

## LOW LEAD COMPLIANT WATER HAMMER ARRESTORS

### Applications:

The FNW water hammer arrestors are engineered devices that provide maintenance-free continuous protection systems against water hammer. Water hammer is a hydraulic shock wave generated within a water distribution system due to a sudden stop in water flow. If allowed to exist for any length of time, water hammer can cause pipes to rattle, is capable of bursting pipe, and damaging other components within the system. When installed properly, there is an unobstructed shock path to the arrestor that is absorbed by a piston driven and isolated cushion of air.

### Features:

- Lead Free Certified
  - Max. Static (Working) Pressure: 150 PSI
  - Max. Spike Pressure: 350 PSI
  - Temperature: 33°F to 180°F (0.6°C to 82°C)
  - End Connection: NPT (X10P), Cx (X11P)
  - For Commercial and Residential Systems
  - Suitable for Potable Water Applications
  - Designed for Vertical or Horizontal Installation (not to be installed in the inverted position)
  - Can be installed in systems without need for access panels\*
- \* Always check local plumbing codes to determine if access panels are required.
- \* Sweat version not to be used in conjunction with copper propress system due to brass connection.

### Standards:

- Federal Safe Drinking Water Act, Sec. 1417 (Lead Free)
- ASSE Standard 1010
- IAPMO Listed (cUPC)

### Warranty:

- Guaranteed for the life of the system they are installed in.



Low Lead Compliant: Referring to laws defining "Lead Free" as wetted surface of pipe, fittings and fixtures in potable water systems that have a weighted average lead content  $\leq 0.25\%$  per the Safe Drinking Water Act (Sec. 1417) amended 1-4-2011 as well as other state regulations.



### Sizing / PDI Fixture Units\*

| FNW Size | PDI Size Code |      | PDI Fixture Units |
|----------|---------------|------|-------------------|
|          | X10P          | X11P |                   |
| 1/2"     | A             | A    | 1 - 11            |
| 3/4"     | B             | B    | 12 - 32           |
| 1"       | C             | C    | 33 - 60           |
| 1-1/4"   | D             | D    | 61 - 113          |
| 1-1/2"   | E             |      | 114 - 154         |
| 2"       | F             |      | 155 - 330         |

\* As outlined in The Plumbing and Drainage Institute standard PDI-WH 201. See the FNW water hammer arrestor IOM for more details.

### Figure Number Matrix

| FNW End Size                         |           |              |
|--------------------------------------|-----------|--------------|
| END TYPE                             | SIZE CODE |              |
| X10P = MALE NPT (1/2" to 2")         | 1/2 = 500 | 1-1/4 = 1250 |
| X11P = COPPER SWEAT (1/2" to 1-1/4") | 3/4 = 750 | 1-1/2 = 1500 |
|                                      | 1 = 1000  | 2 = 2000     |

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Fig. X10P

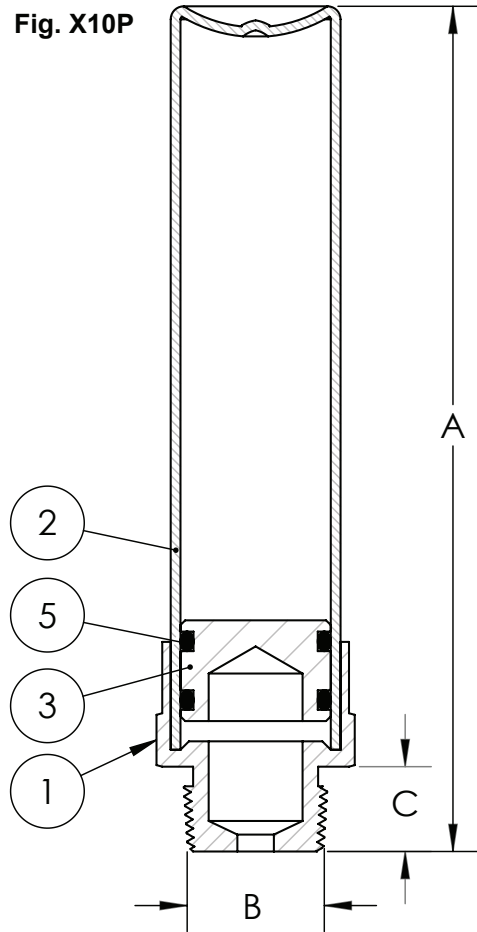
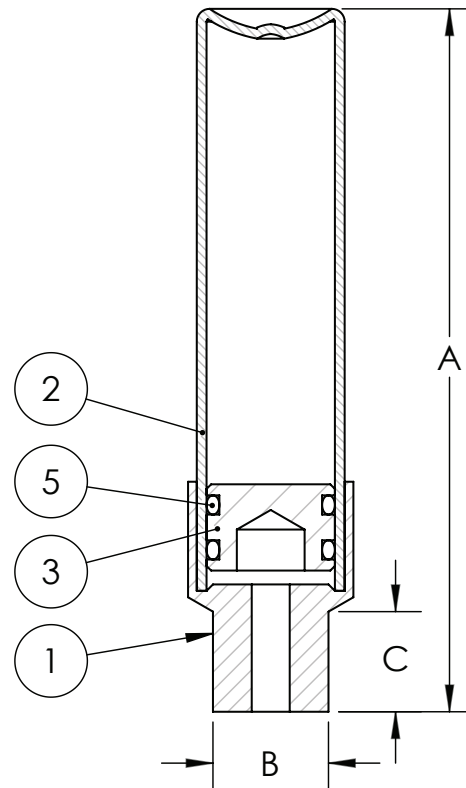


Fig. X11P



### Standard Materials

| Ref. No. | Description | Material                | Qty |
|----------|-------------|-------------------------|-----|
| 1        | Body        | Lead Free Brass, C46400 | 1   |
| 2        | Cylinder    | Copper C12200           | 1   |
| 3        | Piston      | PP+30% Fiber            | 1   |
| 5        | O-ring      | EPDM                    | 2   |

### Dimensions (inches)

| Size  | Fig. 10P |                |      | Fig. 11P |       |      |
|-------|----------|----------------|------|----------|-------|------|
|       | A        | B (NPT)        | C    | A        | B     | C    |
| 1/2   | 4.75     | 1/2 - 14       | 0.63 | 4.96     | 0.625 | 0.72 |
| 3/4   | 5.37     | 3/4 - 14       | 0.65 | 5.57     | 0.875 | 0.80 |
| 1     | 6.70     | 1 - 11 1/2     | 0.74 | 6.85     | 1.125 | 0.98 |
| 1-1/4 | 8.20     | 1-1/4 - 11 1/2 | 0.88 | 8.30     | 1.375 | 1.10 |
| 1-1/2 | 9.40     | 1-1/2 - 11 1/2 | 0.94 |          |       |      |
| 2     | 9.40     | 2 - 11 1/2     | 0.94 |          |       |      |

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