



# STAINLESS STEEL FLANGES

## Product Specifications



- ✘ *Manufactured in ISO9000:2000 Facility*
- ✘ *Items Manufactured To ASTM/ASME A182/SA182*
- ✘ *Threaded Flanges Conform to ANSI B1.20.1*



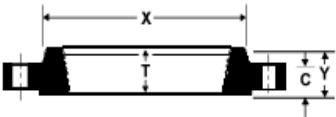
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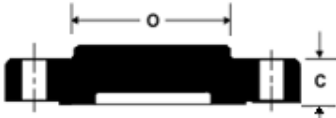
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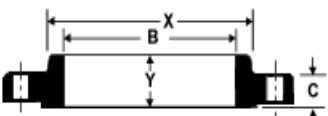
# MSI Stainless Steel ANSI Flange Specifications

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ASTM / ASME A182/SA182 - Threaded to ANSI B1.20.1

Threaded Flanges	Size - OD"	Bolt Boles	Dia. Of Holes	C	X	T	Y	Weight Ea. /lbs.	304ss Item Number	316ss Item Number
	1/2" - 3.500"	4	0.62	0.50	1.50	0.62	0.62	2.00	A3460008	A3560008
	3/4" - 3.875"	4	0.62	0.56	1.88	0.62	0.62	2.00	A3460012	A3560012
	1" - 4.250"	4	0.62	0.62	2.12	0.69	0.69	2.00	A3460016	A3560016
	1 1/4" - 4.625"	4	0.62	0.69	2.50	0.81	0.81	3.00	A3460020	A3560020
	1 1/2" - 5.000"	4	0.62	0.75	2.75	0.88	0.88	3.00	A3460024	A3560024
	2" - 6.000"	4	0.75	0.81	3.31	1.00	1.00	5.00	A3460032	A3560032
	2 1/2" - 7.000"	4	0.75	0.94	3.94	1.12	1.12	7.00	A3460040	A3560040
	3" - 7.500"	4	0.75	1.06	4.62	1.19	1.19	8.00	A3460048	A3560048
	4" - 9.000"	8	0.78	1.19	5.75	1.31	1.31	13.00	A3460064	A3560064
	5" - 10.000"	8	0.88	1.31	7.00	1.44	1.44	15.00	A3460070	A3560070
	6" - 11.000"	8	0.88	1.38	8.12	1.56	1.56	19.00	A3460072	A3560072
	8" - 13.500"	8	0.88	1.56	10.25	1.75	1.75	30.00	A3460084	A3560084

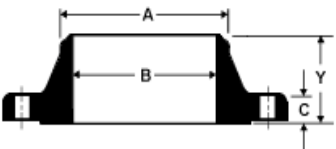
Blind Flanges	Size - OD"	Bolt Boles	Dia. Of Holes	C	O	Weight Ea. /lbs.	304ss Item Number	316ss Item Number
	1/2" - 3.500"	4	0.62	0.50	1.38	2.00	A3460408	A3560408
	3/4" - 3.875"	4	0.62	0.56	1.69	2.00	A3460412	A3560412
	1" - 4.250"	4	0.62	0.62	2.00	2.00	A3460416	A3560416
	1 1/4" - 4.625"	4	0.62	0.69	2.50	3.00	A3460420	A3560420
	1 1/2" - 5.000"	4	0.62	0.75	2.88	4.00	A3460424	A3560424
	2" - 6.000"	4	0.75	0.81	3.62	4.00	A3460432	A3560432
	2 1/2" - 7.000"	4	0.75	0.94	4.12	11.00	A3460440	A3560440
	3" - 7.500"	4	0.75	1.06	5.00	14.00	A3460448	A3560448
	4" - 9.000"	8	0.78	1.19	6.19	19.00	A3460464	A3560464
	5" - 10.000"	8	0.88	1.31	7.31	21.00	A3460470	A3560470
	6" - 11.000"	8	0.88	1.38	8.50	28.00	A3460472	A3560472
	8" - 13.500"	8	0.88	1.56	10.62	48.00	A3460484	A3560484

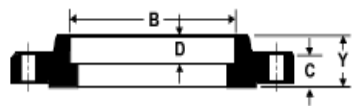
Slip-On Flanges	Size - OD"	Bolt Boles	Dia. Of Holes	C	X	B	Y	Weight Ea. /lbs.	304ss Item Number	316ss Item Number
	1/2" - 3.500"	4	0.62	0.50	1.38	0.88	0.56	2.00	A3460808	A3560808
	3/4" - 3.875"	4	0.62	0.56	1.69	1.09	0.56	2.00	A3460812	A3560812
	1" - 4.250"	4	0.62	0.62	2.00	1.36	0.62	2.00	A3460816	A3560816
	1 1/4" - 4.625"	4	0.62	0.69	2.50	1.70	0.75	3.00	A3460820	A3560820
	1 1/2" - 5.000"	4	0.62	0.75	2.88	1.95	0.81	3.00	A3460824	A3560824
	2" - 6.000"	4	0.75	0.81	3.62	2.44	0.94	5.00	A3460832	A3560832
	2 1/2" - 7.000"	4	0.75	0.94	4.12	2.94	1.06	7.00	A3460840	A3560840
	3" - 7.500"	4	0.75	1.06	5.00	3.57	1.12	8.00	A3460848	A3560848
	4" - 9.000"	8	0.78	1.19	6.19	4.57	1.25	13.00	A3460864	A3560864
	5" - 10.000"	8	0.88	1.31	7.31	5.66	1.38	15.00	A3460870	A3560870
	6" - 11.000"	8	0.88	1.38	8.50	6.72	1.50	19.00	A3460872	A3560872
	8" - 13.500"	8	0.88	1.56	10.62	8.72	1.69	30.00	A3460884	A3560884

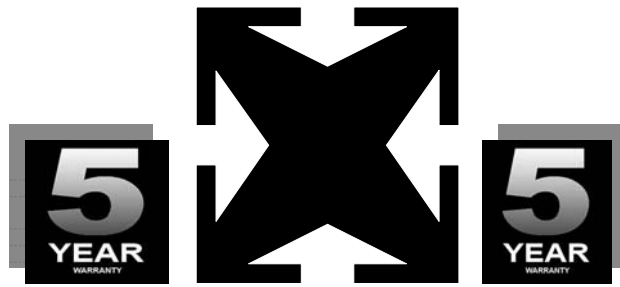
# MSI Stainless Steel ANSI Flange Specifications

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ASTM / ASME A182/SA182 - Threaded to ANSI B1.20.1

Weld Neck Flanges	Size - OD"	Bolt Boles	Dia. Of Holes	C	A	B	Y	Weight Ea. /lbs.	304ss Item Number	316ss Item Number
	1/2" - 3.500"	4	0.62	0.50	0.84	0.88	1.88	2.00	A3461308	A3561308
	3/4" - 3.875"	4	0.62	0.56	1.05	1.09	2.06	2.00	A3461312	A3561312
	1" - 4.250"	4	0.62	0.62	1.32	1.36	2.19	2.00	A3461316	A3561316
	1 1/4" - 4.625"	4	0.62	0.69	1.66	1.70	2.25	4.00	A3461320	A3561320
	1 1/2" - 5.000"	4	0.62	0.75	1.90	1.95	2.44	5.00	A3461324	A3561324
	2" - 6.000"	4	0.75	0.81	2.38	2.44	2.50	9.00	A3461332	A3561332
	2 1/2" - 7.000"	4	0.75	0.94	2.88	2.94	2.75	11.00	A3461340	A3561340
	3" - 7.500"	4	0.75	1.06	3.50	3.57	2.75	14.00	A3461348	A3561348
	4" - 9.000"	8	0.78	1.19	4.50	4.57	3.00	16.00	A3461364	A3561364
	5" - 10.000"	8	0.88	1.31	5.56	5.66	3.50	21.00	A3461370	A3561370
	6" - 11.000"	8	0.88	1.38	6.63	6.72	3.50	25.00	A3461372	A3561372
	8" - 13.500"	8	0.88	1.56	8.63	8.72	4.00	40.00	A3461384	A3561384

Socket Weld Flanges	Size - OD"	Bolt Boles	Dia. Of Holes	C	D	B	Y	Weight Ea. /lbs.	304ss Item Number	316ss Item Number
	1/2" - 3.500"	4	0.62	0.50	0.38	0.88	0.56	2.00	A3463208	A3563208
	3/4" - 3.875"	4	0.62	0.56	0.44	1.09	0.56	2.00	A3463212	A3563212
	1" - 4.250"	4	0.62	0.62	0.50	1.36	0.62	2.00	A3463216	A3563216
	1 1/4" - 4.625"	4	0.62	0.69	0.56	1.70	0.75	3.00	A3463220	A3563220
	1 1/2" - 5.000"	4	0.62	0.75	0.62	1.95	0.81	3.00	A3463224	A3563224
	2" - 6.000"	4	0.75	0.81	0.69	2.44	0.94	5.00	A3463232	A3563232
	2 1/2" - 7.000"	4	0.75	0.94	0.75	2.94	1.06	7.00	A3463240	A3563240
	3" - 7.500"	4	0.75	1.06	0.81	3.57	1.12	8.00	A3463248	A3563248
	4" - 9.000"	8	0.78	1.19	0.94	4.57	1.25	13.00	A3463264	A3563264
	5" - 10.000"	8	0.88	1.31	1.04	5.66	1.38	15.00	A3463270	A3563270
	6" - 11.000"	8	0.88	1.38	1.06	6.72	1.50	19.00	A3463272	A3563272
	8" - 13.500"	8	0.88	1.56	1.25	8.72	1.69	30.00	A3463284	A3563284



# **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.