Alfa Laval SB Pressure Relief Valve
Minimizing the Risk of Tank Damage

Concept
The Pressure Relief Valve is used for minimizing the risk of damage to tanks due to liquid overfilling.

Working Principle
The Pressure Relief Valve is delivered with counter weight set and locked to suit customer requirements regarding opening pressure. When pressure in the tank exceeds the preset opening value, the valve relieves the excess pressure.

Standard Design
The Pressure Relief Valve is available in two versions:

- Integrated in a SCANDI BREW® tank top system
- Mounted on its own welding flange

Compliance to EN 4126-1
Compliance to EN 764-7
Compliance Pressure Equipment Directive 2014/68/EU of the European Community, Fluida Group II

The advantages of an integrated Pressure Relief Valve are lower initial costs, superior hygiene and smaller area required for the valve. The size and setting of the Pressure Relief Valve is based on the tank design data and process requirements.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Nominal size</th>
<th>Set Pressure Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>75mm</td>
<td>0.2 - 3.5 bar</td>
</tr>
<tr>
<td>100mm</td>
<td>0.2 - 2.5 bar</td>
</tr>
<tr>
<td>150mm</td>
<td>0.4 - 1.5 bar</td>
</tr>
</tbody>
</table>

PHYSICAL DATA

Materials
- Product wetted steel parts: EN 1.4404 (AISI 316L) with 3.1 cert.
- Product wetted steel surfaces: Surface roughness Ra<0.8 μm
- Product wetted seals: EPDM
Cleaning In Place (CIP)
The Pressure Relief Valve is cleaned in closed position by the tank cleaning head, but this will not include the valve seating. To include the valve seating in the cleaning cycle, there is the option to equip the valve with a pneumatic force opener and a splash guard.

Integrated Valve

Options:
- Pos. 1: Force opener: force opening during cleaning cycle
- Pos. 2: Splash guard: containing CIP liquid during valve seat cleaning
- Pos. 3: Proximity sensor: for operation detection
- Pos. 4: Welding flange: for installation

Flange Mounted Valve

Interface requirements (mm)

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>ID</th>
<th>BC</th>
<th>OD</th>
<th>Bolts</th>
<th>H1</th>
<th>H2</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>75</td>
<td>75</td>
<td>165</td>
<td>200</td>
<td>4xM16</td>
<td>375</td>
<td>30</td>
<td>740</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
<td>165</td>
<td>200</td>
<td>4xM16</td>
<td>375</td>
<td>30</td>
<td>740</td>
</tr>
<tr>
<td>150</td>
<td>150</td>
<td>230</td>
<td>270</td>
<td>8xM16</td>
<td>430</td>
<td>30</td>
<td>1050</td>
</tr>
</tbody>
</table>

ID = Active diameter
BC = Bolt circle
OD = Outside diameter
**Discharge Capacity**

In accordance with EN 4126-1

Capacity measured at:
- $\Delta P = 10\%$ Set pressure $\geq 1$ bar
- $\Delta P = 0,1$ Set pressure $< 1$ bar

Medium: water ($20^\circ$C)
Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval
Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information direct.