**Description of function:**
The temperature valve TAVE is a release valve, which, on the bursting of a thermo bulb, taps a CO₂-bottle and allows the CO₂ to flow to the outlet C.

In the non-release position there is a connection between the input VA and the outlet CA e.g. to enable unhindered ventilation operation.

**Releasing:**
1) Thermal releasing via bursting of the thermo bulb
2) Option: Pneumatic releasing via pneumatic drive piston PTK 1.01 (must be specified with order)
3) Option: Electric releasing via electric drive piston ETK 1.0 (must be specified with order)

**Mounting:**
1) Join connections as follows:
   - CA: ..........cylinder OPEN
   - VA: ..........vent line or CO₂ line OPEN
   - PTK: .........join PTK connection with external releasing device (option)
   - ETK: .........join electric connection with external releasing device (option)
2) When using a CO₂ one-way bottle the TAVE must be installed as drawn adhering to the inflow direction (bottle screwed in from the top).
3) For our G1/2" connection threads we recommend to use screw connections with taper thread and to seal these in position using a liquid sealant (e.g. Loctite 243). It must be ensured that the liquid sealant is applied to the external thread.
4) We recommend using CO₂ one-way bottles according to drawing No. 03.023.00.* and point out that the VdS-recognition is valid only with these bottles.

**Commissioning:**
1) Fully unscrew knurled nut.
2) If Option "Pneumatic/electric drive piston" is available, check if PTK/ETK tappet is fully retracted via spring resetting (PTK/ETK-connection must be pressureless/de-energized).
3) Insert thermo bulb so that the tip points in the direction of the tension screw.
4) Fully tighten knurled nut.
5) Fully tighten knurled nut.
6) Check if the piercing needle is positioned behind the piercing surface of the bottle screw-in thread.
7) Lightly grease the O-ring in the bottle screw-in thread.
8) Check if the reset button is in the correct position.
9) Screw in CO₂-bottle.
10) 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: -3°C -- +8°C
- Releasing pressure PTK (Option): 10 bar
- VdS approval no.: G 597018

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

---

**Diagram without PTK 1.01:**

**Diagram with PTK 1.01:**

---

**Diagram with PTK 1.01:**

---

**Diagram with PTK 1.01:**

---

**Diagram with PTK 1.01:**

---

**Diagram with PTK 1.01:**

---

**Diagram with PTK 1.01:**

---

**Diagram with PTK 1.01:**

---

**Diagram with PTK 1.01:**

---

**Diagram with PTK 1.01:**