Local regulations may restrict the use of this product to below the conditions quoted.

In the interests of development and improvement of the product, we reserve the right to change the specification without notice. © Copyright 2015

Descripton
The UTD30 series are stainless steel thermodynamic steam traps with integral strainer having an electrodess nickel preparation finish (ELNP) which is both energy efficient and corrosion resistant. They are attached to a suitable pipeline connector by two bolts for quick and easy replacement.

UTD30L - Low capacity for mains drainage and tracing applications.

UTD30H - For higher capacity applications.

UTD30LA - Low capacity for mains drainage and tracing applications plus anti-air-binding disc.

UTD30HA - For higher capacity applications plus anti-air-binding disc.

Standards
These products fully comply with the requirements of the European Pressure Equipment Directive 97/23/EC.

Certification
These products are available with certification to EN 10204 3.1.

Note: All certification/inspection requirements must be stated at the time of order placement.

Pipeline connector options
The UTD30 can be fitted to a variety of pipeline connectors:

PC10HP Straight connector ASME 600 (TI-P128-10)

PC3 Straight connector with one piston isolation valve ASME 600 (TI-P128-02)

PC4 Straight connector with two piston isolation valves ASME 600 (TI-P128-03)

See the relevant Technical Information sheet as listed above for details of the connections available for each pipeline connector.

Pressure / temperature limits (ISO 6552)

<table>
<thead>
<tr>
<th>Temperature °C</th>
<th>Pressure bar g</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>10</td>
</tr>
<tr>
<td>100</td>
<td>50</td>
</tr>
<tr>
<td>200</td>
<td>100</td>
</tr>
<tr>
<td>300</td>
<td>150</td>
</tr>
<tr>
<td>400</td>
<td>200</td>
</tr>
</tbody>
</table>

Steam saturation curve

The product must not be used in this region.

A - C UTD30L and UTD30H
B - C UTD30LA and UTD30HA

Note: The model of pipeline connector and connection selected will dictate the maximum operating limits of the complete assembly. Reference the specific pipeline connector Technical Information sheet as detailed in 'Pipeline connector options'.

Physic design conditions

PN50

PMA Maximum allowable pressure 50 bar g @ 38°C

TMA Maximum allowable temperature 400°C @ 27.5 bar g

Minimum allowable temperature 0°C

PMO Maximum operating pressure for saturated steam service 30 bar g

TMO Maximum operating temperature UTD30L and UTD30H 400°C @ 27.5 bar g

Minimum operating temperature 0°C

Note: For lower operating temperatures consult Spirax Sarco

DPMX Maximum differential pressure 30 bar g

PMOB Maximum operating backpressure should not exceed 80% of the upstream pressure

Minimum inlet pressure for satisfactory operation 0.25 bar g

Designed for a maximum cold hydraulic test pressure of 75 bar g

Materials

<table>
<thead>
<tr>
<th>No.</th>
<th>Part Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body Stainless steel - ASTM A743 ELNP Gr. CA 40</td>
</tr>
<tr>
<td>2</td>
<td>Cap Stainless steel - ASTM A582 416</td>
</tr>
<tr>
<td>3</td>
<td>Disc UTD30L and UTD30H Stainless steel - BS 1449 420 S45 Bimetal</td>
</tr>
<tr>
<td>4</td>
<td>Disc UTD30LA and UTD30HA Stainless steel - BS 1449 420 S45</td>
</tr>
<tr>
<td>5</td>
<td>Strainer screen Stainless steel - BS 1449 304 S16</td>
</tr>
<tr>
<td>6</td>
<td>Strainer cap Stainless steel - ASTM A582 416</td>
</tr>
<tr>
<td>7</td>
<td>Strainer cap gasket Stainless steel - BS 1449 304 S16</td>
</tr>
<tr>
<td>8</td>
<td>Flange Alloy steel - ELNP ASTM A193 B7</td>
</tr>
<tr>
<td>9</td>
<td>Pipeline connector Stainless steel - ASTM A351 CF8</td>
</tr>
<tr>
<td>10</td>
<td>Connector screw Steel - ASTM A193 B7</td>
</tr>
<tr>
<td>11</td>
<td>Inner gasket Graphite/AISI 316 strip Stainless steel laminate</td>
</tr>
<tr>
<td>12</td>
<td>Outer gasket Graphite/AISI 316 strip Stainless steel laminate</td>
</tr>
<tr>
<td>13</td>
<td>Plug Stainless steel - ASTM A276.431</td>
</tr>
<tr>
<td>14</td>
<td>Insulating cover (optional) Aluminium</td>
</tr>
</tbody>
</table>

First for Steam Solutions

EXPERTISE SOLUTIONS SUSTAINABILITY
Dimensions / weights (approximate) in mm and kg

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>67</td>
<td>41</td>
<td>55</td>
<td>85</td>
<td>57</td>
<td>38</td>
<td>1.10</td>
</tr>
</tbody>
</table>

Optional extras

Insulating cover: To prevent the trap being unduly influenced by excessive heat loss such as when subjected to low outside temperatures, wind, rain etc.

Integral blowdown valve: A BDV1 or BDV2 can be fitted to the strainer cap, alternatively the strainer cap can be drilled, tapped and plugged 1/4" BSP or NPT. Having either a BDV1 or BDV2 fitted will aid the removal of debris from the inside of the strainer screen. This should be carried out periodically depending on the cleanliness of the system.

How to order The UTD30 is supplied in two parts:-

1. The swivel pipeline connector
   - PC10HP Standard connection
   - PC3 + 1 integral ISO valve
   - PC4 + 2 integral ISO valves

2. The UTD30 trap complete with inner and outer gaskets and two connector screws.
   - Available as follows: UTD30L, UTD30H, UTD30LA or UTD30HA. Items will be supplied in a protective box.

Note: Any optional extras need to be specified at the time of order placement.

How to order example:
1 off Spirax Sarco DN20 PC10HP swivel pipeline connector with socket weld connections.
1 off Spirax Sarco UTD30LA thermodynamic steam trap fitted with an anti-air-binding disc and BDV1 integral blowdown valve. The unit is supplied complete with connector screws and gaskets.
1 off Insulating cover to fit a UTD30LA.

Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P154-02) supplied with the product.

Installation note:
The pipeline connector can be installed in either horizontal or vertical pipework but the trap body must always have the cap (2) uppermost.

Disposal:
This product is recyclable. No ecological hazard is anticipated with the disposal of this product providing due care is taken.

Spare parts

The spare parts available are shown in solid outline. Parts drawn in broken line are not supplied as spares.

Available spares

- Complete trap unit assembled (state unit nomenclature), excluding pipeline connector.
- Gasket set (packet of 3) 11, 12
- Disc (packet of 3) UTD30L and UTD30H 3
- Strainer screen UTD30L and UTD30H 5
- Disc and strainer screen UTD30LA and UTD30HA 3, 5
- Strainer screen gasket 7
- Sensor assembly (state SS1 or WLS1) 8, 15
- Insulating cover 14

How to order spares

Always order spare parts by using the description given in the column headed ‘Available spares’ and state the size and type of trap.

Example: 1 off packet of 3 discs for a Spirax Sarco UTD30L thermodynamic steam trap with swivel connector.