 1/4" x 3/4"	0.420	A256252012	A266252012	0.530	1.660	1.050	2.000
1 1/4" x 1"	0.480	A256252016	A266252016	0.570	1.660	1.315	2.000
1 1/2" x 1/2"	0.560	A256252408	A266252408	0.650	1.900	0.840	2.500
1 1/2" x 3/4"	0.560	A256252412	A266252412	0.650	1.900	1.050	2.500
1 1/2" x 1"	0.570	A256252416	A266252416	0.720	1.900	1.315	2.500
1 1/2" x 1 1/4"	0.650	A256252420	A266252420	0.780	1.900	1.660	2.500
2" x 1/2"	0.740	A256253208	A266253208	0.940	2.375	0.840	3.000
2" x 3/4"	0.740	A256253212	A266253212	0.940	2.375	1.050	3.000
2" x 1"	0.810	A256253216	A266253216	1.000	2.375	1.315	3.000
2" x 1 1/4"	0.880	A256253220	A266253220	1.100	2.375	1.660	3.000
2" x 1 1/2"	0.940	A256253224	A266253224	1.200	2.375	1.900	3.000
2 1/2" x 1"	1.300	A256254016	A266254016	1.500	2.875	1.315	3.500
2 1/2" x 1 1/2"	1.500	A256254024	A266254024	1.700	2.875	1.900	3.500
2 1/2" x 2"	1.600	A256254032	A266254032	2.100	2.875	2.375	3.500
3" x 1"	1.700	A256254816	A266254816	2.200	3.500	1.315	3.500
3" x 1 1/4"	1.800	A256254820	A266254820	2.300	3.500	1.660	3.500
3" x 1 1/2"	1.900	A256254824	A266254824	2.400	3.500	1.900	3.500
3" x 2"	2.000	A256254832	A266254832	2.600	3.500	2.375	3.500
3" x 2 1/2"	2.200	A256254840	A266254840	2.800	3.500	2.875	3.500
4" x 1 1/2"	3.000	A256256424	A266256424	4.200	4.500	1.900	4.000
4" x 2"	3.100	A256256432	A266256432	4.300	4.500	2.375	4.000
4" x 2 1/2"	3.200	A256256440	A266256440	4.600	4.500	2.875	4.000
4" x 3"	3.300	A256256448	A266256448	4.700	4.500	3.500	4.000
5" x 3"	5.100	A256257048	A266257048	6.300	5.563	3.500	5.000
5" x 4"	5.500	A256257064	A266257064	7.500	5.563	4.500	5.000
6" x 2"	6.500	A256257232	A266257232	8.600	6.625	2.375	5.500
6" x 2 1/2"	6.600	A256257240	A266257240	9.100	6.625	2.875	5.500
6" x 3"	6.900	A256257248	A266257248	9.700	6.625	3.500	5.500
6" x 4"	7.400	A256257264	A266257264	10.700	6.625	4.500	5.500
6" x 5"	7.600	A256257270	A266257270	11.500	6.625	5.563	5.500
8" x 3"	9.800	A256258448	A266258448	15.000	8.625	3.500	6.000
8" x 4"	10.800	A256258464	A266258464	17.000	8.625	4.500	6.000
8" x 5"	11.500	A256258472	A266258472	17.600	8.625	5.563	6.000

# MSI Steel Butt Weld Fitting Specifications

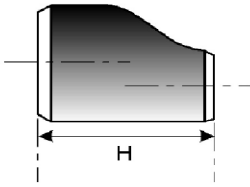
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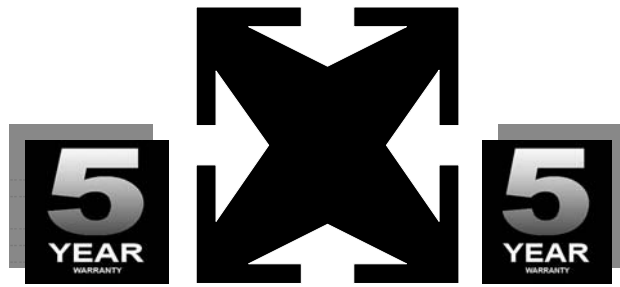
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MATERIAL: A234 GRADE B DIMENSIONS: ASME B16.9

## Eccentric Reducers



Size	S40 Weight Each lbs.	S40 Item Number	S80 Item Number	S80 Weight Each lbs.	OD 1	OD 2	H
3/4" x 1/2"	0.150	A256261208	A266261208	0.210	1.050	0.840	1.500
1" x 1/2"	0.360	A256261608	A266261608	0.420	1.315	0.840	2.000
1" x 3/4"	0.360	A256261612	A266261612	0.430	1.315	1.050	2.000
1 1/4" x 3/4"	0.420	A256262012	A266262012	0.530	1.660	1.050	2.000
1 1/4" x 1"	0.480	A256262016	A266262016	0.570	1.660	1.315	2.000
1 1/2" x 1/2"	0.560	A256262408	A266262408	0.650	1.900	0.840	2.500
1 1/2" x 3/4"	0.560	A256262412	A266262412	0.650	1.900	1.050	2.500
1 1/2" x 1"	0.570	A256262416	A266262416	0.720	1.900	1.315	2.500
1 1/2" x 1 1/4"	0.650	A256262420	A266262420	0.780	1.900	1.660	2.500
2" x 1/2"	0.740	A256263208	A266263208	0.940	2.375	0.840	3.000
2" x 3/4"	0.740	A256263212	A266263212	0.940	2.375	1.050	3.000
2" x 1"	0.810	A256263216	A266263216	1.000	2.375	1.315	3.000
2" x 1 1/4"	0.880	A256263220	A266263220	1.100	2.375	1.660	3.000
2" x 1 1/2"	0.940	A256263224	A266263224	1.200	2.375	1.900	3.000
2 1/2" x 1"	1.300	A256264016	A266264016	1.500	2.875	1.315	3.500
2 1/2" x 1 1/2"	1.500	A256264024	A266264024	1.700	2.875	1.900	3.500
2 1/2" x 2"	1.600	A256264032	A266264032	2.100	2.875	2.375	3.500
3" x 1"	1.700	A256264816	A266264816	2.200	3.500	1.315	3.500
3" x 1 1/4"	1.800	A256264820	A266264820	2.300	3.500	1.660	3.500
3" x 1 1/2"	1.900	A256264824	A266264824	2.400	3.500	1.900	3.500
3" x 2"	2.000	A256264832	A266264832	2.600	3.500	2.375	3.500
3" x 2 1/2"	2.200	A256264840	A266264840	2.800	3.500	2.875	3.500
4" x 1 1/2"	3.000	A256266424	A266266424	4.200	4.500	1.900	4.000
4" x 2"	3.100	A256266432	A266266432	4.300	4.500	2.375	4.000
4" x 2 1/2"	3.200	A256266440	A266266440	4.600	4.500	2.875	4.000
4" x 3"	3.300	A256266448	A266266448	4.700	4.500	3.500	4.000
5" x 3"	5.100	A256267048	A266267048	6.300	5.563	3.500	5.000
5" x 4"	5.500	A256267064	A266267064	7.500	5.563	4.500	5.000
6" x 2"	6.500	A256267232	A266267232	8.600	6.625	2.375	5.500
6" x 2 1/2"	6.600	A256267240	A266267240	9.100	6.625	2.875	5.500
6" x 3"	6.900	A256267248	A266267248	9.700	6.625	3.500	5.500
6" x 4"	7.400	A256267264	A266267264	10.700	6.625	4.500	5.500
6" x 5"	7.600	A256267270	A266267270	11.500	6.625	5.563	5.500
8" x 3"	9.800	A256268448	A266268448	15.000	8.625	3.500	6.000
8" x 4"	10.800	A256268464	A266268464	17.000	8.625	4.500	6.000
8" x 5"	11.500	A256268472	A266268472	17.600	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.