Compact and Light-Weight Steam Traps

Rapid Initial Air Venting
Automatic bimetal air vent provides rapid air venting at start-up.

Steam-Tight Seal
Three-point seating and constant water seal ensure steam-tight seal even under low-load conditions.

Easy Maintenance
All internal parts can be accessed by removing the trap cover.

Operation

1. Rapid Discharge of Initial Air
During startup, the bimetal strip lifts up the float, opening the valve allowing air and cold condensate to be discharged as it flows into the trap.

2. Continuous Discharge
As temperatures increase, the bimetal retracts, allowing the float to move freely. The float modulates with the condensate load, automatically adjusting the size of the orifice and the rate of condensate discharge.

3. Tight Sealing
When the flow of condensate stops, the float seats on the orifice supported by the orifice and two machined guides. The water level remains above the orifice to provide a steam-tight seal. The temperature keeps the bimetal retracted so that it does not affect the float’s seating.

Continuous Condensate Discharge
Self-modulating stainless steel free float provides continuous condensate discharge regardless of condensation rate. With virtually limitless sealing surfaces, the precision-ground float is durable with a long service life.

Easy Installation
Same side inlet and outlet port connection allows for easy installation.

<table>
<thead>
<tr>
<th>Model</th>
<th>Connection</th>
<th>Orifice No.</th>
<th>Maximum Operating Pressure (psig)</th>
<th>Maximum Differential Pressure (psi)</th>
<th>Minimum Operating Pressure (psig)</th>
<th>Maximum Operating Temperature (°F)</th>
<th>Maximum Allowable Pressure (psig)</th>
<th>Maximum Allowable Temperature (°F)</th>
<th>Maximum Discharge Capacity (lb/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ3</td>
<td>Screwed (NPT)</td>
<td>1, 2, 5, 10, 14</td>
<td>15, 30, 75, 150, 200</td>
<td>15, 30, 75, 150, 200</td>
<td>1, 2, 5, 10, 14</td>
<td>428</td>
<td>250</td>
<td>428</td>
<td>1,360</td>
</tr>
<tr>
<td>SJ5</td>
<td>Screwed (NPT)</td>
<td>1, 2, 5, 10, 14</td>
<td>15, 30, 75, 150, 200</td>
<td>15, 30, 75, 150, 200</td>
<td>1, 2, 5, 10, 14</td>
<td>428</td>
<td>250</td>
<td>428</td>
<td>2,540</td>
</tr>
<tr>
<td>SJ6</td>
<td>Screwed (NPT)</td>
<td>1, 2, 5, 10, 14</td>
<td>15, 30, 75, 150, 200</td>
<td>15, 30, 75, 150, 200</td>
<td>1, 2, 5, 10, 14</td>
<td>428</td>
<td>250</td>
<td>428</td>
<td>7,320</td>
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<td>SJ7</td>
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<td>15, 30, 75, 150, 200</td>
<td>1, 2, 5, 10, 14</td>
<td>428</td>
<td>250</td>
<td>428</td>
<td>14,180</td>
</tr>
</tbody>
</table>

Full product details (sizes, pressures, capacities and materials) are included in the individual specification data sheets (SDS).

**CAUTION** To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

**CAUTION** DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE. Allow internal pressure of this product to equal atmospheric pressure and its surface to cool to room temperature before disassembling or removing. Failure to do so could cause burns or other injury. READ INSTRUCTION MANUAL CAREFULLY.