



# Forged Fittings

**ASTM A182/A105 ASME B16.11**



**High quality products for  
industrial & construction**

**DSG**  
VALVES & TUBE FITTINGS

# Socket Weld (SW) 2000#, 3000# and 6000#

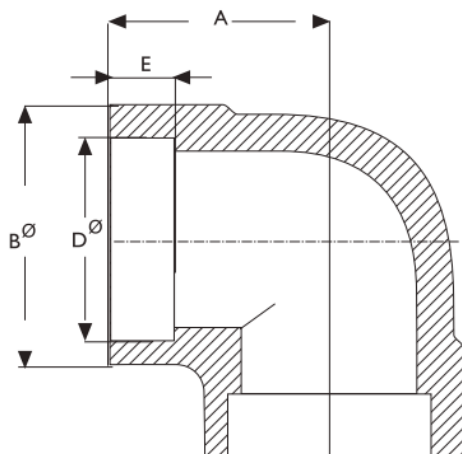


# ELBOW 90° SW

| Elbow 90° SW 3000#, 6000# and 9000# |                           |
|-------------------------------------|---------------------------|
| Specifications                      |                           |
| Material                            | Stainless steel ASTM A182 |
|                                     | Carbon steel ASTM A105    |



| 3000LBS |       |       |       |      |        | 6000LBS |       |       |      |        |
|---------|-------|-------|-------|------|--------|---------|-------|-------|------|--------|
| OD      | A     | B Ø   | D Ø   | E    | Weight | A       | B Ø   | D Ø   | E    | Weight |
| 1/4"    | 24.5  | 25.5  | 14.0  | 9.5  | 0.050  |         |       |       |      |        |
| 3/8"    | 24.5  | 25.5  | 17.5  | 11.0 | 0.060  |         |       |       |      |        |
| 1/2"    | 28.5  | 33.5  | 21.7  | 12.5 | 0.130  | 35.0    | 38.0  | 21.7  | 12.5 | 0.230  |
| 3/4"    | 33.5  | 38.0  | 27.1  | 14.5 | 0.190  | 38.0    | 44.5  | 27.1  | 14.5 | 0.320  |
| 1"      | 38.0  | 46.0  | 33.8  | 16.0 | 0.260  | 44.5    | 57.0  | 33.8  | 16.0 | 0.640  |
| 1.1/4"  | 44.5  | 55.5  | 42.6  | 17.5 | 0.480  | 47.5    | 63.5  | 42.6  | 17.5 | 0.720  |
| 1.1/2"  | 51.0  | 62.0  | 48.7  | 19.0 | 0.570  | 51.0    | 76.0  | 48.7  | 19.0 | 1.170  |
| 2"      | 60.5  | 75.5  | 61.1  | 22.0 | 0.920  | 63.5    | 92.0  | 61.1  | 22.0 | 2.080  |
| 2.1/2"  | 76.0  | 92.0  | 73.8  | 23.5 | 1.400  | 66.5    | 108.0 | 73.8  | 23.5 | 2.800  |
| 3"      | 86.0  | 110.0 | 89.8  | 25.5 | 1.800  | 70.0    | 127.0 | 89.8  | 25.5 | 3.230  |
| 4"      | 114.5 | 152.5 | 115.4 | 28.5 | 3.230  | 76.0    | 159.0 | 115.4 | 28.5 | 6.220  |

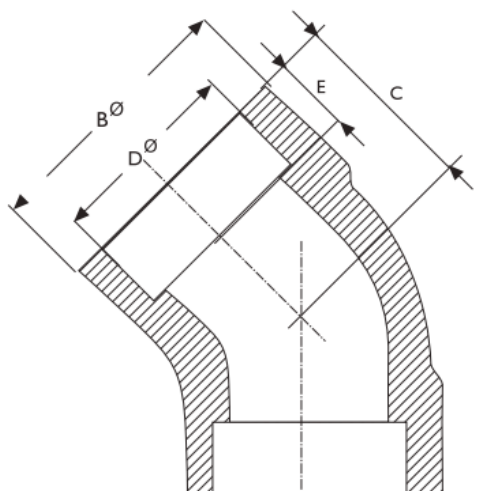


# ELBOW 45° SW

| Elbow 45° SW 3000#, 6000# and 9000# |                           |
|-------------------------------------|---------------------------|
| Specifications                      |                           |
| Material                            | Stainless steel ASTM A182 |
|                                     | Carbon steel ASTM A105    |



| 3000LBS |       |      |       |      |        | 6000LBS |      |       |      |        |
|---------|-------|------|-------|------|--------|---------|------|-------|------|--------|
| OD      | C     | B Ø  | D Ø   | E    | Weight | C       | B Ø  | D Ø   | E    | Weight |
| 1/4"    | 25.5  | 19.0 | 14.0  | 9.5  | 0.10   |         |      |       |      |        |
| 3/8"    | 25.5  | 19.0 | 17.5  | 11.0 | 0.10   |         |      |       |      |        |
| 1/2"    | 38.0  | 25.5 | 21.7  | 11.0 | 0.26   | 38.0    | 25.5 | 21.7  | 12.5 | 0.31   |
| 3/4"    | 38.0  | 25.5 | 27.1  | 12.5 | 0.25   | 46.0    | 28.5 | 27.1  | 14.5 | 0.52   |
| 1"      | 46.0  | 28.5 | 33.8  | 14.5 | 0.38   | 55.5    | 33.5 | 33.8  | 16.0 | 0.92   |
| 1.1/4"  | 55.5  | 33.5 | 42.6  | 16.0 | 0.61   | 62.0    | 35.0 | 42.6  | 14.5 | 1.02   |
| 1.1/2"  | 62.0  | 35.0 | 48.7  | 16.0 | 0.71   | 75.5    | 43.0 | 48.7  | 17.5 | 1.92   |
| 2"      | 75.5  | 43.0 | 61.1  | 17.5 | 1.14   | 84.0    | 43.5 | 61.1  | 15.0 | 2.29   |
| 2.1/2"  | 101.5 | 52.5 | 73.8  | 24.0 | 3.36   | 101.5   | 52.5 | 73.8  | 20.5 | 4.04   |
| 3"      | 118.0 | 63.5 | 89.8  | 32.0 | 4.70   | 118.0   | 63.5 | 89.8  | 28.5 | 5.80   |
| 4"      | 146.0 | 79.5 | 115.4 | 38.0 | 9.00   | 146.0   | 79.5 | 115.4 | 38.0 | 10.65  |

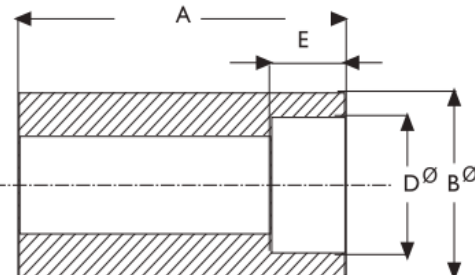
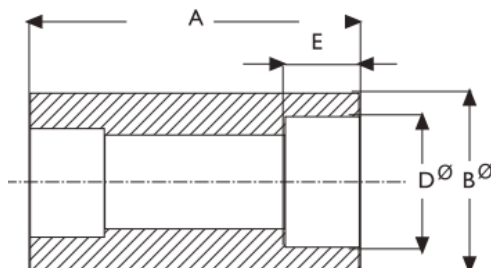
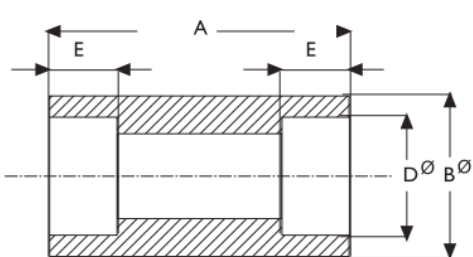


# COUPLING SW



| COUPLING SW 3000#, 6000# and 9000# |                           |
|------------------------------------|---------------------------|
| Specifications                     |                           |
| Material                           | Stainless steel ASTM A182 |
|                                    | Carbon steel ASTM A105    |

| 3000LBS |      |       |       |      |        | 6000LBS |       |       |      |        |
|---------|------|-------|-------|------|--------|---------|-------|-------|------|--------|
| OD      | A    | B Ø   | D Ø   | E    | Weight | A       | B Ø   | D Ø   | E    | Weight |
| 1/4"    | 25.5 | 22.0  | 14.0  | 9.5  | 0.050  |         |       |       |      |        |
| 3/8"    | 28.5 | 25.5  | 17.5  | 11.0 | 0.060  |         |       |       |      |        |
| 1/2"    | 35.0 | 31.5  | 21.7  | 12.5 | 0.130  | 35.0    | 38.0  | 21.7  | 12.5 | 0.23   |
| 3/4"    | 38.0 | 38.0  | 27.1  | 14.5 | 0.190  | 38.0    | 44.5  | 27.1  | 14.5 | 0.32   |
| 1"      | 44.5 | 44.5  | 33.8  | 16.0 | 0.260  | 44.5    | 57.0  | 33.8  | 16.0 | 0.64   |
| 1.1/4"  | 47.5 | 57.0  | 42.6  | 17.5 | 0.480  | 47.5    | 63.5  | 42.6  | 17.5 | 0.72   |
| 1.1/2"  | 51.0 | 63.5  | 48.7  | 19.0 | 0.570  | 51.0    | 76.0  | 48.7  | 19.0 | 1.17   |
| 2"      | 63.5 | 76.0  | 61.1  | 22.0 | 0.920  | 63.5    | 92.0  | 61.1  | 22.0 | 2.08   |
| 2.1/2"  | 66.5 | 92.0  | 73.8  | 23.5 | 1.400  | 66.5    | 108.0 | 73.8  | 23.5 | 2.80   |
| 3"      | 70.0 | 108.0 | 89.8  | 25.5 | 1.800  | 70.0    | 127.0 | 89.8  | 25.5 | 3.23   |
| 4"      | 76.0 | 140.0 | 115.4 | 28.5 | 3.230  | 76.0    | 159.0 | 115.4 | 28.5 | 6.22   |

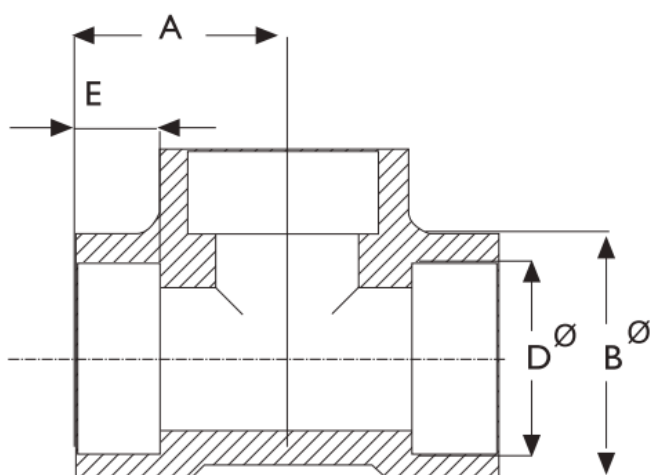


# TEE SW



| TEE SW         |                           | 3000#, 6000# and 9000# |
|----------------|---------------------------|------------------------|
| Specifications |                           |                        |
| Material       | Stainless steel ASTM A182 |                        |
|                | Carbon steel ASTM A105    |                        |

| 3000LBS |       |       |       |      |        | 6000LBS |       |       |      |        |
|---------|-------|-------|-------|------|--------|---------|-------|-------|------|--------|
| OD      | A     | B Ø   | D Ø   | E    | Weight | A       | B Ø   | D Ø   | E    | Weight |
| 1/4"    | 24.5  | 25.5  | 14.0  | 13.5 | 0.150  |         |       |       |      |        |
| 3/8"    | 24.5  | 25.5  | 17.5  | 11.0 | 0.140  |         |       |       |      |        |
| 1/2"    | 28.5  | 33.5  | 21.7  | 12.5 | 0.300  | 33.5    | 38.0  | 21.7  | 14.5 | 0.530  |
| 3/4"    | 33.5  | 38.0  | 27.1  | 14.5 | 0.380  | 38.0    | 46.0  | 27.1  | 16.0 | 0.880  |
| 1"      | 38.0  | 46.0  | 33.8  | 16.0 | 0.610  | 44.5    | 55.5  | 33.8  | 17.5 | 1.440  |
| 1.1/4"  | 44.5  | 55.5  | 42.6  | 17.5 | 0.930  | 51.0    | 62.0  | 42.6  | 19.0 | 1.790  |
| 1.1/2"  | 51.0  | 62.0  | 48.7  | 19.0 | 1.240  | 60.5    | 75.5  | 48.7  | 22.0 | 3.240  |
| 2"      | 60.5  | 75.5  | 61.1  | 22.0 | 1.910  | 63.5    | 84.0  | 61.1  | 22.0 | 3.510  |
| 2.1/2"  | 76.0  | 92.0  | 73.8  | 34.5 | 3.700  | 86.0    | 110.0 | 73.8  | 30.0 | 8.800  |
| 3"      | 86.0  | 110.0 | 89.8  | 29.0 | 5.500  | 95.5    | 120.5 | 89.8  | 32.0 | 10.500 |
| 4"      | 114.5 | 152.5 | 115.4 | 48.0 | 19.000 | 114.5   | 152.5 | 115.4 | 35.0 | 22.200 |

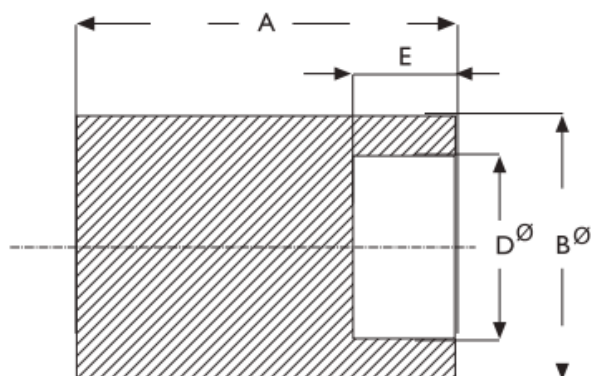


# CAP SW

| CAP SW 3000#, 6000# and 9000# |                           |
|-------------------------------|---------------------------|
| Specifications                |                           |
| Material                      | Stainless steel ASTM A182 |
|                               | Carbon steel ASTM A105    |



| 3000LBS |       |       |       |      |        | 6000LBS |       |       |      |        |
|---------|-------|-------|-------|------|--------|---------|-------|-------|------|--------|
| OD      | A     | B Ø   | D Ø   | E    | Weight | A       | B Ø   | D Ø   | E    | Weight |
| 1/4"    | 24.5  | 25.5  | 14.0  | 13.5 | 0.150  |         |       |       |      |        |
| 3/8"    | 24.5  | 25.5  | 17.5  | 11.0 | 0.140  |         |       |       |      |        |
| 1/2"    | 28.5  | 33.5  | 21.7  | 12.5 | 0.300  | 33.5    | 38.0  | 21.7  | 14.5 | 0.530  |
| 3/4"    | 33.5  | 38.0  | 27.1  | 14.5 | 0.380  | 38.0    | 46.0  | 27.1  | 16.0 | 0.880  |
| 1"      | 38.0  | 46.0  | 33.8  | 16.0 | 0.610  | 44.5    | 55.5  | 33.8  | 17.5 | 1.440  |
| 1.1/4"  | 44.5  | 55.5  | 42.6  | 17.5 | 0.930  | 51.0    | 62.0  | 42.6  | 19.0 | 1.790  |
| 1.1/2"  | 51.0  | 62.0  | 48.7  | 19.0 | 1.240  | 60.5    | 75.5  | 48.7  | 22.0 | 3.240  |
| 2"      | 60.5  | 75.5  | 61.1  | 22.0 | 1.910  | 63.5    | 84.0  | 61.1  | 22.0 | 3.510  |
| 2.1/2"  | 76.0  | 92.0  | 73.8  | 34.5 | 3.700  | 86.0    | 110.0 | 73.8  | 30.0 | 8.800  |
| 3"      | 86.0  | 110.0 | 89.8  | 29.0 | 5.500  | 95.5    | 120.5 | 89.8  | 32.0 | 10.500 |
| 4"      | 114.5 | 152.5 | 115.4 | 48.0 | 19.000 | 114.5   | 152.5 | 115.4 | 35.0 | 22.200 |





# Threaded 2000#, 3000# and 6000#



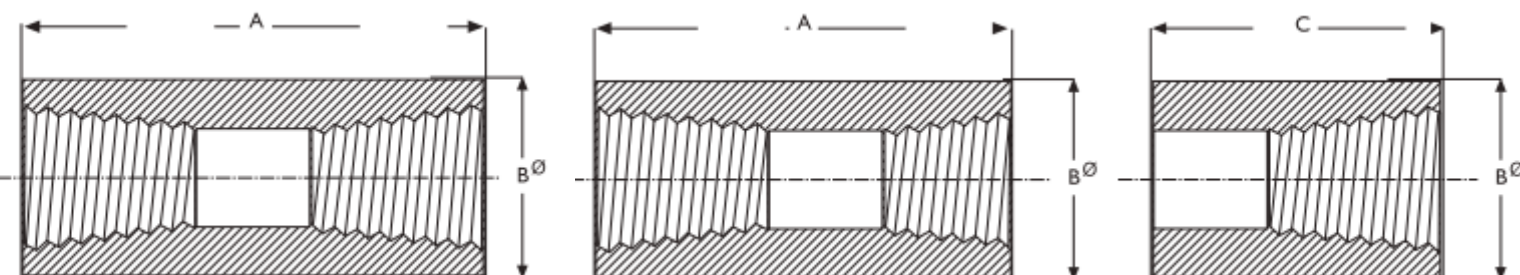


# THREADED COUPLING



| COUPLING       |                           | 2000#, 3000# and 6000# |
|----------------|---------------------------|------------------------|
| Specifications |                           |                        |
| Material       | Stainless steel ASTM A182 |                        |
|                | Carbon steel ASTM A105    |                        |

| 3000LBS |       |       |      |        | 6000LBS |       |      |        |
|---------|-------|-------|------|--------|---------|-------|------|--------|
| OD      | A     | B Ø   | C    | Weight | A       | B Ø   | C    | Weight |
| 1/4"    | 35.0  | 19.0  | 17.5 | 0.050  | 35.0    | 25.5  | 17.5 | 0.060  |
| 3/8"    | 38.0  | 22.0  | 19.0 | 0.060  | 38.0    | 32.0  | 19.0 | 0.180  |
| 1/2"    | 47.5  | 29.0  | 24.0 | 0.130  | 47.5    | 38.0  | 24.0 | 0.310  |
| 3/4"    | 51.0  | 35.0  | 25.5 | 0.190  | 51.0    | 44.5  | 25.5 | 0.410  |
| 1"      | 60.5  | 44.5  | 30.0 | 0.390  | 60.5    | 57.0  | 30.0 | 0.850  |
| 1.1/4"  | 66.5  | 57.0  | 33.5 | 0.680  | 66.5    | 63.5  | 33.5 | 1.050  |
| 1.1/2"  | 79.5  | 63.5  | 39.5 | 1.000  | 79.5    | 76.0  | 39.5 | 1.810  |
| 2"      | 85.5  | 76.0  | 43.0 | 1.370  | 85.5    | 92.0  | 43.0 | 3.400  |
| 2.1/2"  | 92.0  | 92.0  | 46.0 | 2.070  | 92.0    | 108.0 | 46.0 | 4.190  |
| 3"      | 108.0 | 108.0 | 54.0 | 3.080  | 108.0   | 127.0 | 54.0 | 6.100  |
| 4"      | 120.5 | 140.0 | 60.0 | 5.440  | 120.5   | 159.0 | 60.0 | 10.300 |

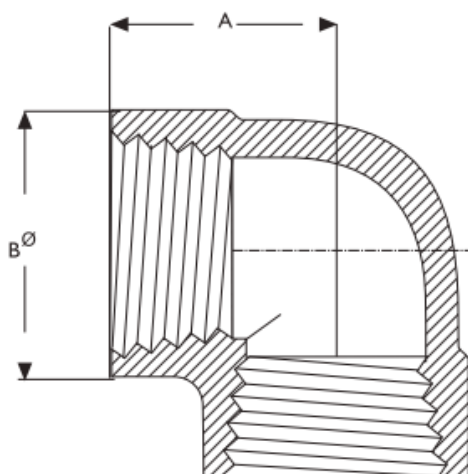


# THREADED ELBOW 90°



| Elbow 90° 2000#, 3000# and 6000# |                           |
|----------------------------------|---------------------------|
| Specifications                   |                           |
| Material                         | Stainless steel ASTM A182 |
|                                  | Carbon steel ASTM A105    |

| 3000LBS |       |       |        | 6000LBS |       |        |
|---------|-------|-------|--------|---------|-------|--------|
| OD      | A     | B Ø   | Weight | A       | B Ø   | Weight |
| 1/4"    | 24.5  | 25.5  | 0.140  | 28.5    | 33.5  | 0.300  |
| 3/8"    | 28.5  | 33.5  | 0.270  | 33.5    | 38.0  | 0.460  |
| 1/2"    | 33.5  | 38.0  | 0.410  | 38.0    | 46.0  | 0.720  |
| 3/4"    | 38.0  | 46.0  | 0.650  | 44.5    | 55.5  | 1.160  |
| 1"      | 44.5  | 55.5  | 1.040  | 51.0    | 62.0  | 1.620  |
| 1.1/4"  | 51.0  | 62.0  | 1.310  | 60.5    | 75.5  | 2.670  |
| 1.1/2"  | 60.5  | 75.5  | 2.220  | 63.5    | 84.0  | 3.210  |
| 2"      | 63.5  | 84.0  | 2.470  | 86.0    | 110.0 | 7.940  |
| 2.1/2"  | 86.0  | 110.0 | 7.340  | 95.5    | 120.5 | 9.850  |
| 3"      | 95.5  | 120.5 | 7.780  | 114.5   | 152.5 | 18.000 |
| 4"      | 114.5 | 152.5 | 13.280 |         |       |        |

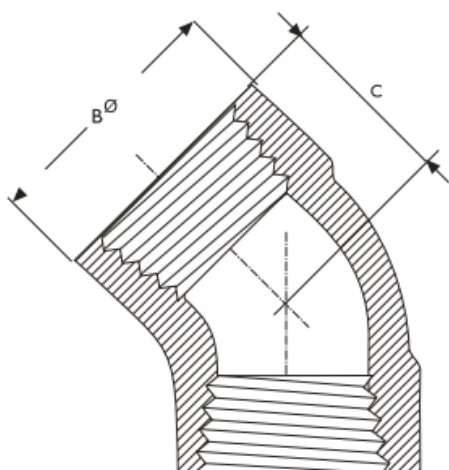


# THREADED ELBOW 45°



| Elbow 45° 2000#, 3000# and 6000# |                           |
|----------------------------------|---------------------------|
| Specifications                   |                           |
| Material                         | Stainless steel ASTM A182 |
|                                  | Carbon steel ASTM A105    |

| 3000LBS |       |      |        | 6000LBS |      |        |
|---------|-------|------|--------|---------|------|--------|
| OD      | B Ø   | C    | Weight | B Ø     | C    | Weight |
| 1/4"    | 25.5  | 19.0 | 0.120  | 38.0    | 25.5 | 0.400  |
| 3/8"    | 38.0  | 25.5 | 0.370  | 38.0    | 25.5 | 0.380  |
| 1/2"    | 38.0  | 25.5 | 0.340  | 46.0    | 28.5 | 0.610  |
| 3/4"    | 46.0  | 28.5 | 0.530  | 55.5    | 33.5 | 1.020  |
| 1"      | 55.5  | 33.5 | 0.520  | 62.0    | 35.0 | 1.180  |
| 1.1/4"  | 62.0  | 35.0 | 0.960  | 75.5    | 43.0 | 2.070  |
| 1.1/2"  | 75.5  | 43.0 | 1.840  | 84.0    | 43.5 | 2.610  |
| 2"      | 84.0  | 43.5 | 1.930  | 101.5   | 52.5 | 4.370  |
| 2.1/2"  | 101.5 | 52.5 | 3.460  | 120.5   | 63.5 | 7.000  |
| 3"      | 120.5 | 63.5 | 5.450  | 152.5   | 79.5 | 14.160 |
| 4"      | 152.5 | 79.5 | 9.500  |         |      |        |

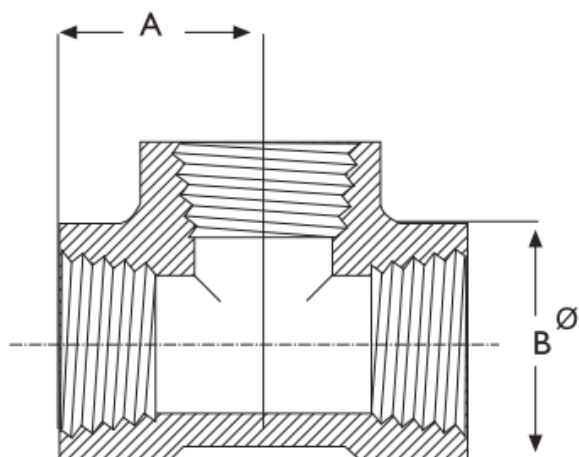


# THREADED TEE

| TEE 2000#, 3000# and 6000# |                           |
|----------------------------|---------------------------|
| Specifications             |                           |
| Material                   | Stainless steel ASTM A182 |
|                            | Carbon steel ASTM A105    |



| 3000LBS |       |       |        | 6000LBS |       |        |
|---------|-------|-------|--------|---------|-------|--------|
| OD      | A     | B Ø   | Weight | A       | B Ø   | Weight |
| 1/4"    | 24.5  | 25.5  | 0.200  | 28.5    | 33.5  | 0.410  |
| 3/8"    | 28.5  | 33.5  | 0.380  | 33.5    | 38.0  | 0.620  |
| 1/2"    | 33.5  | 38.0  | 0.560  | 38.0    | 46.0  | 0.980  |
| 3/4"    | 38.0  | 46.0  | 0.840  | 44.5    | 55.5  | 1.650  |
| 1"      | 44.5  | 55.5  | 1.360  | 51.0    | 62.0  | 2.190  |
| 1.1/4"  | 51.0  | 62.0  | 1.650  | 60.5    | 75.5  | 3.320  |
| 1.1/2"  | 60.5  | 75.5  | 3.100  | 63.5    | 84.0  | 4.430  |
| 2"      | 63.5  | 84.0  | 3.180  | 86.0    | 110.0 | 8.500  |
| 2.1/2"  | 86.0  | 110.0 | 8.800  | 95.5    | 120.5 | 13.100 |
| 3"      | 95.5  | 120.5 | 9.500  | 114.5   | 152.5 | 24.000 |
| 4"      | 114.5 | 152.5 | 17.200 |         |       |        |

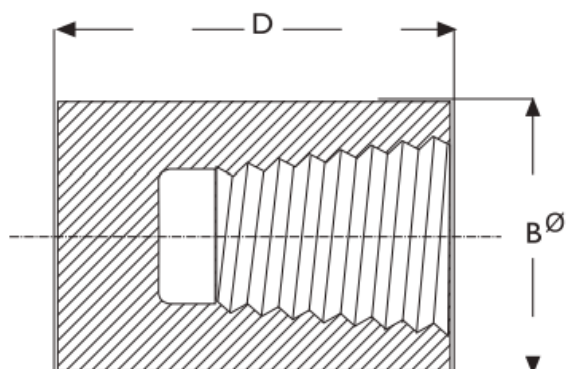


# THREADED CAP

| CAP 2000#, 3000# and 6000# |                           |
|----------------------------|---------------------------|
| Specifications             |                           |
| Material                   | Stainless steel ASTM A182 |
|                            | Carbon steel ASTM A105    |



| 3000LBS |      |       |        | 6000LBS |       |        |
|---------|------|-------|--------|---------|-------|--------|
| OD      | D    | B Ø   | Weight | D       | B Ø   | Weight |
| 1/4"    | 25.5 | 19.0  | 0.040  | 25.5    | 25.5  | 0.060  |
| 3/8"    | 25.5 | 22.0  | 0.050  | 30.0    | 32.0  | 0.090  |
| 1/2"    | 32.0 | 29.0  | 0.110  | 35.0    | 38.0  | 0.140  |
| 3/4"    | 36.5 | 35.0  | 0.180  | 38.0    | 44.5  | 0.200  |
| 1"      | 41.5 | 44.5  | 0.330  | 46.0    | 57.0  | 0.340  |
| 1.1/4"  | 44.5 | 57.0  | 0.600  | 47.5    | 63.5  | 0.600  |
| 1.1/2"  | 44.5 | 63.5  | 0.700  | 47.5    | 76.0  | 0.770  |
| 2"      | 47.5 | 76.0  | 1.060  | 51.0    | 92.0  | 1.470  |
| 2.1/2"  | 60.5 | 92.0  | 1.840  | 63.5    | 108.0 | 2.100  |
| 3"      | 65.0 | 108.0 | 1.650  | 68.0    | 127.0 | 2.000  |
| 4"      | 68.0 | 140.0 | 4.570  | 74.5    | 159.0 | 6.300  |

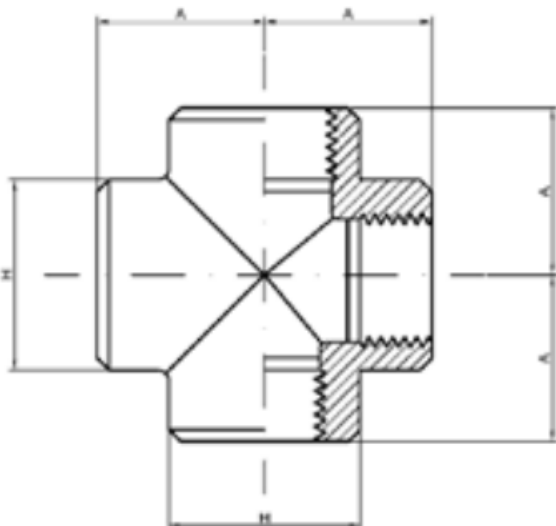


# THREADED CROSS



| CROSS 2000#, 3000# and 6000# |                           |
|------------------------------|---------------------------|
| Specifications               |                           |
| Material                     | Stainless steel ASTM A182 |
|                              | Carbon steel ASTM A105    |

| 3000LBS |        |        |       |        | 6000LBS |        |       |        |
|---------|--------|--------|-------|--------|---------|--------|-------|--------|
| OD      | A      | H      | Q     | Weight | A       | H      | Q     | Weight |
| 1/4"    | 24.64  | 25.40  | 3.30  | 0.22   | 28.45   | 33.27  | 6.60  | 0.47   |
| 3/8"    | 28.45  | 33.27  | 3.51  | 0.40   | 33.27   | 38.10  | 6.98  | 0.67   |
| 1/2"    | 33.27  | 38.10  | 4.09  | 0.63   | 38.10   | 45.97  | 8.15  | 1.12   |
| 3/4"    | 38.10  | 45.97  | 4.32  | 0.93   | 44.45   | 55.63  | 8.53  | 1.90   |
| 1"      | 44.45  | 55.63  | 4.98  | 1.47   | 50.80   | 61.98  | 9.93  | 2.90   |
| 1.1/4"  | 50.80  | 61.98  | 5.28  | 1.77   | 60.45   | 75.44  | 10.59 | 4.20   |
| 1.1/2"  | 60.45  | 75.44  | 5.56  | 3.42   | 63.50   | 84.07  | 11.07 | 6.35   |
| 2"      | 63.50  | 84.07  | 7.14  | 5.00   | 82.55   | 101.60 | 12.09 | 9.80   |
| 2.1/2"  | 82.55  | 101.60 | 7.64  | 7.32   | 95.25   | 120.65 | 15.29 | 16.00  |
| 3"      | 95.25  | 120.65 | 8.84  | 11.20  | 106.43  | 146.05 | 16.64 | 22.60  |
| 4"      | 114.30 | 152.40 | 11.18 | 19.00  | 114.30  | 152.40 | 18.67 | 28.10  |

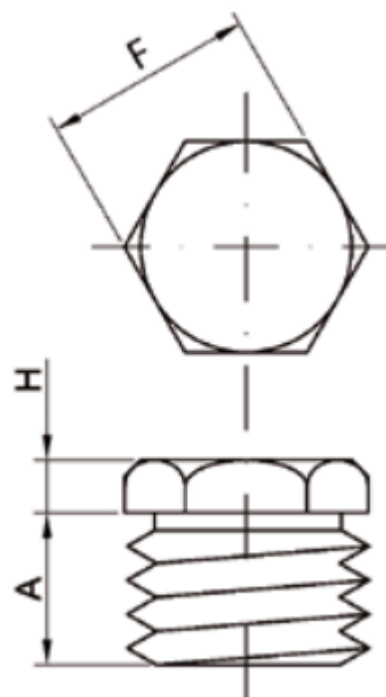


# THREADED HEX PLUG

| HEX PLUG      2000#, 3000# and 6000# |                           |
|--------------------------------------|---------------------------|
| Specifications                       |                           |
| Material                             | Stainless steel ASTM A182 |
|                                      | Carbon steel ASTM A105    |



| 3000LBS/6000LBS |       |        |       |        |
|-----------------|-------|--------|-------|--------|
| OD              | A     | F      | H     | Weight |
| 1/4"            | 11.18 | 15.75  | 6.35  | 0.03   |
| 3/8"            | 12.70 | 17.53  | 7.87  | 0.04   |
| 1/2"            | 14.22 | 22.35  | 7.87  | 0.07   |
| 3/4"            | 15.75 | 26.92  | 9.65  | 0.14   |
| 1"              | 19.05 | 35.05  | 9.65  | 0.21   |
| 1.1/4"          | 20.57 | 44.45  | 14.22 | 0.42   |
| 1.1/2"          | 20.57 | 50.80  | 15.75 | 0.58   |
| 2"              | 22.35 | 63.50  | 17.53 | 1.00   |
| 2.1/2"          | 26.92 | 76.20  | 19.05 | 1.85   |
| 3"              | 28.45 | 88.90  | 20.57 | 3.00   |
| 4"              | 31.75 | 117.35 | 25.40 | 6.00   |





## Conversion Tables

| Weight Conversion Table |          |          |        |         |         |
|-------------------------|----------|----------|--------|---------|---------|
|                         | Kilogram | Ton      | Ounce  | Pound   | Slug    |
| Kilogram                | 1        | 0.001    | 35.27  | 2.2     | 0.0685  |
| Ton                     | 1000     | 1        | 35274  | 2204.62 | 68.58   |
| Ounce                   | 0.028349 | 0.000028 | 1      | 0.0625  | 0.00194 |
| Pound                   | 0.45359  | 0.000454 | 16     | 1       | 0.03111 |
| Slug                    | 14.59    | 0.01459  | 514.82 | 32.136  | 1       |

| Length Conversion Table |         |           |         |         |          |
|-------------------------|---------|-----------|---------|---------|----------|
|                         | Meter   | Kilometer | Inch    | Foot    | Mile     |
| Meter                   | 1       | 0.001     | 39.37   | 3.28084 | 0.000621 |
| Kilometer               | 1000    | 1         | 39370.1 | 3280.84 | 0.62137  |
| Inch                    | 0.0254  | 0.0000254 | 1       | 0.08333 | 0.000015 |
| Foot                    | 0.3048  | 0.000348  | 12      | 1       | 0.000189 |
| Mile                    | 1609.34 | 1.609     | 63.346  | 5280    | 1        |

## Formulas

| Linear weight formula for smooth end pipe |                         |
|-------------------------------------------|-------------------------|
| P                                         | $(D - e) * e * 0.02466$ |

Where:

|   |                         |
|---|-------------------------|
| P | Weight in Kg/m          |
| D | Exterior Diameter in mm |
| e | Wall Thickness in mm    |

| Hydrostatic Formula (Barlow's Formula) |           |
|----------------------------------------|-----------|
| <b>P(Psi)</b>                          | $(2Se)/D$ |

Where:

|          |                            |
|----------|----------------------------|
| <b>P</b> | Pressure in Psi            |
| <b>D</b> | Exterior Diameter in inch  |
| <b>e</b> | Wall Thickness in inch     |
| <b>S</b> | Yield strength (Ys) in Psi |

| Hydrostatic Formula (Barlow's Formula) |           |
|----------------------------------------|-----------|
| <b>P(MPa)</b>                          | $(2Se)/D$ |

Where:

|          |                            |
|----------|----------------------------|
| <b>P</b> | Pressure in MPa            |
| <b>D</b> | Exterior Diameter in mm    |
| <b>e</b> | Wall Thickness in mm       |
| <b>S</b> | Yield strength (Ys) in MPa |

| Conventional Terms |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| <b>API</b>         | American Petroleum Institute                                                              |
| <b>ANSI</b>        | American National Standards Institute                                                     |
| <b>ASME</b>        | American Society of Mechanical Engineers                                                  |
| <b>ASTM</b>        | American Society of Testing Materials                                                     |
| <b>NACE</b>        | National Association of Corrosion Engineers                                               |
| <b>AWWA</b>        | American Water Works Association                                                          |
| <b>SSAW</b>        | Spiral / helical Seam Submerged Arc Welded pipe                                           |
| <b>DSAW</b>        | Double seam Submerged Arc Welded pipe                                                     |
| <b>LSAW</b>        | Longitudinal seam Submerged Arc Welded pipe (one seam)                                    |
| <b>ERW-HFI</b>     | Electric Resistance Welded High Frequency Induced                                         |
| <b>EFW</b>         | Electric Fusion Welded Tube                                                               |
| <b>SRL</b>         | Single Random Lengths: minimum average Lengths 17'6" - shortest length permissible is 9". |
| <b>DRL</b>         | Double Random Lengths: minimum average Lengths 35" - shortest length permissible is 14".  |



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