Reduced Pressure Detector Assembly

Model 475DA/475DAV

Application
Designed for installation on water lines in fire protection systems to protect against both backsporhage and backpressure of contaminated water into the potable water supply. The Model 475DA/475DAV shall provide protection where a potential health hazard exists. Incorporates metered by-pass to detect leaks and unauthorized water use.

Standards Compliance
- ASSE® Listed 1047 (4” thru 8”)
- AWWA Compliant C550
- UL® Classified (4” thru 10”)
- C-UL® Classified (4” thru 10”)
- FM® Approved (4” thru 8”)
- NYC MEA 170-02-M VOL 2 (4” thru 8”)
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California (4” thru 8”)
- Meets the requirements of NSF/ANSI 61*
* (0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Materials
- Main valve body: Ductile Iron ASTM A 536 Grade 4
- Access covers: Ductile Iron ASTM A 536 Grade 4
- Coatings: FDA Approved fusion epoxy finish
- Fasteners: Stainless Steel, 300 Series
- Elastomers: Buna Nitrile (FDA approved)
- Polymers: NORYL™
- Springs: Stainless Steel, 300 series

Features
Sizes: 4", 6", 8", 10"
- Maximum working water pressure: 175 PSI
- Maximum working water temperature: 140°F
- Hydrostatic test pressure: 350 PSI
- End connections: (Grooved for steel pipe) AWWA C606
- (Flanged) ANSI B16.1

Relief Valve discharge port:
- 2 1/2” - 6” - .75 sq. in.
- 8” - 10” - .39 sq. in.

Dimensions & Weights (do not include pkg.)

<table>
<thead>
<tr>
<th>MODELS 475DA &amp; 475DAV SIZE</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>LESS SHUT-OFF VALVES</td>
<td>WITH OS&amp;Y GATES (GXF)</td>
</tr>
<tr>
<td>lbs.</td>
<td>kg</td>
</tr>
<tr>
<td>4”</td>
<td>113</td>
</tr>
<tr>
<td>6”</td>
<td>187</td>
</tr>
<tr>
<td>8”</td>
<td>421</td>
</tr>
<tr>
<td>10”</td>
<td>493</td>
</tr>
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Options
(Suffixes can be combined)
- L - less OS & Y gate valves (standard)
- LM - less water meter
- V - vertical flow up configuration
- G - with groove end gate valves
- FG - with flanged inlet gate connection and grooved outlet gate connection
- BG - with grooved end butterfly valves with integral supervisory switches
- BF - with flanged end butterfly valves with integral supervisory switches
- PI - with post indicator gate valve
- –509 - with AWWA C509 gate valves

Accessories
- Air gap (see spec sheet BF-AG)
- Repair kit (rubber only)
- Thermal expansion tank (Model XT)
- Valve setter (Model FLS or MJS or MJFS)
- Gate valve tamper switch (OSY-40)
- QT-SET Quick Test Fitting Set

Dimensions (approximate)

<table>
<thead>
<tr>
<th>MODELS 475DA &amp; 475DAV SIZE</th>
<th>DIMENSIONS</th>
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<tbody>
<tr>
<td>MODELS 475DA &amp; 475DAV SIZE</td>
<td>A</td>
</tr>
<tr>
<td>in.</td>
<td>mm</td>
</tr>
<tr>
<td>4” 475DA</td>
<td>18 5/16</td>
</tr>
<tr>
<td>4” 475DAV</td>
<td>18 7/8</td>
</tr>
<tr>
<td>6” 475DA</td>
<td>18 11/16</td>
</tr>
<tr>
<td>6” 475DAV</td>
<td>21</td>
</tr>
<tr>
<td>8” 475DA</td>
<td>29</td>
</tr>
<tr>
<td>8” 475DAV</td>
<td>30 5/16</td>
</tr>
<tr>
<td>10” 475DA</td>
<td>30 5/16</td>
</tr>
<tr>
<td>10” 475DAV</td>
<td>35 3/8</td>
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Typical Installation
Local codes shall govern installation requirements. To be installed in accordance with the manufacturers’ instructions and the latest edition of the Uniform Plumbing Code. Unless otherwise specified, the assembly shall be mounted above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.

Specifications
The Reduced Pressure Detector Assembly shall be certified to NSF/ANSI 61, ASSE® Listed 1047, and supplied with full port OS & Y gate valves. The main body and access covers shall be epoxy coated ductile iron (ASTM A 536 Grade 4), the seat ring and check valve shall be NORYL™, the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The first and second checks shall be accessible for maintenance without removing the relief valve or the entire device from the line. If installed indoors, the installation shall be supplied with an air gap adapter. The Reduced Pressure Detector Assembly shall be a ZURN WILKINS Model 475DA or 475DAV.