**Description of function:**

The temperature valve TAVE 2.1 is a release valve, which, on the bursting of a thermost bulb, taps a CO2-bottle and allows the CO2 to flow to the outlet CA. The thermost bulb bursts at the specified rated temperature with a tolerance of -3°C/+8°C.

In the non-release position the outlet CA is ventilated by the integrated quick release valve. If there is pressure on the input VA (by ventilation- or alarmbox), the input will be connected to the output CA.

**Releasing:**

1. Thermal releasing via bursting of the thermost 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 PTA 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 shown adhering to the inflow direction (bottle screwed in from the top)
3) For our 1/8" 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)
4) It must be ensured that the liquid sealant is applied to the external thread.

**Commissioning:**

1) Fully unscrew knurled nut.
2) If Option "Pneumatic/electric drive piston" is available, check if PTK/ETK piston is fully retracted via spring resetting (PTK/ETK-connection must be pressureless/de-energized)
3) Insert thermost bulb so that the tip points in the direction of the tension screw.
4) If the thermost bulb is positioned right behind the piercing surface of the bottle screw-in thread.
5) Check if the reset button is in the correct position.
6) Screw in CO2-bottle.
7) After releasing, repeat process.

**Caution:**

- After thermost valve release, it is absolutely necessary, to unscrew the knurled nut first and CO2 bottle after.
- Dirt is built up by common use of the thermost valve. Therefore it must be cleaned free of deposits (dirt, fragments, etc.) in the thermost 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
- Releasing pressure PTK (Option): 10 bar
- VdS approval no.: 069071B

**Scope of supply:**

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