



CLASS 150 & CLASS 300 FORGED STEEL ANSI FLANGES

Forged Steel ANSI Flange Product Specifications



- ✘ *Forged Steel Flanges Stocked from 1/2" - 12"*
- ✘ *Dimensions Conform to ANSI B1.16.5*
- ✘ *Material Conforms to ASTM A105*



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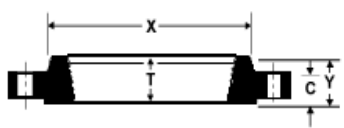
MSI Steel ANSI Flange Specifications

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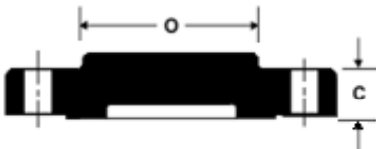
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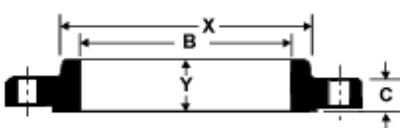
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ANSI B16.5 150lb Forged Steel Flanges Material Conforms to ASTM A105

| Threaded Flanges | Size - OD" | Bolt Boles | Dia. Of Holes | "C" Thickness | "X" Diameter | "T" Thread Length | "Y" Length Thru Hub | Class 150 Item Number | Weight Ea. /lbs. |
|--|-----------------|------------|---------------|---------------|--------------|-------------------|---------------------|-----------------------|------------------|
|  | 1/2" - 3.500" | 4 | 0.62 | 0.50 | 1.50 | 0.62 | 0.62 | A2460008 | 2.00 |
| | 3/4" - 3.875" | 4 | 0.62 | 0.56 | 1.88 | 0.62 | 0.62 | A2460012 | 2.00 |
| | 1" - 4.250" | 4 | 0.62 | 0.62 | 2.12 | 0.69 | 0.69 | A2460016 | 2.00 |
| | 1 1/4" - 4.625" | 4 | 0.62 | 0.69 | 2.50 | 0.81 | 0.81 | A2460020 | 3.00 |
| | 1 1/2" - 5.000" | 4 | 0.62 | 0.75 | 2.75 | 0.88 | 0.88 | A2460024 | 3.00 |
| | 2" - 6.000" | 4 | 0.75 | 0.81 | 3.31 | 1.00 | 1.00 | A2460032 | 5.00 |
| | 2 1/2" - 7.000" | 4 | 0.75 | 0.94 | 3.94 | 1.12 | 1.12 | A2460040 | 7.00 |
| | 3" - 7.500" | 4 | 0.75 | 1.06 | 4.62 | 1.19 | 1.19 | A2460048 | 8.00 |
| | 4" - 9.000" | 8 | 0.78 | 1.19 | 5.75 | 1.31 | 1.31 | A2460064 | 13.00 |
| | 5" - 10.000" | 8 | 0.88 | 1.31 | 7.00 | 1.44 | 1.44 | A2460070 | 15.00 |
| 6" - 11.000" | 8 | 0.88 | 1.38 | 8.12 | 1.56 | 1.56 | A2460072 | 19.00 | |
| 8" - 13.500" | 8 | 0.88 | 1.56 | 10.25 | 1.75 | 1.75 | A2460084 | 30.00 | |

Threaded Flanges conform to ANSI/ASME B1.20.1

| Blind Flanges | Size - OD" | Bolt Boles | Dia. Of Holes | "C" Thickness | "o" Diameter of RF | Class 150 Item Number | Weight Ea. /lbs. |
|---|-----------------|------------|---------------|---------------|--------------------|-----------------------|------------------|
|  | 1/2" - 3.500" | 4 | 0.62 | 0.50 | 1.38 | A2460408 | 2.00 |
| | 3/4" - 3.875" | 4 | 0.62 | 0.56 | 1.69 | A2460412 | 2.00 |
| | 1" - 4.250" | 4 | 0.62 | 0.62 | 2.00 | A2460416 | 2.00 |
| | 1 1/4" - 4.625" | 4 | 0.62 | 0.69 | 2.50 | A2460420 | 3.00 |
| | 1 1/2" - 5.000" | 4 | 0.62 | 0.75 | 2.88 | A2460424 | 4.00 |
| | 2" - 6.000" | 4 | 0.75 | 0.81 | 3.62 | A2460432 | 4.00 |
| | 2 1/2" - 7.000" | 4 | 0.75 | 0.94 | 4.12 | A2460440 | 11.00 |
| | 3" - 7.500" | 4 | 0.75 | 1.06 | 5.00 | A2460448 | 14.00 |
| | 4" - 9.000" | 8 | 0.78 | 1.19 | 6.19 | A2460464 | 19.00 |
| | 5" - 10.000" | 8 | 0.88 | 1.31 | 7.31 | A2460470 | 21.00 |
| 6" - 11.000" | 8 | 0.88 | 1.38 | 8.50 | A2460472 | 28.00 | |
| 8" - 13.500" | 8 | 0.88 | 1.56 | 10.62 | A2460484 | 48.00 | |

| Slip-On Flanges | Size - OD" | Bolt Boles | Dia. Of Holes | "C" Thickness | "X" Diameter | "B" Bore | "Y" Length Thru Hub | Class 150 Item Number | Weight Ea. /lbs. |
|--|-----------------|------------|---------------|---------------|--------------|----------|---------------------|-----------------------|------------------|
|  | 1/2" - 3.500" | 4 | 0.62 | 0.50 | 1.38 | 0.88 | 0.56 | A2460808 | 2.00 |
| | 3/4" - 3.875" | 4 | 0.62 | 0.56 | 1.69 | 1.09 | 0.56 | A2460812 | 2.00 |
| | 1" - 4.250" | 4 | 0.62 | 0.62 | 2.00 | 1.36 | 0.62 | A2460816 | 2.00 |
| | 1 1/4" - 4.625" | 4 | 0.62 | 0.69 | 2.50 | 1.70 | 0.75 | A2460820 | 3.00 |
| | 1 1/2" - 5.000" | 4 | 0.62 | 0.75 | 2.88 | 1.95 | 0.81 | A2460824 | 3.00 |
| | 2" - 6.000" | 4 | 0.75 | 0.81 | 3.62 | 2.44 | 0.94 | A2460832 | 5.00 |
| | 2 1/2" - 7.000" | 4 | 0.75 | 0.94 | 4.12 | 2.94 | 1.06 | A2460840 | 7.00 |
| | 3" - 7.500" | 4 | 0.75 | 1.06 | 5.00 | 3.57 | 1.12 | A2460848 | 8.00 |
| | 4" - 9.000" | 8 | 0.78 | 1.19 | 6.19 | 4.57 | 1.25 | A2460864 | 13.00 |
| | 5" - 10.000" | 8 | 0.88 | 1.31 | 7.31 | 5.66 | 1.38 | A2460870 | 15.00 |
| 6" - 11.000" | 8 | 0.88 | 1.38 | 8.50 | 6.72 | 1.50 | A2460872 | 19.00 | |
| 8" - 13.500" | 8 | 0.88 | 1.56 | 10.62 | 8.72 | 1.69 | A2460884 | 30.00 | |

All flanges shown comply with ANSI standard B16.15 and ASTM Specification A234, A105 and ASME SA105

Mill Test Reports (MTR's) are available upon request.

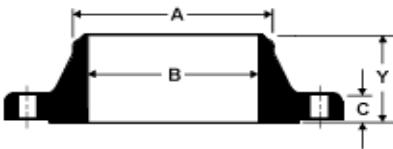
MSI Steel ANSI Flange Specifications

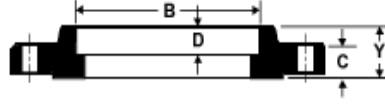
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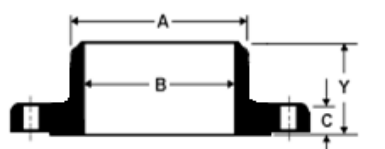
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ANSI B16.5 150lb Forged Steel Flanges Material Conforms to ASTM A105

| Weld Neck Flanges | Size - OD" | Bolt Boles | Dia. Of Holes | "C" Thickness | "A" Diameter of Hub | "B" Bore | "Y" Length Thru Hub | Class 150 Item Number | Weight Ea. /lbs. |
|--|-----------------|------------|---------------|---------------|---------------------|----------|---------------------|-----------------------|------------------|
|  | 1/2" - 3.500" | 4 | 0.62 | 0.50 | 0.84 | 0.88 | 1.88 | A2461308 | 2.00 |
| | 3/4" - 3.875" | 4 | 0.62 | 0.56 | 1.05 | 1.09 | 2.06 | A2461312 | 2.00 |
| | 1" - 4.250" | 4 | 0.62 | 0.62 | 1.32 | 1.36 | 2.19 | A2461316 | 2.00 |
| | 1 1/4" - 4.625" | 4 | 0.62 | 0.69 | 1.66 | 1.70 | 2.25 | A2461320 | 4.00 |
| | 1 1/2" - 5.000" | 4 | 0.62 | 0.75 | 1.90 | 1.95 | 2.44 | A2461324 | 5.00 |
| | 2" - 6.000" | 4 | 0.75 | 0.81 | 2.38 | 2.44 | 2.50 | A2461332 | 9.00 |
| | 2 1/2" - 7.000" | 4 | 0.75 | 0.94 | 2.88 | 2.94 | 2.75 | A2461340 | 11.00 |
| | 3" - 7.500" | 4 | 0.75 | 1.06 | 3.50 | 3.57 | 2.75 | A2461348 | 14.00 |
| | 4" - 9.000" | 8 | 0.78 | 1.19 | 4.50 | 4.57 | 3.00 | A2461364 | 16.00 |
| | 5" - 10.000" | 8 | 0.88 | 1.31 | 5.56 | 5.66 | 3.50 | A2461370 | 21.00 |
| | 6" - 11.000" | 8 | 0.88 | 1.38 | 6.63 | 6.72 | 3.50 | A2461372 | 25.00 |
| | 8" - 13.500" | 8 | 0.88 | 1.56 | 8.63 | 8.72 | 4.00 | A2461384 | 40.00 |

| Socket Weld Flanges | Size - OD" | Bolt Boles | Dia. Of Holes | "C" Thickness | "D" Depth of Socket | "B" Bore | "Y" Length Thru Hub | Class 150 Item Number | Weight Ea. /lbs. |
|--|-----------------|------------|---------------|---------------|---------------------|----------|---------------------|-----------------------|------------------|
|  | 1/2" - 3.500" | 4 | 0.62 | 0.50 | 0.38 | 0.88 | 0.56 | A2463208 | 2.00 |
| | 3/4" - 3.875" | 4 | 0.62 | 0.56 | 0.44 | 1.09 | 0.56 | A2463212 | 2.00 |
| | 1" - 4.250" | 4 | 0.62 | 0.62 | 0.50 | 1.36 | 0.62 | A2463216 | 2.00 |
| | 1 1/4" - 4.625" | 4 | 0.62 | 0.69 | 0.56 | 1.70 | 0.75 | A2463220 | 3.00 |
| | 1 1/2" - 5.000" | 4 | 0.62 | 0.75 | 0.62 | 1.95 | 0.81 | A2463224 | 3.00 |
| | 2" - 6.000" | 4 | 0.75 | 0.81 | 0.69 | 2.44 | 0.94 | A2463232 | 5.00 |
| | 2 1/2" - 7.000" | 4 | 0.75 | 0.94 | 0.75 | 2.94 | 1.06 | A2463240 | 7.00 |
| | 3" - 7.500" | 4 | 0.75 | 1.06 | 0.81 | 3.57 | 1.12 | A2463248 | 8.00 |
| | 4" - 9.000" | 8 | 0.78 | 1.19 | 0.94 | 4.57 | 1.25 | A2463264 | 13.00 |
| | 5" - 10.000" | 8 | 0.88 | 1.31 | 1.04 | 5.66 | 1.38 | A2463270 | 15.00 |
| | 6" - 11.000" | 8 | 0.88 | 1.38 | 1.06 | 6.72 | 1.50 | A2463272 | 19.00 |
| | 8" - 13.500" | 8 | 0.88 | 1.56 | 1.25 | 8.72 | 1.69 | A2463284 | 30.00 |

| Lap Joint Flanges | Size - OD" | Bolt Boles | Dia. Of Holes | "C" Thickness | "A" Diameter of Hub | "B" Bore | "Y" Length Thru Hub | Class 150 Item Number | Weight Ea. /lbs. |
|--|-----------------|------------|---------------|---------------|---------------------|----------|---------------------|-----------------------|------------------|
|  | 1/2" - 3.500" | 4 | 0.62 | 0.50 | 1.19 | 0.90 | 0.62 | A2461708 | 2.00 |
| | 3/4" - 3.875" | 4 | 0.62 | 0.56 | 1.50 | 1.11 | 0.62 | A2461712 | 2.00 |
| | 1" - 4.250" | 4 | 0.62 | 0.62 | 1.94 | 1.38 | 0.69 | A2461716 | 2.00 |
| | 1 1/4" - 4.625" | 4 | 0.62 | 0.69 | 2.31 | 1.72 | 0.81 | A2461720 | 3.00 |
| | 1 1/2" - 5.000" | 4 | 0.62 | 0.75 | 2.56 | 1.97 | 0.88 | A2461724 | 3.00 |
| | 2" - 6.000" | 4 | 0.75 | 0.81 | 3.06 | 2.46 | 1.00 | A2461732 | 5.00 |
| | 2 1/2" - 7.000" | 4 | 0.75 | 0.94 | 3.56 | 2.97 | 1.12 | A2461740 | 7.00 |
| | 3" - 7.500" | 4 | 0.75 | 1.06 | 4.25 | 3.60 | 1.19 | A2461748 | 8.00 |
| | 4" - 9.000" | 8 | 0.78 | 1.19 | 5.31 | 4.60 | 1.25 | A2461764 | 13.00 |
| | 5" - 10.000" | 8 | 0.88 | 1.31 | 6.44 | 5.69 | 1.44 | A2461770 | 15.00 |
| | 6" - 11.000" | 8 | 0.88 | 1.38 | 7.56 | 6.75 | 1.56 | A2461772 | 19.00 |
| | 8" - 13.500" | 8 | 0.88 | 1.56 | 9.69 | 8.75 | 1.75 | A2461784 | 30.00 |

All flanges shown comply with ANSI standard B16.15 and ASTM Specification A234, A105 and ASME SA105

Mill Test Reports (MTR's) are available upon request.

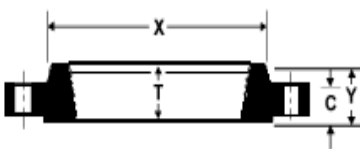
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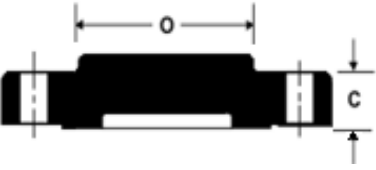
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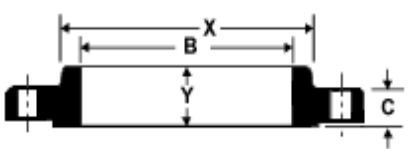
ANSI B16.5 150lb Forged Steel Flanges Material Conforms to ASTM A105

| 300lb. Threaded Flanges | Size - OD" | Bolt Boles | Dia. Of Holes | "C" Thickness | "X" Diameter | "T" Thread Length | "Y" Length Thru Hub | Class 300 Item Number | Weight Ea. /lbs. |
|--|-----------------|------------|---------------|---------------|--------------|-------------------|---------------------|-----------------------|------------------|
|  | 1/2" - 3.750" | 4 | 0.62 | 0.50 | 1.50 | 0.62 | 0.81 | A2960008 | 3.00 |
| | 3/4" - 4.625" | 4 | 0.62 | 0.56 | 1.88 | 0.62 | 0.94 | A2960012 | 3.00 |
| | 1" - 4.880" | 4 | 0.62 | 0.62 | 2.12 | 0.69 | 1.00 | A2960016 | 3.00 |
| | 1 1/4" - 5.250" | 4 | 0.62 | 0.69 | 2.50 | 0.81 | 1.00 | A2960020 | 4.00 |
| | 1 1/2" - 6.120" | 4 | 0.62 | 0.75 | 2.75 | 0.88 | 1.12 | A2960024 | 6.00 |
| | 2" - 6.500" | 4 | 0.75 | 0.81 | 3.31 | 1.00 | 1.31 | A2960032 | 7.00 |
| | 2 1/2" - 7.500" | 4 | 0.75 | 0.94 | 3.94 | 1.12 | 1.50 | A2960040 | 10.00 |
| | 3" - 8.250" | 4 | 0.75 | 1.06 | 4.62 | 1.19 | 1.69 | A2960048 | 13.00 |
| | 4" - 10.000" | 8 | 0.78 | 1.19 | 5.75 | 1.31 | 1.88 | A2960064 | 22.00 |
| | 5" - 11.000" | 8 | 0.88 | 1.31 | 7.00 | 1.44 | 2.00 | A2960070 | 28.00 |
| 6" - 12.500" | 8 | 0.88 | 1.38 | 8.12 | 1.56 | 2.06 | A2960072 | 39.00 | |
| 8" - 15.000" | 8 | 0.88 | 1.56 | 10.25 | 1.75 | 2.44 | A2960084 | 58.00 | |

Class 300lb Threaded Flanges are manufactured with a counter-bore.

Threaded Flanges conform to ANSI/ASME B1.20.1

| 300lb. Blind Flanges | Size - OD" | Bolt Boles | Dia. Of Holes | "C" Thickness | "o" Diameter of RF | Class 300 Item Number | Weight Ea. /lbs. |
|---|-----------------|------------|---------------|---------------|--------------------|-----------------------|------------------|
|  | 1/2" - 3.500" | 4 | 0.62 | 0.50 | 1.38 | A2960408 | 2.00 |
| | 3/4" - 3.875" | 4 | 0.62 | 0.56 | 1.69 | A2960412 | 3.00 |
| | 1" - 4.250" | 4 | 0.62 | 0.62 | 2.00 | A2960416 | 4.00 |
| | 1 1/4" - 4.625" | 4 | 0.62 | 0.69 | 2.50 | A2960420 | 6.00 |
| | 1 1/2" - 5.000" | 4 | 0.62 | 0.75 | 2.88 | A2960424 | 7.00 |
| | 2" - 6.000" | 4 | 0.75 | 0.81 | 3.62 | A2960432 | 8.00 |
| | 2 1/2" - 7.000" | 4 | 0.75 | 0.94 | 4.12 | A2960440 | 15.00 |
| | 3" - 7.500" | 4 | 0.75 | 1.06 | 5.00 | A2960448 | 16.00 |
| | 4" - 9.000" | 8 | 0.78 | 1.19 | 6.19 | A2960464 | 27.00 |
| | 5" - 10.000" | 8 | 0.88 | 1.31 | 7.31 | A2960470 | 41.00 |
| 6" - 11.000" | 8 | 0.88 | 1.38 | 8.50 | A2960472 | 50.00 | |
| 8" - 13.500" | 8 | 0.88 | 1.56 | 10.62 | A2960484 | 80.00 | |

| 300lb. Slip-On Flanges | Size - OD" | Bolt Boles | Dia. Of Holes | "C" Thickness | "X" Diameter | "B" Bore | "Y" Length Thru Hub | Class 300 Item Number | Weight Ea. /lbs. |
|--|-----------------|------------|---------------|---------------|--------------|----------|---------------------|-----------------------|------------------|
|  | 1/2" - 3.500" | 4 | 0.62 | 0.50 | 1.50 | 0.88 | 0.81 | A2960808 | 3.00 |
| | 3/4" - 3.875" | 4 | 0.62 | 0.56 | 1.88 | 1.09 | 0.94 | A2960812 | 3.00 |
| | 1" - 4.250" | 4 | 0.62 | 0.62 | 2.12 | 1.36 | 1.00 | A2960816 | 3.00 |
| | 1 1/4" - 4.625" | 4 | 0.62 | 0.69 | 2.50 | 1.70 | 1.00 | A2960820 | 4.00 |
| | 1 1/2" - 5.000" | 4 | 0.62 | 0.75 | 2.75 | 1.95 | 1.12 | A2960824 | 6.00 |
| | 2" - 6.000" | 4 | 0.75 | 0.81 | 3.31 | 2.44 | 1.31 | A2960832 | 7.00 |
| | 2 1/2" - 7.000" | 4 | 0.75 | 0.94 | 3.94 | 2.94 | 1.50 | A2960840 | 10.00 |
| | 3" - 7.500" | 4 | 0.75 | 1.06 | 4.62 | 3.57 | 1.69 | A2960848 | 13.00 |
| | 4" - 9.000" | 8 | 0.78 | 1.19 | 5.75 | 4.57 | 1.88 | A2960864 | 22.00 |
| | 5" - 10.000" | 8 | 0.88 | 1.31 | 7.00 | 5.66 | 2.00 | A2960870 | 28.00 |
| 6" - 11.000" | 8 | 0.88 | 1.38 | 8.12 | 6.72 | 2.06 | A2960872 | 39.00 | |
| 8" - 13.500" | 8 | 0.88 | 1.56 | 10.25 | 8.72 | 2.44 | A2960884 | 58.00 | |

All flanges shown comply with ANSI standard B16.15 and ASTM Specification A234, A105 and ASME SA105

Mill Test Reports (MTR's) are available upon request.

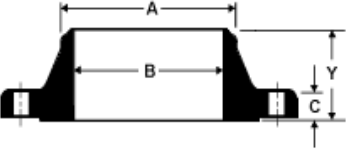
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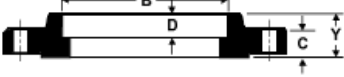
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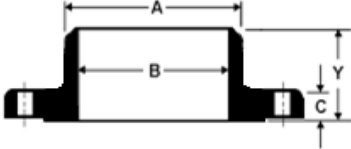
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ANSI B16.5 150lb Forged Steel Flanges Material Conforms to ASTM A105

| 300lb. Weld Neck Flanges | Size - OD" | Bolt Boles | Dia. Of Holes | "C" Thickness | "A" Diameter of Hub | "B" Bore | "Y" Length Thru Hub | Class 300 Item Number | Weight Ea. /lbs. |
|--|-----------------|------------|---------------|---------------|---------------------|----------|---------------------|-----------------------|------------------|
|  | 1/2" - 3.500" | 4 | 0.62 | 0.50 | 0.84 | 0.88 | 2.00 | A2961308 | 4.00 |
| | 3/4" - 3.875" | 4 | 0.62 | 0.56 | 1.05 | 1.09 | 2.19 | A2961312 | 4.00 |
| | 1" - 4.250" | 4 | 0.62 | 0.62 | 1.32 | 1.36 | 2.38 | A2961316 | 5.00 |
| | 1 1/4" - 4.625" | 4 | 0.62 | 0.69 | 1.66 | 1.70 | 2.50 | A2961320 | 6.00 |
| | 1 1/2" - 5.000" | 4 | 0.62 | 0.75 | 1.90 | 1.95 | 2.62 | A2961324 | 9.00 |
| | 2" - 6.000" | 4 | 0.75 | 0.81 | 2.38 | 2.44 | 2.75 | A2961332 | 10.00 |
| | 2 1/2" - 7.000" | 4 | 0.75 | 0.94 | 2.88 | 2.94 | 3.00 | A2961340 | 13.00 |
| | 3" - 7.500" | 4 | 0.75 | 1.06 | 3.50 | 3.57 | 3.12 | A2961348 | 16.00 |
| | 4" - 9.000" | 8 | 0.78 | 1.19 | 4.50 | 4.57 | 3.38 | A2961364 | 26.00 |
| | 5" - 10.000" | 8 | 0.88 | 1.31 | 5.56 | 5.66 | 3.88 | A2961370 | 35.00 |
| | 6" - 11.000" | 8 | 0.88 | 1.38 | 6.63 | 6.72 | 3.88 | A2961372 | 45.00 |
| | 8" - 13.500" | 8 | 0.88 | 1.56 | 8.63 | 8.72 | 4.38 | A2961384 | 70.00 |

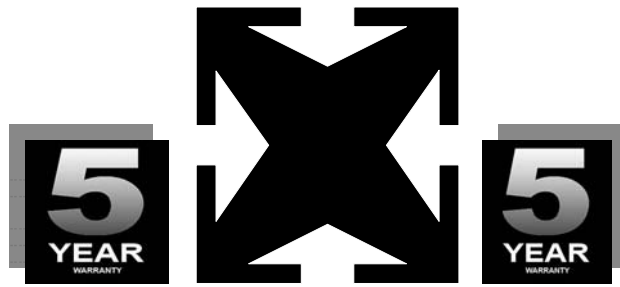
| 300lb. Socket Weld Flanges | Size - OD" | Bolt Boles | Dia. Of Holes | "C" Thickness | "D" Depth of Socket | "B" Bore | "Y" Length Thru Hub | Class 300 Item Number | Weight Ea. /lbs. |
|---|-----------------|------------|---------------|---------------|---------------------|----------|---------------------|-----------------------|------------------|
|  | 1/2" - 3.500" | 4 | 0.62 | 0.50 | 0.38 | 0.88 | 0.81 | A2963208 | 3.00 |
| | 3/4" - 3.875" | 4 | 0.62 | 0.56 | 0.44 | 1.09 | 0.94 | A2963212 | 3.00 |
| | 1" - 4.250" | 4 | 0.62 | 0.62 | 0.50 | 1.36 | 1.00 | A2963216 | 3.00 |
| | 1 1/4" - 4.625" | 4 | 0.62 | 0.69 | 0.56 | 1.70 | 1.00 | A2963220 | 4.00 |
| | 1 1/2" - 5.000" | 4 | 0.62 | 0.75 | 0.62 | 1.95 | 1.12 | A2963224 | 6.00 |
| | 2" - 6.000" | 4 | 0.75 | 0.81 | 0.69 | 2.44 | 1.31 | A2963232 | 7.00 |
| | 2 1/2" - 7.000" | 4 | 0.75 | 0.94 | 0.75 | 2.94 | 1.50 | A2963240 | 10.00 |
| | 3" - 7.500" | 4 | 0.75 | 1.06 | 0.81 | 3.57 | 1.69 | A2963248 | 13.00 |
| | 4" - 9.000" | 8 | 0.78 | 1.19 | 0.94 | 4.57 | 1.88 | A2963264 | 22.00 |
| | 5" - 10.000" | 8 | 0.88 | 1.31 | 1.04 | 5.66 | 2.00 | A2963270 | 28.00 |
| | 6" - 11.000" | 8 | 0.88 | 1.38 | 1.06 | 6.72 | 2.06 | A2963272 | 39.00 |
| | 8" - 13.500" | 8 | 0.88 | 1.56 | 1.25 | 8.72 | 2.44 | A2963284 | 58.00 |

| Lap Joint Flanges | Size - OD" | Bolt Boles | Dia. Of Holes | "C" Thickness | "A" Diameter of Hub | "B" Bore | "Y" Length Thru Hub | Class 300 Item Number | Weight Ea. /lbs. |
|---|-----------------|------------|---------------|---------------|---------------------|----------|---------------------|-----------------------|------------------|
|  | 1/2" - 3.500" | 4 | 0.62 | 0.50 | 1.19 | 0.90 | 0.62 | A2961708 | 3.00 |
| | 3/4" - 3.875" | 4 | 0.62 | 0.56 | 1.50 | 1.11 | 0.62 | A2961712 | 3.00 |
| | 1" - 4.250" | 4 | 0.62 | 0.62 | 1.94 | 1.38 | 0.69 | A2961716 | 3.00 |
| | 1 1/4" - 4.625" | 4 | 0.62 | 0.69 | 2.31 | 1.72 | 0.81 | A2961720 | 4.00 |
| | 1 1/2" - 5.000" | 4 | 0.62 | 0.75 | 2.56 | 1.97 | 0.88 | A2961724 | 6.00 |
| | 2" - 6.000" | 4 | 0.75 | 0.81 | 3.06 | 2.46 | 1.00 | A2961732 | 7.00 |
| | 2 1/2" - 7.000" | 4 | 0.75 | 0.94 | 3.56 | 2.97 | 1.12 | A2961740 | 10.00 |
| | 3" - 7.500" | 4 | 0.75 | 1.06 | 4.25 | 3.60 | 1.19 | A2961748 | 13.00 |
| | 4" - 9.000" | 8 | 0.78 | 1.19 | 5.31 | 4.60 | 1.25 | A2961764 | 22.00 |
| | 5" - 10.000" | 8 | 0.88 | 1.31 | 6.44 | 5.69 | 1.44 | A2961770 | 28.00 |
| | 6" - 11.000" | 8 | 0.88 | 1.38 | 7.56 | 6.75 | 1.56 | A2961772 | 39.00 |
| | 8" - 13.500" | 8 | 0.88 | 1.56 | 9.69 | 8.75 | 1.75 | A2961784 | 58.00 |

1/16" RF NOT Included in Flange Thickness and Length Through Hub

All flanges shown comply with ANSI standard B16.15 and ASTM Specification A234, A105 and ASME SA105

Mill Test Reports (MTR's) are available upon request.



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.