Double Check Valve Assembly

Model 350AST

Application
Designed for installation on potable water lines to protect against both backspionage and backpressure of polluted water into the potable water supply. The Model 350AST shall provide protection where a potential health hazard does not exist. Ideal for use where Lead-Free* valves are required.

Standard Compliance (Horizontal and Vertical)
- ASSE® Listed 1015
- AWWA Compliant C510 (with gates only), and C550
- UL® Classified
- C-UL® Classified
- FM® Approved
- CSA® Certified
- IAPMO® Listed
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
- NSF® Listed-Standard 61, Annex G*
- Certified to NSF/ANSI 372* by IAPMO R&T
- (0.25% max. weighted average lead content)
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Options (Suffixes can be combined)
- with flanged end NRS gate valves (standard)
- FSC - with epoxy coated wye type strainer (flanged only)
- G - with grooved end NRS gate valves
- GF - with grooved inlet gate connection and flanged outlet gate connection
- FG - with flanged inlet gate connection and grooved outlet gate connection
- OSY - flanged end OSY gate valves
- OSYG - with grooved end OSY gate valves
- PI - with Post Indicator Gate Valves
- BG - with grooved end butterfly valves with integral supervisory switches (2-1/2" - 6")
- BF - with flanged end butterfly valves with integral supervisory switches (2-1/2" - 6")
- BGVIC - with grooved end butterfly valves with integral supervisory switches (8" - 10")

Materials
Main valve body 304L Stainless steel
Access covers 304L Stainless steel
Internals Stainless steel, 300 Series
Fasteners and springs Stainless Steel, 300 Series
Seal ring EPDM (FDA approved)
O-ring Buna Nitrile (FDA approved)

Features
Sizes: 2 1/2", 3", 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) ANSI B16.1 Class 125
(Accessories)

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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 Backflow Prevention Assembly shall be certified to NSF/ANSI 372, ASSE® Listed 1015, 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™, the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The checks shall be accessible for maintenance without removing the device from the line. The Double Check Backflow Prevention Assembly shall be a ZURN WILKINS Model 350AST.

The table provides the capacity thru Schedule 40 Pipe (GPM) for different size pipes:

<table>
<thead>
<tr>
<th>Pipe size</th>
<th>5 ft/sec</th>
<th>7.5 ft/sec</th>
<th>10 ft/sec</th>
<th>15 ft/sec</th>
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<td>2 1/2&quot;</td>
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<td>112</td>
<td>149</td>
<td>224</td>
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<tr>
<td>3&quot;</td>
<td>115</td>
<td>173</td>
<td>230</td>
<td>346</td>
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