THERMODYNAMIC DISC TRAP FOR HIGH PRESSURES

Features

Air-jacketed disc trap for drainage of high pressure and temperature steam mains and turbines.

1. Inline replaceable valve module for ease of maintenance and low cost of repair.
2. Lapped disc provides steam-tight seal.
3. Air jacket reduces radiant heat loss to reduce no-load cycling and so extend life.
4. Built-in screen with large surface area for extended trouble-free operation.
5. Hardened working surfaces guarantee long service life.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Connection</th>
<th>Socket Welded</th>
<th>Flanged</th>
</tr>
</thead>
<tbody>
<tr>
<td>HR150A</td>
<td></td>
<td>15, 20, 25</td>
<td>20, 25</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Maximum Operating Pressure (MPaG)</th>
<th>PMO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Operating Pressure (MPaG)</td>
<td>1.6</td>
</tr>
<tr>
<td>Maximum Operating Temperature (˚C)</td>
<td>TMO</td>
</tr>
<tr>
<td>Maximum Allowable Pressure (MPaG)</td>
<td>PMA*</td>
</tr>
<tr>
<td>Maximum Allowable Temperature (˚C)</td>
<td>TMA*</td>
</tr>
</tbody>
</table>

Maximum Back Pressure 50% of Inlet Pressure

* PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS)

** This Rating Graph is based on Allowable Stress Values of ASTM-Materials at each temperature.

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

1 MPa = 10.197 kg/cm²

ASTM/AISI 1) Equivalent 2) Option 3) Not shown 4) Shown on reverse

Replacement kits available: (M) maintenance parts, (R) repair parts

No. Description Material JIS ASTM/AISI
1 Body Alloy Steel — A182 F22 Cl.3
2,2a Cover Stainless Steel SUS420J2 AISI420
3,3a Module Valve Seat Stainless Steel SUS304L/0 AISI309S+Cb
4,4a Disc Stainless Steel SUS304L/0 AISI309S+Cb
5 Eye Nut Carbon Steel SS400 A307 Gr.B
6 Spacer Carbon Steel SS400 A6
7,7a Module Gasket Graphite/Stainless Steel -/SUS304L/0 AISI309S+Cb
8,8a Module Gasket Graphite/Stainless Steel -/SUS304L/0 AISI309S+Cb
9,9a Screen inside/outside Stainless Steel SUS304/0 AISI304/0
10 Body Bolt Alloy Steel SNB16 A193 Gr.B16
11 Cover Nut Alloy Steel SNB7 A193 Gr.B7
12 Cap Carbon Steel SPCC A109
13,3a Guide Pin Stainless Steel SUS304 AISI304
14 Hexagon Nut Carbon Steel SS400 A307 Gr.B
15 Flange — Alloy Steel — A182 F22 Cl.3

* Equivalent  ** Option  ⏫ Not shown  *** Shown on reverse
**Dimensions**

- **HR150A** Socket Welded

<table>
<thead>
<tr>
<th>Size</th>
<th>L (mm)</th>
<th>H (mm)</th>
<th>H1 (mm)</th>
<th>φD (mm)</th>
<th>φC (mm)</th>
<th>h (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>20</td>
<td>140</td>
<td>190</td>
<td>160</td>
<td>53.5</td>
<td>27.7</td>
<td>14</td>
<td>12</td>
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<td>25</td>
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</table>

- **HR150A** Flanged

<table>
<thead>
<tr>
<th>Size</th>
<th>L (mm)</th>
<th>H (mm)</th>
<th>H1 (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>320</td>
<td>320</td>
<td>320</td>
<td>18</td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td>20</td>
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Other standards available, but weight and length may vary
* Weight is for Class 1500 RF

**Discharge Capacity**

- Differential pressure is the difference between the inlet and outlet pressure of the trap.
- Recommended safety factor: at least 2.

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**Manufacturer**

ISO 9001
ISO 14001

Kakogawa, Japan

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