**Model 350ASTDA**

**Double Check Detector Assembly**

**Application**
Designed for installation on water lines in fire protection systems to protect against both backspiphonage and backpressure of polluted water into the potable water supply. Model 350ASTDA shall provide protection where a potential health hazard does not exist. Incorporates metered by-pass to detect leaks and unauthorized water use.

**Standards Compliance (Horizontal & Vertical)**
- ASSE® Listed 1048
- AWWA Compliant C510 (with gates only) and C550
- UL® Classified
- C-UL® Classified
- FM® Approved
- CSA® Certified
- C-UL® Classified
- NSF® Listed-Standard 61, Annex G*
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
- NSF® Listed-Standard 61, Annex G*
- *(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)*

**Materials**
- Main valve body: 304L Stainless steel
- Access covers: 304L Stainless steel
- Internals: Stainless steel, 300 Series NORYL™, NSF Listed
- Fasteners & springs: Stainless Steel, 300 Series
- Elastomers: EPDM (FDA approved)
- Polymers: NORYL™, NSF Listed
- Buna Nitrile (FDA approved)

**Features**
- Sizes: □ 2 1/2", 3", 4", 6", 8", 10" (Suffixes can be combined)
- 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 with flanged end OS & Y gate valves (standard)
- (Flanged) ANSI B16.1 Class 125
- Designated for installation on water lines in fire protection systems
- Hydrostatic test pressure: 350 PSI
- Maximum working water temperature: 140°F
- Maximum working water pressure: 175 PSI
- End connections: (Grooved for steel pipe) AWWA C606

**Dimensions & Weights (do not include pkg.)**

<table>
<thead>
<tr>
<th>MODEL 350ASTDA SIZE</th>
<th>WEIGHT WITH OS&amp;Y GATES (GXF)</th>
<th>WEIGHT WITH BUTTERFLY VALVES (GXF)</th>
<th>WEIGHT WITH BUTTERFLY VALVES (FXG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>in.</td>
<td>lbs.</td>
<td>kg</td>
<td>in.</td>
</tr>
<tr>
<td>2 1/2</td>
<td>62</td>
<td>126</td>
<td>57</td>
</tr>
<tr>
<td>3</td>
<td>80</td>
<td>143</td>
<td>65</td>
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<tr>
<td>4</td>
<td>100</td>
<td>218</td>
<td>99</td>
</tr>
<tr>
<td>6</td>
<td>150</td>
<td>352</td>
<td>160</td>
</tr>
<tr>
<td>8</td>
<td>200</td>
<td>667</td>
<td>303</td>
</tr>
<tr>
<td>10</td>
<td>250</td>
<td>885</td>
<td>401</td>
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</table>

**Options**
(Suffixes can be combined)
- LM - less water meter
- PI - with Post Indicator Gate Valves
- BF - with flanged end butterfly valves with integral supervisory switches
- BG - with grooved end butterfly valves with integral supervisory switches
- OS & Y Gate valve tamper switch (OSY-40)
- CG - with remote reading meter
- CM - with cu meter
- CFM - with cu ft meter
- G - with grooved end OS & Y gate valves
- FG - with flanged inlet gate connection and grooved outlet gate connection
- LM - less water meter
- CG - with remote reading meter
- CGM - with cu meter
- G - with grooved end OS & Y gate valves
- FG - with flanged inlet gate connection and grooved outlet gate connection

**Accessories**
- Repair kit (rubber only)
- Thermal expansion tank (Model XT)
- OS & Y Gate valve tamper switch (OSY-40)

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**Options**
(Suffixes can be combined)
- LM - less water meter
- PI - with Post Indicator Gate Valves
- BF - with flanged end butterfly valves with integral supervisory switches
- BG - with grooved end butterfly valves with integral supervisory switches

**Dimensions (approximate)**

<table>
<thead>
<tr>
<th>MODEL 350ASTDA SIZE</th>
<th>DIMENSION</th>
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<tbody>
<tr>
<td>in.</td>
<td>A</td>
</tr>
<tr>
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<td>115</td>
</tr>
<tr>
<td>3</td>
<td>160</td>
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<td>200</td>
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<tr>
<td>6</td>
<td>250</td>
</tr>
<tr>
<td>8</td>
<td>300</td>
</tr>
<tr>
<td>10</td>
<td>350</td>
</tr>
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</table>
Flow Characteristics

Typical Installation
Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) 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 Double Check Detector Backflow Prevention Assembly shall be ASSE® Listed 1048, and supplied with full port gate valves. The main body and access cover shall be 304L Stainless Steel, the seat ring and check valve shall be Noryl™ (NSF Listed), the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The first and second check valves shall be accessible for maintenance without removing the device from the line. The Double Check Detector Backflow Prevention Assembly shall be a ZURN WILKINS Model 350ASTDA.