The valve acts as an automatic regulator of pressure drops and prevents the creation of a vacuum inside pressurised installations or vessels.

In compliance with the ATEX 2014/34/EU directive “Protective equipment and systems for use in potentially explosive atmospheres”.

Specifications

— Activated by direct action helicoid spring.
— Simplicity of construction ensuring minimum maintenance.
— Internal body designed to offer favourable flow profile.
— Soft seals giving greater tightness than that required by EN 12266-1, as long as the valve, in non operating conditions, is under equal or greater pressure than atmospheric pressure.
— Great discharge capacity.
— All the valves are supplied sealed at the set depressurising requested, simulating operational conditions, and are vigorously tested.
— All components are numbered, registered and checked. If requested in advance, material, casting, test and efficiency certificates will be enclosed with the valve.

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N. PIECE. | PIECE | MATERIAL
---|---|---
1 | Body | Brass (ASTM UNS C38000) Stainless steel (AISI 316)
2 | Spring press | Brass (ASTM UNS C38000) Stainless steel (AISI 303)
3 | Spring | Stainless steel (AISI 301) Stainless steel (AISI 301)
4 | Shaft | Stainless steel (AISI 303) Stainless steel (AISI 303)
5 | Plug | Brass (ASTM UNS C38000) Stainless steel (AISI 316)
6, 8 | Washer | Stainless steel (AISI 316) Stainless steel (AISI 316)
7 | Seal | Fluorelastomer (Vitón) (2) Fluorelastomer (Vitón) (2)
9 | Nut | Stainless steel (AISI 316) Stainless steel (AISI 316)
10 | Sealing wire | Sealing wire Sealing wire
11 | Characteristic plate | Aluminium Aluminium
12 | Seal | Plastic Plastic
13 | Deflector | Stainless steel (AISI 316) Stainless steel (AISI 316)

**Important**

1. Fluorelastomer (Vitón) seals or Silicone’s rubber, achieving leakage levels less than:

\[0.3 \times 10^{-3} \text{ Pa cm}^3 \text{ sec}^{-1}\]

as long as the valve, in non operating conditions, is under equal or greater pressure than atmospheric pressure.

Depending on demand:

1. Buna-nitryls seals, Butyl, Natural rubber, E.P.D.M., Chlorosulphonate polyethylene (Hypalon), Neoprene, ... etc.
2. The intake deflector prevents the entry of foreign bodies in the valve which will affect later operation. (Specialy designed for moving transport).
3. Possibility of manufacture in other types of material, for use in special working conditions (high temperatures, fluids,... etc.).

<table>
<thead>
<tr>
<th>OPERATING CONDITIONS</th>
<th>PRESSURE IN bar</th>
<th>MAXIMUM TEMP. IN °C (1)</th>
<th>MINIMUM TEMP. IN °C (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classe</td>
<td>150 lbs</td>
<td>150 lbs</td>
<td></td>
</tr>
<tr>
<td>PRESSURE IN bar</td>
<td>16</td>
<td>12</td>
<td>16</td>
</tr>
<tr>
<td>MAXIMUM TEMP. IN °C (1)</td>
<td>120</td>
<td>150</td>
<td>120</td>
</tr>
<tr>
<td>MINIMUM TEMP. IN °C</td>
<td>-50</td>
<td>-50</td>
<td></td>
</tr>
</tbody>
</table>

(1) For temperatures upper 150°C special seal. For temperatures upper 300°C special seal and spring.
(2) Recommended temperature field -30°C to +150°C. Maximum pressure of service 12 bar.
(3) Recommended temperature field -50°C to +115°C. Maximum pressure of service 9 bar.