**Description of function:**

The temperature valve TAVZ is a release valve, which, on the bursting of a thermo bulb or control of the electric releasing (TAVZ 2.2, TAVZ 2.3) or the pneumatic releasing (TAVZ 2.4, TAVZ 2.5) taps a CO₂-bottle, allows the CO₂ to flow to the outlet CA and the outlet CZ will be ventilated by an integrated quick release valve. The thermo bulb bursts at the specified rated temperature of -3°C/+8°C. In the non-release position the outlets CA and CZ are ventilated by the integrated quick release valves. If there is pressure on the input VA or VZ (by ventilation- or alarmbox), the input will be connect to the outlet CA or CZ.

**Releasing:**

1) Thermal releasing via bursting of the thermo bulb (all versions)
2) Electric releasing via the electromagnet (TAVZ 2.2, TAVZ 2.3)
3) Pneumatic releasing: Applying the minimum release pressure on PA, (TAVZ 2.4, TAVZ 2.5) / no VdS-certificate

**Mounting:**

1) Fully unscrew knurled nut.
2) Insert the thermo bulb so that the tip points in the direction of the tension screw (if a thermo bulb is insert, loosen the bulb through the tension screw and afterwards replace it).
3) Tighten knurled nut while at the end of the clamping travel (noticeable resistance) the knurled nut has to be turned in approximately 1/2 a turn in addition.
4) Fully tighten knurled nut.
5) Check if the piercing needle is positioned behind the piercing surface of the bottle-screw-in thread.
6) Lightly grease the O-ring in the bottle-screw-in thread.
7) Check if the reset button is in the correct position.
8) Screw in CO₂-bottle.
9) After releasing, repeat process.

**Caution:**

- After thermo valve release, it is absolutely necessary, to unscrew the knurled nut first and CO₂ bottle after.
- Check the compatibility of the thermo bulb and CO₂ bottle.
- Dirt is built up by common use of the thermo valve. Therefore it must be cleaned free of deposits (dirt, fragments, etc.) in the thermo bulb holder and in the bottle thread.

**Technical data:**

- max. static housing pressure: 80 bar
- max. dynamic operating pressure: 80 bar
- nominal width of valve: 2 mm
- nominal width of piercing needle: 2 mm
- ambient temperature range: -25°C - +110°C
- rated voltage: 24 V (+30% bis -20%) (electric releasing)
- current drain at rated voltage: 0.29 A (electric releasing)
- releasing pressure min. 6 bar (pneumatic releasing)
- VdS approval no. (only by TAVZ 2.2/2.3) G 597018

**Scope of supply:**

- Screw connections, thermo bulb and CO₂-bottle are NOT included in the scope of supply.

**Types:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Bottle screw-in threads A</th>
<th>Quick release valve</th>
<th>Remote control</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAVZ 2.2</td>
<td>1/2&quot; UNF (standard)</td>
<td>no</td>
<td>electric</td>
</tr>
<tr>
<td>TAVZ 2.2-M18x1.5</td>
<td>no (adapter)</td>
<td>no</td>
<td>electric</td>
</tr>
<tr>
<td>TAVZ 2.3</td>
<td>1/2&quot; UNF (standard)</td>
<td>yes</td>
<td>no VdS-certificate</td>
</tr>
<tr>
<td>TAVZ 2.3-M18x1.5</td>
<td>yes (adapter)</td>
<td>yes</td>
<td>no VdS-certificate</td>
</tr>
<tr>
<td>TAVZ 2.4</td>
<td>1/2&quot; UNF (standard)</td>
<td>yes</td>
<td>no VdS-certificate</td>
</tr>
<tr>
<td>TAVZ 2.4-M18x1.5</td>
<td>no (adapter)</td>
<td>no</td>
<td>no VdS-certificate</td>
</tr>
<tr>
<td>TAVZ 2.5</td>
<td>1/2&quot; UNF (standard)</td>
<td>yes</td>
<td>no VdS-certificate</td>
</tr>
<tr>
<td>TAVZ 2.5-M18x1.5</td>
<td>no (adapter)</td>
<td>no</td>
<td>no VdS-certificate</td>
</tr>
</tbody>
</table>

**Commissioning:**

1) Fully unscrew knurled nut.
2) Insert the thermo bulb so that the tip points in the direction of the tension screw (if a thermo bulb is inserted, loosen the bulb through the tension screw and afterwards replace it).
3) Tighten knurled nut while at the end of the clamping travel (noticeable resistance) the knurled nut has to be turned in approximately 1/2 a turn in addition.
4) Fully tighten knurled nut.
5) Check if the piercing needle is positioned behind the piercing surface of the bottle-screw-in thread.
6) Lightly grease the O-ring in the bottle-screw-in thread.
7) Check if the reset button is in the correct position.
8) Screw in CO₂-bottle.
9) After releasing, repeat process.

**Data sheet:**

- Thermal release valve (double pipe)
- TAVZ 2, TAVZ 2.2, TAVZ 2.3, TAVZ 2.4, TAVZ 2.5

**Symbol**

- TAVZ 2
- 04.015.DAT 01.04.E

**Notation:**

- E - Nr.
- 1/1