**TDC46M, TDS46M and UTDS46M**

thermodynamic steam traps with maintainable seat

- **Insulation cap as standard**
  - Minimises heat loss

- **Automatic air vent as standard**
  - Vents air quickly during start-up and reduces warm-up time

- **Hardened and lapped seat and disc**
  - Reduced wear and longer service life

- **Replaceable seat and disc**
  - Trap can be serviced, minimising cost of ownership

- **Integral stainless steel 100 mesh strainer screen**
  - Protects internals and increases life of trap

- **No operational steam loss**
  - Low energy consumption

- **Specifically designed and tested for pressures up to 46 bar g**
  - Increased life of trap and maximises energy efficiency

- **More reliable, longer life, gaining higher energy efficiency than ever before**

<table>
<thead>
<tr>
<th>Model</th>
<th>Body material</th>
<th>Minimum allowable temperature</th>
<th>Maximum allowable temperature</th>
<th>Maximum operating pressure for steam</th>
<th>Pipeline Connections</th>
<th>Connection size</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDC46M</td>
<td>Carbon material</td>
<td>-29°C (-20.2°F)</td>
<td>425°C (800°F)</td>
<td>46 bar g (667 psi g)</td>
<td>Screwed/BSP or NPT and Socket weld</td>
<td>½” (DN15) 3/4” (DN20) 1” (DN25)</td>
<td>Blowdown valve for strainer screen</td>
</tr>
<tr>
<td>TDS46M</td>
<td>Stainless steel</td>
<td>-50°C (-58°F)</td>
<td>450°C (-842°F)</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>UTDS46M</td>
<td>Stainless steel</td>
<td>-48°C (-54°F)</td>
<td>425°C (-800°F)</td>
<td>46 bar g (667 psi g)</td>
<td>Note: The maximum operating temperature of the UTDS46M will be dictated by the pipeline connection (PC) that is chosen for your application.</td>
<td>PC10: PC10: 1/2” (DN15) 3/4” (DN20) 1” (DN25)</td>
<td>Blowdown valve for strainer screen</td>
</tr>
</tbody>
</table>
Typical applications

Condensate removal from steam mains
TDC46M or TDS46M thermodynamic steam traps are the obvious choice for steam mains drainage up to 46 bar g due to their simplicity, long life and robust construction. They remove condensate from the system as it is formed, eliminating the potential danger of waterhammer within the system.

Steam tracing
When the product temperature needs to be maintained within a narrow band to prevent solidification of the product in the pipeline or product spoilage, the TDC46M or TDS46M thermodynamic steam traps are normally used to discharge condensate as it is formed.

Turbine drainage
The TDC46M and TDS46M thermodynamic steam traps are the ideal choice for steam turbines. The traps provide efficient and rapid removal of condensate under start-up and operating conditions, preventing possible blade damage in the turbine casing or erosion of the turbine blades or corrosion of the casing.

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