INVERTED BUCKET STEAM TRAP
TYPE WZ-200

Main dimensions

<table>
<thead>
<tr>
<th>DN (mm)</th>
<th>Dz (mm)</th>
<th>Do (mm)</th>
<th>do x n</th>
<th>Dp (mm)</th>
<th>g (mm)</th>
<th>f (mm)</th>
<th>L (mm)</th>
<th>H1 (mm)</th>
<th>H2 (mm)</th>
<th>K</th>
<th>D (mm)</th>
<th>weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>95</td>
<td>65</td>
<td>14 x 4</td>
<td>45</td>
<td>16</td>
<td>2</td>
<td>150</td>
<td>157</td>
<td>8</td>
<td>86</td>
<td>73</td>
<td>4,1</td>
</tr>
<tr>
<td>20</td>
<td>105</td>
<td>75</td>
<td>14 x 4</td>
<td>58</td>
<td>18</td>
<td>2</td>
<td>150</td>
<td>157</td>
<td>8</td>
<td>86</td>
<td>73</td>
<td>4,6</td>
</tr>
<tr>
<td>25</td>
<td>115</td>
<td>85</td>
<td>14 x 4</td>
<td>68</td>
<td>18</td>
<td>2</td>
<td>160</td>
<td>157</td>
<td>8</td>
<td>86</td>
<td>73</td>
<td>4,9</td>
</tr>
</tbody>
</table>

Capacity chart

- Condensate at saturation temperature
- Maximum differential pressure, $\Delta p_{max}$ (MPa)
- Nozzle diameter, $d$ (mm)
- $\Delta p_{max}$ (MPa) - Maximum differential pressure

POLNA ENGINEERING Sp. z o.o.
ul. T. Kościuszki 227
40-600 Katowice
tel. +48 32 781 85 17
fax +48 32 750 06 65
e-mail: polna@polna-eng.pl
internet: www.polna-eng.pl
1. Application range
Nominal Pressure: PN 4.0 MPa
Maximum allowable/testing pressure: PMA/PT: 4.0/6.0 MPa
Maximum allowable temperature: TMA: 400°C
Tightness testing pressure: PT: 0.6 MPa
Tightness testing at negative pressure: Pv: -0.05 MPa

<table>
<thead>
<tr>
<th>DN</th>
<th>PN</th>
<th>Casing testing pressure</th>
<th>Maximum allowable pressure PMA at related maximum allowable temperature TMA</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>MPa</td>
<td></td>
<td>-10°C-50°C</td>
</tr>
<tr>
<td>15-25</td>
<td>4.0</td>
<td>6.0</td>
<td>4.08</td>
</tr>
</tbody>
</table>

2. Basic materials
- Body, cover: forged carbon steel P250GH (C22.8)
  - standard version: zinc plated
- Anticorrosion coating: optional version: nickel or chrome plating
- Internal parts: acid resistant high-alloy steel
- Nozzle and needle: hardened stainless steel (hardness ~60 HRC)

3. Design
- Connections: flanged DN15 - DNS0, face type B1 acc. to PN-EN 1092-1
  - internally screwed Rp 1/2" - Rp 1"
  - butt weld ends S 1/2" - S 1"
  - flanges acc. to ANSI or DIN at the client’s request
- Optional external fittings: drain screw (plug), drain valve
- Optional internal fittings: ball check valve

4. Characteristics
Iverted bucket steam traps operate thanks to the difference in displacement of the float which is filled with condensate or a mixture of steam and water. Their use is recommended in conditions where you have variable quantities of condensate. They show high resistance to water hammer, overheating and corrosion (for more information - see page 5).

5. Requirements and testing
- Flanges connecting sizes acc. to PN-EN 1092-1.
- Face to face acc. to the table.
- Design acc. to WUDT-UC-WO-D.
- Manufacturing acc. to WUDT-UC-WO-W.
- Pressure testing acc. to PN-EN 26948
- Certificate of conformity in acc. with PN-EN 10204
According to the directive Pressure Equipment Directive 97/23/CE, WZ-104 series of steam traps are not subject to CE marking and have been made in accordance to art. 3 pos. 3 of the directive mentioned above.

6. Directions for ordering
When giving your order you should supply the following information:
- the maximum differential pressure of the steam trap Q max,
- the maximum operating temperature
- type and size of the connections

7. Additional information
- 24 months warranty compulsory acc. to the conditions which are in the manufacturer's warranty card.
- The manufacturer is able to undertake inspections and repairs of the fittings as well as replacement of the internal elements if required.
- All the requirements concerning the quality and technical specifications of the fittings should be taken into consideration in your order. With the fittings we provide specification sheets (technical and quality) as follows: standard - conformity declaration and installation, Operation and Maintenance Manual, at the client’s request - certificate 2.2 or 3.1