2000 Series Inverted Bucket Steam Trap
All Stainless Steel With 360° Connector/IS-2/TVS-4000
For Pressures to 650 psig (45 bar)...Capacities to 1,300 lb/hr (590 kg/hr)

Description
With the 2000 Series’ 360° universal connector, you can install inverted bucket efficiency and long service life in any piping configuration with little or no repiping. You get the reliability of the inverted bucket operating principle, plus all the benefits of all-stainless steel construction:

- A sealed, tamperproof package
- A compact, lightweight trap
- The ability to withstand freeze-ups without damage
- Exceptional corrosion resistance
- A three-year guarantee against defective materials, defective workmanship.

2000 Series steam traps combine savings in three important areas: energy, installation and replacement. The 360° universal connector provides quick, easy in-line replacement along with all the proven advantages of inverted bucket operation.

Also available with optional IS-2 integral strainer connector.

Maximum Operating Conditions
Maximum allowable pressure (vessel design):
Model 2010, 2011: 400 psig @ 800°F (28 bar @ 427°C)
Model 2022: 650 psig @ 600°F (45 bar @ 315°C)

Maximum operating pressure:
Model 2010: 200 psig (14 bar)
Model 2011: 400 psig (28 bar)
Model 2022: 650 psig (45 bar)

Connections
Screwed NPT and BSPT
Socketweld
Flanged (consult factory)

Materials
Body: ASTM-A 240 Grade 304L
Internals: All stainless steel—304
Valve and seat: Hardened chrome steel—17-4PH or Titanium
Connector body (std & IS-2): Stainless steel—304
Flange: ASTM A105 Zinc plated

Options
- Insu-Pak™ insulation for Models 2010/2011
- Stainless steel pop drain for Models 2011/2022
- Probe connection for Models 2011/2022
- Strainer blowdown valve for IS-2 connector
- Wiggle wire

360° Connector Styles
- Standard connector
- IS-2 connector with integral strainer
- IS-2 connector with integral strainer with blowdown valve

Specification
Inverted bucket steam trap, type ..., in all stainless steel, freeze resistant, with 360° universal connector, having continuous air venting at steam temperature, free-floating stainless steel mechanism, and orifice at the top of the trap.

How to Order
Specify:
- Model number
- Size and type of pipe connection
- Type of 360° connector (with or without strainer)
- Maximum working pressure that will be encountered or orifice size
- Any options required

For a fully detailed certified drawing, refer to:
2000 Series with Standard Connector CD #1003
2000 Series with IS-2 Connector CD #1113

Allow 2-1/2” clearance for bolt installation and removal.

Model 2011 Trap With Standard Connector

2000 Series Traps With IS-2 Connector

2000 Series Traps With Standard Connector

<table>
<thead>
<tr>
<th>Model No.</th>
<th>2010</th>
<th>2011</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe Connections</td>
<td>in</td>
<td>mm</td>
<td>in</td>
</tr>
<tr>
<td>1/2, 3/4</td>
<td>15, 20</td>
<td>1</td>
<td>25</td>
</tr>
<tr>
<td>“A” (Diameter)</td>
<td>2-11/16</td>
<td>68</td>
<td>2-11/16</td>
</tr>
<tr>
<td>“B” (Height)</td>
<td>6</td>
<td>152</td>
<td>6</td>
</tr>
<tr>
<td>“C” (Face to Face)</td>
<td>3-1/2</td>
<td>89</td>
<td>4</td>
</tr>
<tr>
<td>“D” (Bottom to Ø)</td>
<td>5</td>
<td>127</td>
<td>5</td>
</tr>
<tr>
<td>“E” (Outside to Bolt)</td>
<td>5-1/2</td>
<td>140</td>
<td>5-1/2</td>
</tr>
<tr>
<td>“F” (Ø to Outside)</td>
<td>4-5/8</td>
<td>117</td>
<td>4-13/16</td>
</tr>
</tbody>
</table>

Weight lb (kg)
- 4-1/4 (1.9) mm
- 5-1/2 (2.5) mm

*Add 1/2” (15 mm) to “B” and “D” dimensions when optional probe connection is required.

Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit armstronginternational.com for up-to-date information.
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Model 2010 Capacity

Model 2011 Capacity

Model 2022 Capacity

*NOTE: Because the orifice is located at the top, inverted bucket steam traps handle dirt and scale better than other types of traps. However, in applications where extremely dirty conditions exist, care should be exercised in the use of all types of restricted-orifice, reduced-capacity traps.

Connectors
Besides the inverted bucket traps, the standard connector, IS-2 connector, and TVS-4000 connector with integral strainer can also be used on thermostatic, thermostatic wafer and disc traps.

Options
Pop Drain for Freeze Protection
In general, a properly selected and installed Armstrong trap will not freeze as long as steam is coming to the trap. If the steam supply is shut off, a pop drain should be used to automatically drain the trap. Stainless steel pop drain available for Models 2011 and 2022.

Maximum Operating Conditions
Pressure: 600 psig (41 bar)
Temperature: 350°F (177°C)

Insu-Pak
Now you can insulate the in-line traps in your plant without complicating regular trap maintenance. Insu-Pak, a simple reusable insulation package, cuts the time and cost of in-field installation because it goes on in a snap. And it comes off just as easily. The Insu-Pak can prevent trap freeze-up when used with a properly designed condensate manifold. Designed for use with Model 2010 and Model 2011 traps.

Probe connections are available for trap monitoring for Models 2011 and 2022.

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