

## PIPE ATTACHMENTS

### DUCTILE IRON PIPE CLAMP

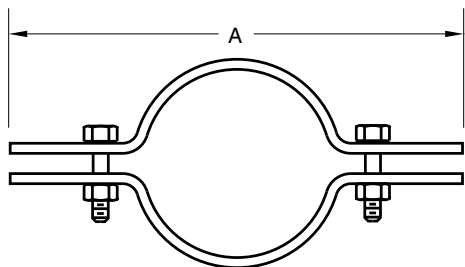
**Figure 158**

The Figure 158 can be used to secure mechanical joint piping or socket fittings together to prevent separation under pressure either under or above ground, vertically or horizontally. If use in this fashion two (2) Figure 258 Socket Clamp Washers and Figure 133 Rods are also required, but must be ordered separately. The Figure 158 may also be used to support and guide vertical Ductile Iron pipe.

**Materials:** Carbon Steel.

**Finish:** Plain, Painted, Hot-Dip Galvanized.

**Ordering:** Specify pipe size, figure number, and finish. For Metric applications specify Figure M158.



**FIGURE 158 – UNDERGROUND PIPE CLAMP**

| PIPE SIZE | ACTUAL PIPE O.D. | A                | WASHER SIZE    | WEIGHT EACH |
|-----------|------------------|------------------|----------------|-------------|
| 3         | 3.96             | 12 $\frac{3}{4}$ | $\frac{3}{4}$  | 9.00        |
| 80        | 101              | 311              | M20            | 4.08        |
| 4         | 4.8              | 13 $\frac{3}{4}$ | $\frac{3}{4}$  | 9.00        |
| 100       | 122              | 349              | M20            | 4.08        |
| 6         | 6.9              | 15 $\frac{3}{4}$ | $1\frac{1}{4}$ | 10.70       |
| 150       | 175              | 400              | M20            | 9.40        |
| 8         | 9.05             | 18               | $\frac{3}{4}$  | 12.20       |
| 200       | 230              | 457              | M20            | 5.54        |
| 10        | 11.1             | 20 $\frac{3}{4}$ | $\frac{3}{4}$  | 14.60       |
| 250       | 282              | 511              | M20            | 6.64        |
| 12        | 13.2             | 22 $\frac{3}{4}$ | $\frac{3}{4}$  | 16.60       |
| 300       | 335              | 581              | M20            | 7.53        |
| 14        | 15.3             | 25 $\frac{1}{2}$ | $1\frac{1}{4}$ | 41.90       |
| 350       | 389              | 648              | M30            | 18.99       |
| 16        | 17.4             | 28               | $1\frac{1}{4}$ | 61.90       |
| 400       | 442              | 711              | M30            | 28.10       |
| 18        | 19.5             | 33               | $1\frac{1}{4}$ | 65.10       |
| 450       | 495              | 838              | M30            | 29.50       |
| 20        | 21.6             | 35 $\frac{1}{2}$ | $1\frac{1}{2}$ | 92.20       |
| 500       | 549              | 902              | M36            | 41.80       |
| 24        | 25.8             | 40 $\frac{1}{2}$ | $1\frac{1}{2}$ | 122.70      |
| 600       | 655              | 1029             | M36            | 55.70       |
| 30        | 32               | 48               | $1\frac{1}{2}$ | 184.00      |
| 750       | 813              | 1219             | M36            | 83.50       |

### DOUBLE BOLT DUCTILE IRON PIPE CLAMP

**Figure 158DB**

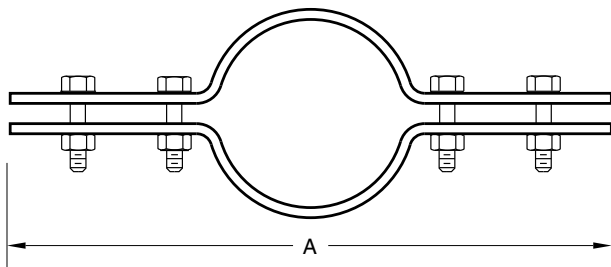
The Figure 158DB can be used in the same manner as the Figure 158, except the overall length is longer.

**Materials:** Carbon Steel.

**Compliance:** NFPA Standard NFPA-24 for Outside Protection.

**Finish:** Plain, Painted, Hot-Dip Galvanized.

**Ordering:** Specify pipe size, figure number, and finish. For Metric applications specify Figure M158DB.



**FIGURE 158DB – UNDERGROUND PIPE CLAMP**

| PIPE SIZE | ACTUAL PIPE O.D. | A                | WASHER SIZE    | WEIGHT EACH |
|-----------|------------------|------------------|----------------|-------------|
| 3         | 3.96             | 13 $\frac{3}{4}$ | $\frac{3}{4}$  | 9.50        |
| 80        | 101              | 340              | M16            | 4.31        |
| 4         | 4.8              | 14 $\frac{3}{4}$ | $\frac{5}{8}$  | 10.00       |
| 100       | 122              | 375              | M16            | 4.54        |
| 6         | 6.9              | 17               | $\frac{5}{8}$  | 12.00       |
| 150       | 175              | 432              | M16            | 9.40        |
| 8         | 9.05             | 19 $\frac{1}{2}$ | $\frac{5}{8}$  | 21.00       |
| 200       | 230              | 495              | M16            | 9.53        |
| 10        | 11.1             | 23 $\frac{3}{4}$ | $\frac{3}{4}$  | 24.00       |
| 250       | 282              | 591              | M20            | 10.89       |
| 12        | 13.2             | 25 $\frac{1}{2}$ | $\frac{7}{8}$  | 36.00       |
| 300       | 335              | 648              | M20            | 16.33       |
| 14        | 15.3             | 28 $\frac{3}{4}$ | $1\frac{1}{4}$ | 48.60       |
| 350       | 389              | 718              | M30            | 22.04       |
| 16        | 17.4             | 31 $\frac{1}{2}$ | $1\frac{1}{4}$ | 71.80       |
| 400       | 442              | 800              | M30            | 32.50       |
| 18        | 19.5             | 35 $\frac{3}{4}$ | $1\frac{1}{4}$ | 85.30       |
| 450       | 495              | 895              | M30            | 38.70       |
| 20        | 21.6             | 37 $\frac{3}{4}$ | $1\frac{1}{2}$ | 102.00      |
| 500       | 549              | 959              | M36            | 46.30       |
| 24        | 25.8             | 44 $\frac{1}{2}$ | $1\frac{1}{2}$ | 136.60      |
| 600       | 655              | 1130             | M36            | 62.00       |
| 30        | 32.0             | 53               | $1\frac{3}{4}$ | 204.00      |
| 750       | 813              | 1346             | M42            | 93.00       |

| DIMENSIONS  |            | TEMPERATURE | LOADS   | WEIGHT    |
|-------------|------------|-------------|---------|-----------|
| INCHES      | FAHRENHEIT |             | POUNDS  | POUNDS    |
| MILLIMETERS | CELSIUS    |             | NEWTONS | KILOGRAMS |