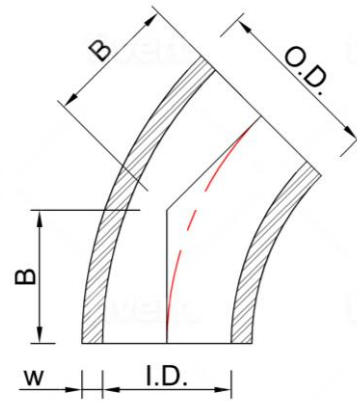


Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

## ASTM A403, B16.9

### 45° ELBOW - LONG RADIUS



45° LONG RADIUS ELBOWS

Grade: ☐ 304L ☐ 316L ☐ \_\_\_\_\_  
Seam: ☐ Welded ☐ Seamless ☐ WPWX  
Source: ☐ Import ☐ Domestic ☐ BAA ☐ AIS ☐ \_\_\_\_\_

## DIMENSIONS

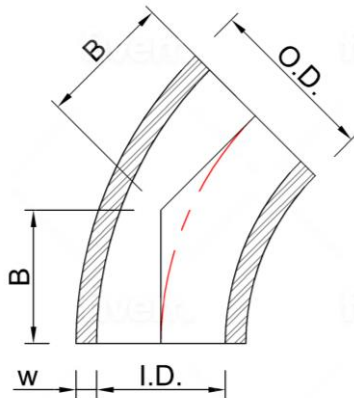
UOM: Inches/LBS

| SELECT                   | NOMINAL<br>PIPE SIZE | OUTSIDE<br>DIAMETER<br>(O.D.) | CENTER<br>TO<br>FACE<br>(B) | SCHEDULE 5S <input type="checkbox"/> < SELECT |                          |                  | SCHEDULE 10S <input type="checkbox"/> < SELECT |                          |                  |
|--------------------------|----------------------|-------------------------------|-----------------------------|-----------------------------------------------|--------------------------|------------------|------------------------------------------------|--------------------------|------------------|
|                          |                      |                               |                             | Inside<br>Diameter<br>(I.D.)                  | Wall<br>Thickness<br>(W) | Approx<br>Weight | Inside<br>Diameter<br>(I.D.)                   | Wall<br>Thickness<br>(W) | Approx<br>Weight |
| <input type="checkbox"/> | 1/2                  | 0.840                         | 5/8                         | 0.710                                         | 0.065                    | 0.06             | 0.674                                          | 0.083                    | 0.07             |
| <input type="checkbox"/> | 3/4                  | 1.050                         | 7/16                        | 0.920                                         | 0.065                    | 0.06             | 0.884                                          | 0.083                    | 0.07             |
| <input type="checkbox"/> | 1                    | 1.315                         | 7/8                         | 1.185                                         | 0.065                    | 0.12             | 1.097                                          | 0.109                    | 0.19             |
| <input type="checkbox"/> | 1 1/4                | 1.660                         | 1                           | 1.530                                         | 0.065                    | 0.19             | 1.442                                          | 0.109                    | 0.25             |
| <input type="checkbox"/> | 1 1/2                | 1.900                         | 1 1/8                       | 1.770                                         | 0.065                    | 0.25             | 1.682                                          | 0.109                    | 0.38             |
| <input type="checkbox"/> | 2                    | 2.375                         | 1 3/8                       | 2.245                                         | 0.065                    | 0.31             | 2.157                                          | 0.109                    | 0.56             |
| <input type="checkbox"/> | 2 1/2                | 2.875                         | 1 3/4                       | 2.709                                         | 0.083                    | 0.75             | 2.635                                          | 0.120                    | 1.06             |
| <input type="checkbox"/> | 3                    | 3.500                         | 2                           | 3.334                                         | 0.083                    | 1.06             | 3.260                                          | 0.120                    | 1.38             |
| <input type="checkbox"/> | 3 1/2                | 4.000                         | 2 1/4                       | 3.834                                         | 0.083                    | 1.16             | 3.760                                          | 0.120                    | 1.66             |
| <input type="checkbox"/> | 4                    | 4.500                         | 2 1/2                       | 4.334                                         | 0.083                    | 1.66             | 4.260                                          | 0.120                    | 2.38             |
| <input type="checkbox"/> | 5                    | 5.563                         | 3 1/8                       | 5.345                                         | 0.109                    | 3.25             | 5.295                                          | 0.134                    | 4.00             |
| <input type="checkbox"/> | 6                    | 6.625                         | 3 3/4                       | 6.407                                         | 0.109                    | 5.00             | 6.357                                          | 0.134                    | 6.00             |
| <input type="checkbox"/> | 8                    | 8.625                         | 5                           | 8.407                                         | 0.109                    | 8.65             | 8.329                                          | 0.148                    | 11.75            |
| <input type="checkbox"/> | 10                   | 10.750                        | 6 1/4                       | 10.482                                        | 0.134                    | 16.00            | 10.420                                         | 0.165                    | 21.50            |
| <input type="checkbox"/> | 12                   | 12.750                        | 7 1/2                       | 12.438                                        | 0.156                    | 25.50            | 12.390                                         | 0.180                    | 30.00            |
| <input type="checkbox"/> | 14                   | 14.000                        | 8 3/4                       | 13.688                                        | 0.156                    | 34.00            | 13.624                                         | 0.188                    | 40.00            |
| <input type="checkbox"/> | 16                   | 16.000                        | 10                          | 15.670                                        | 0.165                    | 50.00            | 15.624                                         | 0.188                    | 52.50            |
| <input type="checkbox"/> | 18                   | 18.000                        | 11 1/4                      | 17.670                                        | 0.165                    | 62.50            | 17.624                                         | 0.188                    | 66.00            |
| <input type="checkbox"/> | 20                   | 20.000                        | 12 1/2                      | 19.624                                        | 0.188                    | 82.50            | 19.564                                         | 0.218                    | 110.00           |
| <input type="checkbox"/> | 24                   | 24.000                        | 15                          | 23.564                                        | 0.218                    | 140.00           | 23.500                                         | 0.250                    | 155.00           |

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

**ASTM A403, B16.9**  
**45° ELBOW - LONG RADIUS**



45° LONG RADIUS ELBOWS

Grade: ☐ 304L    ☐ 316L    ☐ \_\_\_\_\_  
Seam: ☐ Welded    ☐ Seamless    ☐ WPWX  
Source: ☐ Import    ☐ Domestic    ☐ BAA    ☐ AIS    ☐ \_\_\_\_\_

**DIMENSIONS**

UOM: Inches/LBS

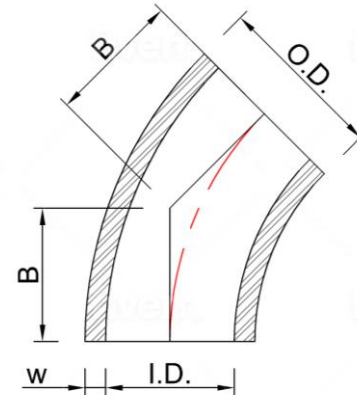
| SELECT                   | NOMINAL<br>PIPE SIZE | OUTSIDE<br>DIAMETER<br>(O.D.) | CENTER<br>TO<br>FACE<br>(B) | SCHEDULE 40S <input type="checkbox"/> < SELECT |                          |                  | SCHEDULE 80S <input type="checkbox"/> < SELECT |                          |                  |
|--------------------------|----------------------|-------------------------------|-----------------------------|------------------------------------------------|--------------------------|------------------|------------------------------------------------|--------------------------|------------------|
|                          |                      |                               |                             | Inside<br>Diameter<br>(I.D.)                   | Wall<br>Thickness<br>(W) | Approx<br>Weight | Inside<br>Diameter<br>(I.D.)                   | Wall<br>Thickness<br>(W) | Approx<br>Weight |
| <input type="checkbox"/> | ½                    | 0.840                         | 5/8                         | 0.622                                          | 0.109                    | 0.09             | 0.546                                          | 0.147                    | 0.12             |
| <input type="checkbox"/> | ¾                    | 1.050                         | 7/16                        | 0.824                                          | 0.113                    | 0.09             | 0.742                                          | 0.154                    | 0.12             |
| <input type="checkbox"/> | 1                    | 1.315                         | 7/8                         | 1.049                                          | 0.133                    | 0.25             | 0.957                                          | 0.179                    | 0.31             |
| <input type="checkbox"/> | 1 ¼                  | 1.660                         | 1                           | 1.380                                          | 0.140                    | 0.38             | 1.278                                          | 0.191                    | 0.50             |
| <input type="checkbox"/> | 1 ½                  | 1.900                         | 1 1/8                       | 1.610                                          | 0.145                    | 0.50             | 1.500                                          | 0.200                    | 0.63             |
| <input type="checkbox"/> | 2                    | 2.375                         | 1 3/8                       | 2.067                                          | 0.154                    | 0.88             | 1.939                                          | 0.218                    | 1.13             |
| <input type="checkbox"/> | 2 ½                  | 2.875                         | 1 3/4                       | 2.469                                          | 0.203                    | 1.69             | 2.323                                          | 0.276                    | 2.19             |
| <input type="checkbox"/> | 3                    | 3.500                         | 2                           | 3.068                                          | 0.216                    | 2.38             | 2.900                                          | 0.300                    | 3.31             |
| <input type="checkbox"/> | 3 ½                  | 4.000                         | 2 1/4                       | 3.548                                          | 0.226                    | 3.13             | 3.364                                          | 0.318                    | 4.40             |
| <input type="checkbox"/> | 4                    | 4.500                         | 2 1/2                       | 4.026                                          | 0.237                    | 4.60             | 3.826                                          | 0.337                    | 6.82             |
| <input type="checkbox"/> | 5                    | 5.563                         | 3 1/8                       | 5.047                                          | 0.258                    | 7.57             | 4.813                                          | 0.375                    | 10.56            |
| <input type="checkbox"/> | 6                    | 6.625                         | 3 3/4                       | 6.065                                          | 0.280                    | 12.00            | 5.761                                          | 0.432                    | 18.00            |
| <input type="checkbox"/> | 8                    | 8.625                         | 5                           | 7.981                                          | 0.322                    | 23.75            | 7.625                                          | 0.500                    | 36.50            |
| <input type="checkbox"/> | 10                   | 10.750                        | 6 1/4                       | 10.020                                         | 0.365                    | 42.50            | 9.750                                          | 0.500                    | 57.00            |
| <input type="checkbox"/> | 12                   | 12.750                        | 7 1/2                       | 12.000                                         | 0.375                    | 65.50            | 11.750                                         | 0.500                    | 87.50            |
| <input type="checkbox"/> | 14                   | 14.000                        | 8 3/4                       | 13.250                                         | 0.375                    | 77.50            | 13.000                                         | 0.500                    | 103.00           |
| <input type="checkbox"/> | 16                   | 16.000                        | 10                          | 15.250                                         | 0.375                    | 101.00           | 15.000                                         | 0.500                    | 134.00           |
| <input type="checkbox"/> | 18                   | 18.000                        | 11 1/4                      | 17.250                                         | 0.375                    | 131.00           | 17.000                                         | 0.500                    | 175.00           |
| <input type="checkbox"/> | 20                   | 20.000                        | 12 1/2                      | 19.250                                         | 0.375                    | 165.00           | 19.000                                         | 0.500                    | 219.00           |
| <input type="checkbox"/> | 24                   | 24.000                        | 15                          | 23.250                                         | 0.375                    | 232.00           | 23.000                                         | 0.500                    | 308.00           |

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43

Project Name: \_\_\_\_\_  
Job #: \_\_\_\_\_

## ASTM A403, B16.9

### 45° ELBOW - LONG RADIUS



45° LONG RADIUS ELBOWS

Grade: ☐ 304L ☐ 316L ☐ \_\_\_\_\_  
Seam: ☐ Welded ☐ Seamless ☐ WPWX  
Source: ☐ Import ☐ Domestic ☐ BAA ☐ AIS ☐ \_\_\_\_\_

## DIMENSIONS

UOM: Inches/LBS

| SELECT                   | NOMINAL<br>PIPE SIZE | OUTSIDE<br>DIAMETER<br>(O.D.) | CENTER<br>TO<br>FACE<br>(B) | SCHEDULE 160S <input type="checkbox"/> < SELECT |                          |                  | XX STRONG WALL <input type="checkbox"/> < SELECT |                          |                  |
|--------------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------------------|--------------------------|------------------|--------------------------------------------------|--------------------------|------------------|
|                          |                      |                               |                             | Inside<br>Diameter<br>(I.D.)                    | Wall<br>Thickness<br>(W) | Approx<br>Weight | Inside<br>Diameter<br>(I.D.)                     | Wall<br>Thickness<br>(W) | Approx<br>Weight |
| <input type="checkbox"/> | ½                    | 0.840                         | 5/8                         | 0.464                                           | 0.188                    | 0.16             | 0.252                                            | 0.294                    | 0.24             |
| <input type="checkbox"/> | ¾                    | 1.050                         | 7/16                        | 0.612                                           | 0.219                    | 0.16             | 0.434                                            | 0.308                    | 0.24             |
| <input type="checkbox"/> | 1                    | 1.315                         | 7/8                         | 0.815                                           | 0.250                    | 0.43             | 0.599                                            | 0.358                    | 0.62             |
| <input type="checkbox"/> | 1 ¼                  | 1.660                         | 1                           | 1.160                                           | 0.250                    | 0.85             | 0.896                                            | 0.382                    | 1.00             |
| <input type="checkbox"/> | 1 ½                  | 1.900                         | 1 1/8                       | 1.338                                           | 0.281                    | 0.88             | 1.100                                            | 0.400                    | 1.26             |
| <input type="checkbox"/> | 2                    | 2.375                         | 1 3/8                       | 1.689                                           | 0.343                    | 1.77             | 1.503                                            | 0.436                    | 2.26             |
| <input type="checkbox"/> | 2 ½                  | 2.875                         | 1 3/4                       | 2.125                                           | 0.375                    | 2.95             | 1.771                                            | 0.552                    | 4.38             |
| <input type="checkbox"/> | 3                    | 3.500                         | 2                           | 2.624                                           | 0.438                    | 4.80             | 2.300                                            | 0.600                    | 6.62             |
| <input type="checkbox"/> | 3 ½                  | 4.000                         | 2 1/4                       | ----                                            | ----                     | ----             | 2.728                                            | 0.636                    | 8.80             |
| <input type="checkbox"/> | 4                    | 4.500                         | 2 1/2                       | 3.438                                           | 0.531                    | 10.87            | 3.152                                            | 0.674                    | 13.64            |
| <input type="checkbox"/> | 5                    | 5.563                         | 3 1/8                       | 4.313                                           | 0.625                    | 17.52            | 4.063                                            | 0.750                    | 21.12            |
| <input type="checkbox"/> | 6                    | 6.625                         | 3 3/4                       | 5.187                                           | 0.719                    | 20.88            | 4.897                                            | 0.864                    | 36.00            |
| <input type="checkbox"/> | 8                    | 8.625                         | 5                           | 6.813                                           | 0.906                    | 64.24            | 6.875                                            | 0.875                    | 63.87            |
| <input type="checkbox"/> | 10                   | 10.750                        | 6 1/4                       | 8.500                                           | 1.125                    | 127.00           | ----                                             | ----                     | ----             |
| <input type="checkbox"/> | 12                   | 12.750                        | 7 1/2                       | 10.126                                          | 1.312                    | 229.00           | ----                                             | ----                     | ----             |
| <input type="checkbox"/> | 14                   | 14.000                        | 8 3/4                       | 11.188                                          | 1.406                    | ----             | ----                                             | ----                     | ----             |
| <input type="checkbox"/> | 16                   | 16.000                        | 10                          | 12.812                                          | 1.594                    | ----             | ----                                             | ----                     | ----             |
| <input type="checkbox"/> | 18                   | 18.000                        | 11 1/4                      | 14.438                                          | 1.781                    | ----             | ----                                             | ----                     | ----             |
| <input type="checkbox"/> | 20                   | 20.000                        | 12 1/2                      | 16.062                                          | 1.969                    | ----             | ----                                             | ----                     | ----             |
| <input type="checkbox"/> | 24                   | 24.000                        | 15                          | 19.312                                          | 2.344                    | ----             | ----                                             | ----                     | ----             |

ss wld ftg and pipe conform to ASTM A403 & MSS SP-43; dimensionally, all ftg conform to ASME B16.9  
(≠ Wall) & MSS SP-43