**Description of function:**
The temperature valve TAVZ is a releasing valve, which, on the bursting of a thermo bulb, taps a CO2-bottle, allows the CO2 to flow to outlet CA and vents the outlet CZ. The thermo bulb bursts at the specified rated temperature with a tolerance of -3°C / +8°C.

In the non-release position there is a connection between the inputs VA resp. VZ and the outlets CA resp. CZ 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
   - CZ .......... cylinder CLOSE
   - VZ ....... vent line or CO2 line CLOSE
   - 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 TAVZ must be installed as drawn adhering to the inflow direction (bottle screwed in from the top).

3) For our G1/8” 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) 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.
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 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: -20°C - +110°C
- releasing pressure PTK (Option): 10 bar
- VdS approval no.: 597018

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

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**Diagram without PTK 1.01:**

**Diagram with PTK 1.01:**

**Types:**
- PTK 2
- ETK 1.0

**Option:**
- PTK 1.0 (standard)
- PTK 1.0 (adapter)
- ETK 1.0 (standard)
- ETK 1.0 (adapter)

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**Type: CO2-bottle**

**Diagram:**

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**Diagram:**

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**Diagram:**

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