FEATURES

- Remote-controlled disc valve for superheated water and steam at temperatures up to 184°C
- High flow due to angled seat design
- Equipped with a piston-type operator
- Anti-waterhammer design (fluid entry under the disc)
- Wide range of operators (32, 50, 63, 90 and 125 mm) for maximum performance at different minimum pilot pressures
- Operator rotateable by 360°
- High performance, maintenance-free stuffing box
- Optical position indicator
- Proportional valves (see section: "Proportional Valves")
- The valves in conformity with IEC 61508 Standard (2010 route 2, version) certified with integrity levels: SIL 2 for HFT = 0

GENERAL

Differential pressure:
- Steam: 0 to 10 bar
- Superheated water: 0 to 16 bar

Maximum allowable pressure: 16 bar

<table>
<thead>
<tr>
<th>fluids</th>
<th>max. temperature (TS)</th>
<th>disc seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>steam, superheated water</td>
<td>+ 184°C</td>
<td>PTFE</td>
</tr>
</tbody>
</table>

2/2 CONSTRUCTION

<table>
<thead>
<tr>
<th>Body</th>
<th>Connection:</th>
<th>2/2-3/2</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bronze body</td>
<td></td>
<td>390</td>
<td>290</td>
</tr>
<tr>
<td>Stainless steel body</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Connection:
- Threaded: 1/2 to 2 1/2 (type 01)
- Clamp:
- Butt welding:
- External threads:
- External threads DIN 11851:
- Flanges (PN16):
- DN 25 to 50 (type 03)

See section: Pressure Operated Valves (2/2)

<table>
<thead>
<tr>
<th>Body</th>
<th>Connection:</th>
<th>2/2-3/2</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bronze body</td>
<td></td>
<td>390</td>
<td>290</td>
</tr>
<tr>
<td>Stainless steel body</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Connection:
- Threaded: 1/2 to 2 (type 09)

See section: Pressure Operated Valves (3/2)

<table>
<thead>
<tr>
<th>Body</th>
<th>Connection:</th>
<th>3/2</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bronze body</td>
<td></td>
<td>390</td>
<td>290</td>
</tr>
</tbody>
</table>

Connection:
- Threaded: 1/2 to 2 (type 09)
FEATURES

- Ruggedly built valve, particularly recommended for use with steam, superheated water, corrosive fluids
- High-performance, thermal shock-resistant, maintenance-free stuffing box
- Pressure can be applied to any port as needed by the process
- 2/2: Anti-waterhammer design (fluid entry at orifice 1), recommended for use with liquids
- 3/2 U: Mixer function (two pressure inlets at 1 or 3, one outlet at 2) or distributor function (one pressure inlet at 2, two outlets at 1 and 3)
- Allowable backpressure: up to 40 bar
- Optical position indicator as standard
- Autoclavable valve for use at high ambient temperatures up to 180°C
- The valves in conformity with IEC 61508 Standard (2010 route 2H version) certified with integrity levels: SIL 2 for HFT = 0

GENERAL

Differential pressure:

<table>
<thead>
<tr>
<th>Fluids</th>
<th>Temperature range</th>
<th>Disc seal (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steam</td>
<td>0 to 24 bar</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0 to 32 bar</td>
<td></td>
</tr>
<tr>
<td>Superheated water</td>
<td>0 to 21 bar</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0 to 40 bar</td>
<td></td>
</tr>
<tr>
<td>Maximum allowable pressure 40 bar</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fluids (+)</th>
<th>Temperature range</th>
<th>Disc seal (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN 15-20-25: air and gas groups 1 &amp; 2</td>
<td>-10°C to +233°C</td>
<td>PEEK</td>
</tr>
<tr>
<td>DN 32-40-50: air and gas group 2</td>
<td>-10°C to +250°C</td>
<td>metal-to-metal</td>
</tr>
<tr>
<td>all DN: water, oil, liquids groups 1 &amp; 2 and steam</td>
<td>-10°C to +180°C</td>
<td>PTFE</td>
</tr>
</tbody>
</table>

(+) Ensure that the compatibility of the fluids in contact with the materials is verified.

2/2 CONSTRUCTION

Body: Stainless steel
Connection:
Threaded: 1/2 to 2 (type 01)
Flanges: DN 15 to 50 (type 02)
(DIN and ANSI Class 300)
Socket welding: DN 15 to 50 (type 03)

See section: Pressure Operated Valves (2/2)
Threaded: Page: 53 [www.asco.com]
Flanges: Page: 57 [www.asco.com]

3/2 CONSTRUCTION

Body: Stainless steel
Connection:
Threaded: 1/2 to 2 (type 04)
Flanges: DN 15 to 50 (type 05)
(DIN and ANSI Class 300)
Socket welding: DN 15 to 50 (type 06)

See section: Pressure Operated Valves (3/2)
Threaded: Page: 3 [www.asco.com]
Flanges: Page: 7 [www.asco.com]
Socket welding: Page: 11 [www.asco.com]
VALVES
pressure operated
for steam applications
1/2 .. 2 / DN 15 .. DN 80

FEATURES
• Differential-action valve for high-pressure control at reduced pilot pressure
• Powerful spring and large diaphragm ensuring reliable operation
• Heavy-duty valve recommended for steam applications

GENERAL
Differential pressure:
Steam
Maximum allowable pressure:
[1 bar = 100 kPa]
0 to 10 bar
16 bar

<table>
<thead>
<tr>
<th>fluids</th>
<th>max. temperature (TS)</th>
<th>types</th>
</tr>
</thead>
<tbody>
<tr>
<td>steam</td>
<td>+184°C</td>
<td>01-02-04</td>
</tr>
</tbody>
</table>

2/2 CONSTRUCTION
Body
Connection:
Threaded 1/2 to 2 (type 01)
Flanges (PN16) DN 15 to 80 (type 02)

See section: Pressure Operated Valves (2/2)
Threaded Page: 77 (www.asco.com)
Flanges (PN16) Page: 79 (www.asco.com)

3/2 CONSTRUCTION
Body
Connection:
Threaded 1/2 to 2 (type 04)

See section: Pressure Operated Valves (3/2)
Threaded Page: 17 (www.asco.com)

All leaflets are available on: www.asco.com
Hot Water & Steam - 15