Description of function:
The temperature valve TAVE is a releasing valve, which, on the bursting of a thermo bulb or control of the electric releasing (TAVE 2.2, TAVE 2.3) or the pneumatic releasing (TAVE 2.4, TAVE 2.5) taps a CO2-bottle and allows the CO2 to flow to the outlet CA. The thermo 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 connect to the output CA.

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

Mounting:
1) Join connections as follows:
   - CA ... cylinder OPEN
   - VA ... vent line or CO2 line OPEN
2) When using a CO2 one-way bottle the TAVE must be installed as drawn adhering to the inflow direction (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). 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) Insert 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: 2mm
- nominal width of piercing needle: 2mm
- ambient temperature range: -25°C - +110°C
- rated voltage 24V (+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 TAVE 2.2/2.3) G 597018

Types:
- Only use certified CO2-bottles!

Circuit diagrams:

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

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- max. static housing pressure: 80 bar
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