Specifications
- 90° angular flow.
- Activated by direct action helicoid spring.
- Simplicity of construction ensuring minimum maintenance.
- Materials carefully selected for their resistance to corrosion. With the exception of washers and couplings, the valves are free of non-ferric materials.
- Internal body designed to offer favourable flow profile.
- Sealing surfaces treated and balanced, making them extremely tightness, even exceeding EN 12266-1.
- Great discharge capacity. For liquids typically used with openings similar to proportional safety valves.
- Equipped with draining screws for removing condensation.
- Auto-centering plug.
- Threaded shaft with lever positioner facilitating immediate manual action.
- Elevator, independent of the seal, designed facilitate sudden opening when the steam expands and, with any fluid, guarantees absolute opening and closing precision.
- All the valves are supplied sealed at the set pressure 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, and the instruction manual, in accordance with P.E.D.97/23 EC.

FULL LIFT SAFETY VALVE WITH SPRING LOADING (AIT)

Model 495

The valve works as an automatic pressure releasing regulator activated by the static pressure existing at the entrance to the valve and is characterized by its ability to open instantly and totally.

Design in accordance with “International Standard ISO 4126-1:2004 Safety Valves”.

In accordance with the requirements of directive 97/23/EC.

EC valve verification certified by: TÜV Internacional Grupo TÜV Rheinland, S.L. EC 0035.

Type (Module D) EC examination report nº 33530455 certified by: TÜV Internacional Grupo TÜV Rheinland, S.L.

In compliance with the ATEX 94/9/CE directive “Protective equipment and systems for use in potentially explosive atmospheres”.

Other authorisations: ISCIR, ITI, NASTHOL, etc.

RANGE OF APPLICATION FOR THE SEALS

<table>
<thead>
<tr>
<th>SEALS</th>
<th>SET PRESSURE IN bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2</td>
<td>1</td>
</tr>
<tr>
<td>S</td>
<td>V</td>
</tr>
<tr>
<td>T</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SEALS</th>
<th>TEMPERATURE IN °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>V</td>
</tr>
<tr>
<td>T</td>
<td></td>
</tr>
</tbody>
</table>

1. Blocking screw which facilitates hydrostatic testing of the container which to be protected.
2. Rapid limiter to reduce the coefficient of discharge.
3. Fluorelastomer (Vitón) seals, Silicone’s rubber, PTFE (Teflón)... etc., achieving leakage levels less than $0.3 \times 10^{-3} \text{ Pa cm}^2 \text{ sec}^{-1}$.

The ranges of application allow certain flexibility although we recommend limiting them to:

<table>
<thead>
<tr>
<th>FLUID</th>
<th>SET PRESSURE IN bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturated steam</td>
<td>0.2</td>
</tr>
<tr>
<td>V</td>
<td>0.5</td>
</tr>
<tr>
<td>T</td>
<td>2</td>
</tr>
</tbody>
</table>

Fluorelastomer (Vitón) membrane and O-ring isolating the rotating or sliding parts from the working fluid.

5. Electrical contact indicating open/closed.

6. Balance bellows to:
- Protect the spring from atmospheric influences.
- Ensure outside of valve body is totally tightness.
- Level out external or self-generated back pressure.

7. Possibility of manufacture in other types of material, for special operating conditions (high temperatures, fluids, etc.).

8. Totally free of oil and grease, to work with oxygen, avoiding possible fire risks (UV-Oxygen-VBG 62).

9. Special springs for critical temperatures.
### Discharge Capacity

- **Set pressures and regulating ranges.**

| (1) R.3/4" x 1 1/4" in stainless steel (EN-1.4408). |
| (2) Maximum temperature EP, ES and CP 250°C / AP 400°C. |

** Important information:**

- **Fluorelastomer (Vitón)**
- **Copper**
- **Silicone's rubber**
- **PTFE (Teflón)**
- **Stainless steel (EN-1.4301)**
- **Sealing wire**
- **Plastic**
- **Graphite**
- **Carbon steel (EN-1.1191)**
- **Stainless steel (EN-1.4028)**
- **Spring steel (EN-10270-1-SH) (2)**
- **Carbon steel (EN-1.1191)**
- **Stainless steel (EN-1.4305)**
- **Carbon steel (EN-1.1141)**

**Recommended ranges of application.**

- Open and closed pressures in % of set pressure.
- Set pressures and regulating ranges.
- Coefficient of discharge.
- Discharge capacity.

See brochure Model 496.

**Model 496: R.3/4" x 1 1/4" = Model 496 DN - 30x2, do = 16.**

Model 495 R. 1" x 1 1/2" = Model 496 DN - 25x4, do = 20.