



STAINLESS STEEL FORGED FITTINGS

3000lb 304/304L & 316/316L Forged Stainless Steel Fittings
Product Specifications

- ✘ *Manufactured in ISO9000:2000 Facility*
- ✘ *Manufactured to ASTM/ASME A182/SA182*
- ✘ *Threaded Items conform to ANSI B1.20.1*
- ✘ *All Stainless Forged Fittings are Mercury Free*



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MSI Forged Stainless Steel Product Specifications

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3000lb Forged Stainless Steel Fittings

90° Elbows	Size	Threaded					Socket Weld				
		A	B	304 Item Number	316 Item Number	Weight	A	B	304 Item Number	316 Item Number	Weight
	1/8"	0.81	0.81	A3410002	A3510002	0.27	0.82	0.68	A3410002S	A3510002S	0.13
	1/4"	0.97	0.97	A3410004	A3510004	0.37	0.82	0.82	A3410004S	A3510004S	0.18
	3/8"	1.12	1.12	A3410006	A3510006	0.63	0.91	0.98	A3410006S	A3510006S	0.25
	1/2"	1.31	1.31	A3410008	A3510008	0.89	1.00	1.20	A3410008S	A3510008S	0.50
	3/4"	1.50	1.50	A3410012	A3510012	1.41	1.25	1.41	A3410012S	A3510012S	0.69
	1"	1.75	1.75	A3410016	A3510016	2.22	1.38	1.74	A3410016S	A3510016S	1.06
	1 1/4"	2.00	2.00	A3410020	A3510020	2.49	1.56	2.10	A3410020S	A3510020S	1.63
	1 1/2"	2.38	2.38	A3410024	A3510024	3.70	1.75	2.36	A3410024S	A3510024S	2.13
	2"	2.50	2.50	A3410032	A3510032	5.50	2.12	2.89	A3410032S	A3510032S	2.90
	2 1/2"	3.25	3.25	A3410040	A3510040	11.20	2.24	3.54	A3410040S	A3510040S	6.38
	3"	3.75	3.75	A3410048	A3510048	14.30	2.87	4.21	A3410048S	A3510048S	10.90
	4"	4.50	4.50	A3410064	A3510064	31.20	3.37	5.30	A3410064S	A3510064S	23.70

3000lb Forged Stainless Steel Fittings

45° Elbows	Size	Threaded					Socket Weld				
		A	B	304 Item Number	316 Item Number	Weight	A	B	304 Item Number	316 Item Number	Weight
	1/4"	0.75	1.00	A3410404	A3510404	0.27	0.69	0.82	A3410404S	A3510404S	0.13
	3/8"	0.88	1.31	A3410406	A3510406	0.51	0.69	0.98	A3410406S	A3510406S	0.19
	1/2"	1.00	1.50	A3410408	A3510408	0.72	0.82	1.20	A3410408S	A3510408S	0.38
	3/4"	1.12	1.81	A3410412	A3510412	1.20	1.00	1.41	A3410412S	A3510412S	0.55
	1"	1.31	2.19	A3410416	A3510416	1.94	1.06	1.74	A3410416S	A3510416S	0.92
	1 1/4"	1.38	2.44	A3410420	A3510420	2.18	1.19	2.10	A3410420S	A3510420S	1.28
	1 1/2"	1.69	2.97	A3410424	A3510424	3.50	1.31	2.36	A3410424S	A3510424S	1.63
	2"	1.72	3.31	A3410432	A3510432	4.71	1.62	2.89	A3410432S	A3510432S	2.69
	2 1/2"	2.06	4.00	A3410440	A3510440	7.35	1.74	3.54	A3410440S	A3510440S	6.75
	3"	2.50	4.75	A3410448	A3510448	12.60	1.87	4.21	A3410448S	A3510448S	10.50

3000lb Forged Stainless Steel Fittings

90° Street Elbows	Size	Threaded					Socket Weld				
		A	B	304 Item Number	316 Item Number	Weight	A	B	304 Item Number	316 Item Number	Weight
	1/8"	1.25	0.97	A3410602	A3510602	0.25	N/A	N/A	Unavailable	Unavailable	N/A
	1/4"	1.25	0.97	A3410604	A3510604	0.25	N/A	N/A	Unavailable	Unavailable	N/A
	3/8"	1.50	1.12	A3410606	A3510606	0.38	N/A	N/A	Unavailable	Unavailable	N/A
	1/2"	1.69	1.31	A3410608	A3510608	0.58	N/A	N/A	Unavailable	Unavailable	N/A
	3/4"	1.94	1.50	A3410612	A3510612	0.92	N/A	N/A	Unavailable	Unavailable	N/A
	1"	2.31	1.75	A3410616	A3510616	1.44	N/A	N/A	Unavailable	Unavailable	N/A
	1 1/4"	2.69	2.00	A3410620	A3510620	2.44	N/A	N/A	Unavailable	Unavailable	N/A
	1 1/2"	2.81	2.38	A3410624	A3510624	3.95	N/A	N/A	Unavailable	Unavailable	N/A
	2"	3.38	2.50	A3410632	A3510632	5.28	N/A	N/A	Unavailable	Unavailable	N/A



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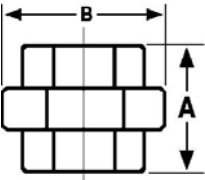


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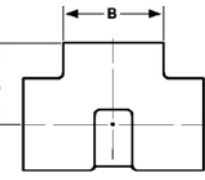
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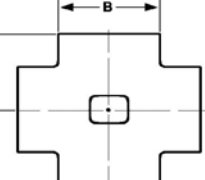
3000lb Forged Stainless Steel Fittings

Unions	Size	Threaded					Socket Weld				
		A	B	304 Item Number	316 Item Number	Weight	A	B	304 Item Number	316 Item Number	Weight
	1/8"	1.66	1.48	A3440802	A3540802	0.38	1.66	1.48	A3440802S	A3540802S	0.34
	1/4"	1.66	1.48	A3440804	A3540804	0.36	1.66	1.48	A3440804S	A3540804S	0.34
	3/8"	1.83	1.66	A3440806	A3540806	0.50	1.83	1.66	A3440806S	A3540806S	0.49
	1/2"	2.00	1.93	A3440808	A3540808	0.70	2.00	1.93	A3440808S	A3540808S	0.68
	3/4"	2.31	2.38	A3440812	A3540812	1.18	2.31	2.38	A3440812S	A3540812S	1.19
	1"	2.42	2.78	A3440816	A3540816	1.64	2.42	2.78	A3440816S	A3540816S	1.68
	1 1/4"	2.86	3.35	A3440820	A3540820	2.59	2.86	3.35	A3440820S	A3540820S	2.54
	1 1/2"	3.00	3.70	A3440824	A3540824	3.41	3.00	3.70	A3440824S	A3540824S	3.33
	2"	3.50	4.42	A3440832	A3540832	5.12	3.50	4.42	A3440832S	A3540832S	5.30
	2 1/2"	4.25	5.22	A3440840	A3540840	8.75	4.25	5.22	A3440840S	A3540840S	8.50
	3"	4.42	6.15	A3440848	A3540848	12.60	4.42	6.15	A3440848S	A3540848S	12.70

3000lb Forged Stainless Steel Fittings

Tees	Size	Threaded					Socket Weld				
		A	B	304 Item Number	316 Item Number	Weight	A	B	304 Item Number	316 Item Number	Weight
	1/8"	0.81	0.88	A3420002	A3520002	0.35	0.82	0.68	A3420002S	A3520002S	0.25
	1/4"	0.97	1.00	A3420004	A3520004	0.42	0.82	0.82	A3420004S	A3520004S	0.31
	3/8"	1.12	1.31	A3420006	A3520006	0.77	0.91	0.98	A3420006S	A3520006S	0.35
	1/2"	1.31	1.50	A3420008	A3520008	1.25	1.00	1.20	A3420008S	A3520008S	0.72
	3/4"	1.50	1.81	A3420012	A3520012	1.85	1.25	1.41	A3420012S	A3520012S	1.03
	1"	1.75	2.19	A3420016	A3520016	3.07	1.38	1.74	A3420016S	A3520016S	1.45
	1 1/4"	2.00	2.44	A3420020	A3520020	3.55	1.56	2.10	A3420020S	A3520020S	2.15
	1 1/2"	2.38	2.97	A3420024	A3520024	6.72	1.75	2.36	A3420024S	A3520024S	2.95
	2"	2.50	3.31	A3420032	A3520032	7.20	2.12	2.89	A3420032S	A3520032S	4.85
	2 1/2"	3.25	4.00	A3420040	A3520040	13.10	2.24	3.54	A3420040S	A3520040S	10.20
	3"	3.75	4.75	A3420048	A3520048	21.60	2.87	4.21	A3420048S	A3520048S	16.30
	4"	4.50	6.00	A3420064	A3520064	39.70	3.37	5.30	A3420064S	A3520064S	28.60

3000lb Forged Stainless Steel Fittings

Crosses	Size	Threaded					Socket Weld				
		A	B	304 Item Number	316 Item Number	Weight	A	B	304 Item Number	316 Item Number	Weight
	1/8"	0.81	0.88	A3430202	A3530202	0.42	N/A	N/A	A3430202S	A3530202S	N/A
	1/4"	0.97	1.00	A3430204	A3530204	0.52	0.82	0.82	A3430204S	A3530204S	0.25
	3/8"	1.12	1.31	A3430206	A3530206	0.98	0.91	0.98	A3430206S	A3530206S	0.34
	1/2"	1.31	1.50	A3430208	A3530208	1.48	1.00	1.20	A3430208S	A3530208S	0.75
	3/4"	1.50	1.81	A3430212	A3530212	2.52	1.25	1.41	A3430212S	A3530212S	1.00
	1"	1.75	2.19	A3430216	A3530216	3.58	1.38	1.74	A3430216S	A3530216S	1.49
	1 1/4"	2.00	2.44	A3430220	A3530220	4.10	1.56	2.10	A3430220S	A3530220S	2.20
	1 1/2"	2.38	2.97	A3430224	A3530224	6.55	1.75	2.36	A3430224S	A3530224S	2.81
	2"	2.50	3.31	A3430232	A3530232	8.12	2.12	2.89	A3430232S	A3530232S	4.77



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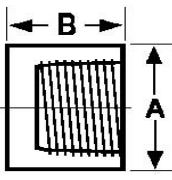


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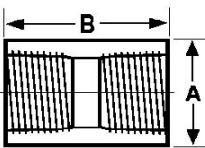
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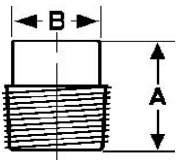
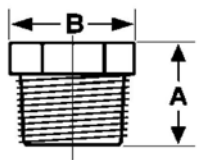
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3000lb Forged Stainless Steel Fittings

Caps	Size	Threaded					Socket Weld				
		A	B	304 Item Number	316 Item Number	Weight	A	B	304 Item Number	316 Item Number	Weight
	1/8"	0.62	0.75	A3440502	A3540502	0.04	0.63	0.75	A3440502S	A3540502S	0.06
	1/4"	0.75	1.00	A3440504	A3540504	0.07	0.63	1.00	A3440504S	A3540504S	0.08
	3/8"	0.88	1.00	A3440506	A3540506	0.13	0.69	1.06	A3440506S	A3540506S	0.15
	1/2"	1.12	1.25	A3440508	A3540508	0.25	0.81	1.31	A3440508S	A3540508S	0.25
	3/4"	1.33	1.44	A3440512	A3540512	0.36	0.81	1.50	A3440512S	A3540512S	0.33
	1"	1.75	1.62	A3440516	A3540516	0.62	0.94	1.88	A3440516S	A3540516S	0.49
	1 1/4"	2.25	1.75	A3440520	A3540520	1.12	0.94	2.25	A3440520S	A3540520S	0.88
	1 1/2"	2.50	1.75	A3440524	A3540524	1.56	1.00	2.50	A3440524S	A3540524S	1.14
	2"	3.00	1.88	A3440532	A3540532	2.85	1.19	3.00	A3440532S	A3540532S	1.80
	2 1/2"	3.62	2.38	A3440540	A3540540	5.00	1.31	3.63	A3440540S	A3540540S	2.90
	3"	4.25	2.56	A3440548	A3540548	8.50	1.50	4.25	A3440548S	A3540548S	4.23
	4"	5.50	2.69	A3440564	A3540564	13.50	1.75	5.50	A3440564S	A3540564S	7.55

3000lb Forged Stainless Steel Fittings

Couplings	Size	Threaded					Socket Weld				
		A	B	304 Item Number	316 Item Number	Weight	A	B	304 Item Number	316 Item Number	Weight
	1/8"	0.62	1.25	A3430402	A3530402	0.11	1.01	0.68	A3430402S	A3530402S	0.10
	1/4"	0.75	1.38	A3430404	A3530404	0.10	1.01	0.82	A3430404S	A3530404S	0.12
	3/8"	0.88	1.50	A3430406	A3530406	0.12	1.01	0.98	A3430406S	A3530406S	0.18
	1/2"	1.12	1.88	A3430408	A3530408	0.28	1.14	1.20	A3430408S	A3530408S	0.25
	3/4"	1.33	2.00	A3430412	A3530412	0.43	1.38	1.41	A3430412S	A3530412S	0.39
	1"	1.75	2.38	A3430416	A3530416	0.88	1.50	1.74	A3430416S	A3530416S	0.71
	1 1/4"	2.25	2.62	A3430420	A3530420	1.56	1.50	2.10	A3430420S	A3530420S	0.84
	1 1/2"	2.50	3.12	A3430424	A3530424	2.15	1.50	2.36	A3430424S	A3530424S	1.10
	2"	3.00	3.38	A3430432	A3530432	3.06	2.00	2.89	A3430432S	A3530432S	1.83
	2 1/2"	3.62	3.62	A3430440	A3530440	4.76	2.00	3.54	A3430440S	A3530440S	2.44
	3"	4.25	4.25	A3430448	A3530448	6.62	2.00	4.21	A3430448S	A3530448S	3.52
	4"	5.50	4.75	A3430464	A3530464	14.50	2.25	5.30	A3430464S	A3530464S	5.58

Plugs	Size	Square Head					Hex Head				
		A	B	304 Item Number	316 Item Number	Weight	A	B	304 Item Number	316 Item Number	Weight
 	1/8"	0.63	0.28	A3450102	A3550102	0.02	0.63	0.44	A3450302	A3550302	0.03
	1/4"	0.69	0.38	A3450104	A3550104	0.03	0.69	0.62	A3450304	A3550304	0.05
	3/8"	0.81	0.44	A3450106	A3550106	0.06	0.81	0.69	A3450306	A3550306	0.09
	1/2"	0.94	0.56	A3450108	A3550108	0.11	0.87	0.88	A3450308	A3550308	0.16
	3/4"	1.06	0.62	A3450112	A3550112	0.18	1.00	1.06	A3450312	A3550312	0.27
	1"	1.25	0.81	A3450116	A3550116	0.35	1.13	1.38	A3450316	A3550316	0.48
	1 1/4"	1.37	0.94	A3450120	A3550120	0.60	1.37	1.75	A3450320	A3550320	0.95
	1 1/2"	1.43	1.12	A3450124	A3550124	0.82	1.43	2.00	A3450324	A3550324	1.32
	2"	1.57	1.31	A3450132	A3550132	1.36	1.57	2.50	A3450332	A3550332	2.23
	2 1/2"	1.81	1.50	A3450140	A3550140	2.21	1.81	3.00	A3450340	A3550340	3.81
	3"	1.93	1.69	A3450148	A3550148	3.47	1.93	3.50	A3450348	A3550348	4.75
	4"	2.25	2.50	A3450164	A3550164	8.64	2.25	4.62	A3450364	A3550364	13.00



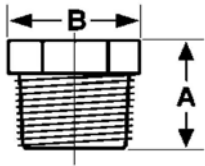
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Forged Hex Bushings

Size	A	B	304 Item Number	316 Item Number	Weight
1/4" x 1/8"	0.56	0.62	A344000402	A354000402	0.02
3/8" x 1/8"	0.66	0.69	A344000602	A354000602	0.04
3/8" x 1/4"	0.66	0.69	A344000604	A354000604	0.04
1/2" x 1/8"	0.75	0.88	A344000802	A354000802	0.06
1/2" x 1/4"	0.75	0.88	A344000804	A354000804	0.06
1/2" x 3/8"	0.75	0.88	A344000806	A354000806	0.06
3/4" x 1/8"	0.84	1.06	A344001202	A354001202	0.11
3/4" x 1/4"	0.84	1.06	A344001204	A354001204	0.11
3/4" x 3/8"	0.84	1.06	A344001206	A354001206	0.11
3/4" x 1/2"	0.84	1.06	A344001208	A354001208	0.11
1" x 1/8"	1.00	1.38	A344001602	A354001602	0.19
1" x 1/4"	1.00	1.38	A344001604	A354001604	0.19
1" x 3/8"	1.00	1.38	A344001606	A354001606	0.19
1" x 1/2"	1.00	1.38	A344001608	A354001608	0.19
1" x 3/4"	1.00	1.38	A344001612	A354001612	0.19
1 1/4" x 1/4"	1.09	1.75	A344002004	A354002004	0.39
1 1/4" x 3/8"	1.09	1.75	A344002006	A354002006	0.39
1 1/4" x 1/2"	1.09	1.75	A344002008	A354002008	0.39
1 1/4" x 3/4"	1.09	1.75	A344002012	A354002012	0.39
1 1/4" x 1"	1.09	1.75	A344002016	A354002016	0.39
1 1/2" x 1/4"	1.12	2.00	A344002404	A354002404	0.63
1 1/2" x 3/8"	1.12	2.00	A344002406	A354002406	0.63
1 1/2" x 1/2"	1.12	2.00	A344002408	A354002408	0.63
1 1/2" x 3/4"	1.12	2.00	A344002412	A354002412	0.63
1 1/2" x 1"	1.12	2.00	A344002416	A354002416	0.63
1 1/2" x 1 1/4"	1.12	2.00	A344002420	A354002420	0.63
2" x 3/8"	1.22	2.50	A344003206	A354003206	0.79
2" x 1/2"	1.22	2.50	A344003208	A354003208	0.79
2" x 3/4"	1.22	2.50	A344003212	A354003212	0.79
2" x 1"	1.22	2.50	A344003216	A354003216	0.79
2" x 1 1/4"	1.22	2.50	A344003220	A354003220	0.79
2" x 1 1/2"	1.22	2.50	A344003224	A354003224	0.79
2 1/2" x 1/2"	1.44	3.00	A344004008	A354004008	1.19
2 1/2" x 3/4"	1.44	3.00	A344004012	A354004012	1.19
2 1/2" x 1"	1.44	3.00	A344004016	A354004016	1.19
2 1/2" x 1 1/4"	1.44	3.00	A344004020	A354004020	1.19
2 1/2" x 1 1/2"	1.44	3.00	A344004024	A354004024	1.19
2 1/2" x 2"	1.44	3.00	A344004032	A354004032	1.19
3" x 1"	1.53	3.50	A344004816	A354004816	2.56
3" x 1 1/4"	1.53	3.50	A344004820	A354004820	2.56
3" x 1 1/2"	1.53	3.50	A344004824	A354004824	2.56
3" x 2"	1.53	3.50	A344004832	A354004832	2.56
3" x 2 1/2"	1.53	3.50	A344004840	A354004840	2.56
4" x 1"	1.75	4.62	A344006416	A354006416	7.06
4" x 1 1/4"	1.75	4.62	A344006420	A354006420	7.06
4" x 1 1/2"	1.75	4.62	A344006424	A354006424	7.06
4" x 2"	1.75	4.62	A344006432	A354006432	7.06
4" x 2 1/2"	1.75	4.62	A344006440	A354006440	7.06
4" x 3"	1.75	4.62	A344006448	A354006448	7.06

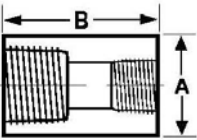


3000lb Forged Stainless Steel Fittings

Threaded

Socket Weld

Reducer Couplings



Size	A	B	304 Item Number	316 Item Number	Weight	A	B	304 Item Number	316 Item Number	Weight
1/4" x 1/8"	0.75	1.38	A343080402	A353080402	0.11	N/A	N/A	A343080402S	A353080402S	N/A
3/8" x 1/8"	0.88	1.50	A343080602	A353080602	0.16	N/A	N/A	A343080602S	A353080602S	N/A
3/8" x 1/4"	0.88	1.50	A343080604	A353080604	0.16	N/A	N/A	A343080604S	A353080604S	N/A
1/2" x 1/8"	1.12	1.88	A343080802	A353080802	0.32	N/A	N/A	A343080802S	A353080802S	N/A
1/2" x 1/4"	1.12	1.88	A343080804	A353080804	0.32	1.14	1.23	A343080804S	A353080804S	0.28
1/2" x 3/8"	1.12	1.88	A343080806	A353080806	0.32	1.14	1.23	A343080806S	A353080806S	0.27
3/4" x 1/8"	1.33	2.00	A343081202	A353081202	0.50	1.38	1.46	A343081202S	A353081202S	0.43
3/4" x 1/4"	1.33	2.00	A343081204	A353081204	0.50	1.38	1.46	A343081204S	A353081204S	0.42
3/4" x 3/8"	1.33	2.00	A343081206	A353081206	0.50	1.38	1.46	A343081206S	A353081206S	0.41
3/4" x 1/2"	1.33	2.00	A343081208	A353081208	0.50	1.38	1.46	A343081208S	A353081208S	0.40
1" x 1/4"	1.75	2.38	A343081604	A353081604	0.98	1.50	1.78	A343081604S	A353081604S	0.79
1" x 3/8"	1.75	2.38	A343081606	A353081606	0.98	1.50	1.78	A343081606S	A353081606S	0.77
1" x 1/2"	1.75	2.38	A343081608	A353081608	0.98	1.50	1.78	A343081608S	A353081608S	0.75
1" x 3/4"	1.75	2.38	A343081612	A353081612	0.98	1.50	1.78	A343081612S	A353081612S	0.73
1 1/4" x 3/8"	2.25	2.62	A343082006	A353082006	1.87	N/A	N/A	A343082006S	A353082006S	N/A
1 1/4" x 1/2"	2.25	2.62	A343082008	A353082008	1.87	1.50	2.16	A343082008S	A353082008S	0.90
1 1/4" x 3/4"	2.25	2.62	A343082012	A353082012	1.87	1.50	2.16	A343082012S	A353082012S	0.88
1 1/4" x 1"	2.25	2.62	A343082016	A353082016	1.87	1.50	2.16	A343082016S	A353082016S	0.86
1 1/2" x 3/8"	2.50	3.12	A343082406	A353082406	2.41	1.50	2.42	A343082406S	A353082406S	1.30
1 1/2" x 1/2"	2.50	3.12	A343082408	A353082408	2.41	1.50	2.42	A343082408S	A353082408S	1.28
1 1/2" x 3/4"	2.50	3.12	A343082412	A353082412	2.41	1.50	2.42	A343082412S	A353082412S	1.25
1 1/2" x 1"	2.50	3.12	A343082416	A353082416	2.41	1.50	2.42	A343082416S	A353082416S	1.20
1 1/2" x 1 1/4"	2.50	3.12	A343082420	A353082420	2.41	1.50	2.42	A343082420S	A353082420S	1.15
2" x 1/2"	3.00	3.62	A343083208	A353083208	3.71	2.00	2.96	A343083208S	A353083208S	2.00
2" x 3/4"	3.00	3.62	A343083212	A353083212	3.71	2.00	2.96	A343083212S	A353083212S	1.95
2" x 1"	3.00	3.62	A343083216	A353083216	3.71	2.00	2.96	A343083216S	A353083216S	1.91
2" x 1 1/4"	3.00	3.62	A343083220	A353083220	3.71	2.00	2.96	A343083220S	A353083220S	1.88
2" x 1 1/2"	3.00	3.62	A343083224	A353083224	3.71	2.00	2.96	A343083224S	A353083224S	1.85
2 1/2" x 1/2"	3.62	3.62	A343084008	A353084008	5.92	2.00	3.70	A343084008S	A353084008S	2.75
2 1/2" x 3/4"	3.62	3.62	A343084012	A353084012	5.92	2.00	3.70	A343084012S	A353084012S	2.70
2 1/2" x 1"	3.62	3.62	A343084016	A353084016	5.92	2.00	3.70	A343084016S	A353084016S	2.65
2 1/2" x 1 1/4"	3.62	3.62	A343084020	A353084020	5.92	2.00	3.70	A343084020S	A353084020S	2.60
2 1/2" x 1 1/2"	3.62	3.62	A343084024	A353084024	5.92	2.00	3.70	A343084024S	A353084024S	2.55
2 1/2" x 2"	3.62	3.62	A343084032	A353084032	5.92	2.00	3.70	A343084032S	A353084032S	2.50
3" x 1"	4.25	4.25	A343084816	A353084816	10.10	2.00	4.30	A343084816S	A353084816S	3.80
3" x 1 1/4"	4.25	4.25	A343084820	A353084820	10.10	2.00	4.30	A343084820S	A353084820S	3.75
3" x 1 1/2"	4.25	4.25	A343084824	A353084824	10.10	2.00	4.30	A343084824S	A353084824S	3.70
3" x 2"	4.25	4.25	A343084832	A353084832	10.10	2.00	4.30	A343084832S	A353084832S	3.65
3" x 2 1/2"	4.25	4.25	A343084840	A353084840	10.10	2.00	4.30	A343084840S	A353084840S	3.60
4" x 1 1/2"	5.50	4.75	A343086424	A353086424	14.70	2.25	5.39	A343086424S	A353086424S	6.00
4" x 2"	5.50	4.75	A343086432	A353086432	14.70	2.25	5.39	A343086432S	A353086432S	5.90
4" x 2 1/2"	5.50	4.75	A343086440	A353086440	14.70	2.25	5.39	A343086440S	A353086440S	5.80
4" x 3"	5.50	4.75	A343086448	A353086448	14.70	2.25	5.39	A343086448S	A353086448S	5.70

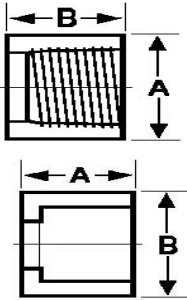


3000lb Forged Stainless Steel Fittings

Threaded

Socket Weld

Half Couplings

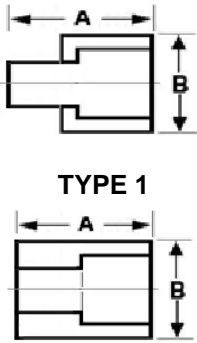


Size	A	B	304 Item Number	316 Item Number	Weight	A	B	304 Item Number	316 Item Number	Weight
1/8"	0.62	0.62	A3430602	A3530602	0.06	N/A	N/A	A3430602S	A3530602S	N/A
1/4"	0.75	0.69	A3430604	A3530604	0.05	1.00	0.82	A3430604S	A3530604S	0.14
3/8"	0.88	0.75	A3430606	A3530606	0.06	1.07	0.98	A3430606S	A3530606S	0.18
1/2"	1.12	0.94	A3430608	A3530608	0.14	1.26	1.20	A3430608S	A3530608S	0.21
3/4"	1.33	1.00	A3430612	A3530612	0.21	1.44	1.41	A3430612S	A3530612S	0.33
1"	1.75	1.17	A3430616	A3530616	0.44	1.62	1.74	A3430616S	A3530616S	0.64
1 1/4"	2.25	1.31	A3430620	A3530620	0.77	1.69	2.10	A3430620S	A3530620S	0.96
1 1/2"	2.50	1.56	A3430624	A3530624	1.08	1.75	2.36	A3430624S	A3530624S	1.22
2"	3.00	1.67	A3430632	A3530632	1.48	2.24	2.89	A3430632S	A3530632S	2.10
2 1/2"	3.62	1.81	A3430640	A3530640	2.37	2.31	3.54	A3430640S	A3530640S	3.08
3"	4.25	2.12	A3430648	A3530648	3.30	2.37	4.21	A3430648S	A3530648S	4.29
4"	5.50	2.37	A3430664	A3530664	7.25	2.63	5.30	A3430664S	A3530664S	7.05

3000lb Forged Stainless Steel Fittings

Socket Weld

Inserts

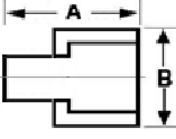
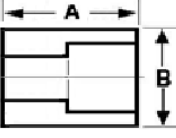


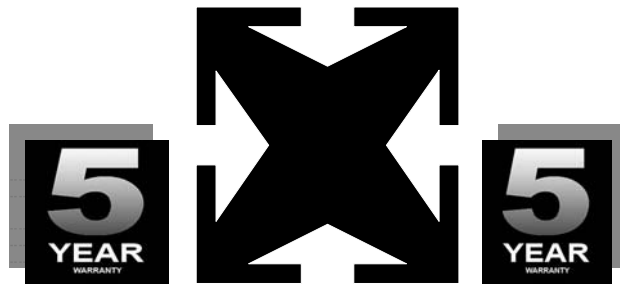
Size	A	B	304 Item Number	316 Item Number	Weight	Type
1/4" x 1/8"	1.26	0.87	A343170402	A353170402	0.04	1
3/8" x 1/4"	1.18	0.88	A343170604	A353170604	0.11	1
1/2" x 1/4"	1.28	0.88	A343170804	A353170804	0.20	1
1/2" x 3/8"	1.28	1.02	A343170806	A353170806	0.20	1
3/4" x 1/4"	1.15	1.06	A343171204	A353171204	0.30	1
3/4" x 3/8"	1.15	1.06	A343171206	A353171206	0.30	2
3/4" x 1/2"	1.39	1.26	A343171208	A353171208	0.30	2
1" x 1/4"	1.19	1.34	A343171604	A353171604	0.50	2
1" x 3/8"	1.19	1.34	A343171606	A353171606	0.50	2
1" x 1/2"	1.19	1.34	A343171608	A353171608	0.30	2
1" x 3/4"	1.55	1.50	A343171612	A353171612	0.50	1
1-1/4" x 1/4"	1.30	1.65	A343172004	A353172004	0.90	2
1-1/4" x 3/8"	1.30	1.65	A343172006	A353172006	0.90	2
1-1/4" x 1/2"	1.30	1.65	A343172008	A353172008	0.90	2
1-1/4" x 3/4"	1.30	1.65	A343172012	A353172012	0.90	2
1-1/4" x 1"	1.62	1.81	A343172016	A353172016	0.90	1
1-1/2" x 3/8"	1.35	1.89	A343172406	A353172406	1.20	2
1-1/2" x 1/2"	1.35	1.89	A343172408	A353172408	0.90	2
1-1/2" x 3/4"	1.35	1.89	A343172412	A353172412	1.20	2
1-1/2" x 1"	1.35	1.89	A343172416	A353172416	0.60	2
1-1/2" x 1-1/4"	1.82	2.25	A343172420	A353172420	1.20	1
2" x 1/2"	1.53	2.36	A343173208	A353173208	1.90	2
2" x 3/4"	1.53	2.36	A343173212	A353173212	1.90	2
2" x 1"	1.53	2.36	A343173216	A353173216	1.90	2
2" x 1-1/4"	1.53	2.36	A343173220	A353173220	1.90	2
2" x 1-1/2"	2.00	2.50	A343173224	A353173224	1.90	1



3000lb Forged Stainless Steel Fittings

Socket Weld

Inserts	Size	A	B	304 Item Number	316 Item Number	Weight	Type
 <p>TYPE 1</p>	2-1/2" x 1/2"	2.15	2.87	A343174008	A353174008	2.6	2
	2-1/2" x 3/4"	2.15	2.87	A343174012	A353174012	2.6	2
	2-1/2" x 1"	2.15	2.87	A343174016	A353174016	2.6	2
	2-1/2" x 1-1/4"	2.15	2.87	A343174020	A353174020	2.6	2
	2-1/2" x 1-1/2"	2.15	2.87	A343174024	A353174024	2.6	2
 <p>TYPE 2</p>	2-1/2" x 2"	2.73	2.96	A343174032	A353174032	2.6	1
	3" x 1"	1.92	3.50	A343174816	A353174816	3.9	2
	3" x 1-1/4"	1.92	3.50	A343174820	A353174820	3.9	2
	3" x 1-1/2"	1.92	3.50	A343174824	A353174824	4.1	2
	3" x 2"	1.92	3.50	A343174832	A353174832	4.1	2
	3" x 2-1/2"	1.92	3.62	A343174840	A353174840	3.9	2



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.