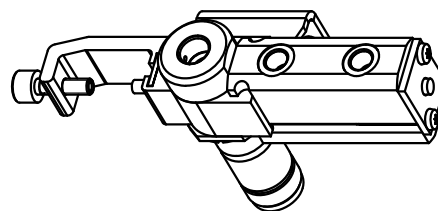
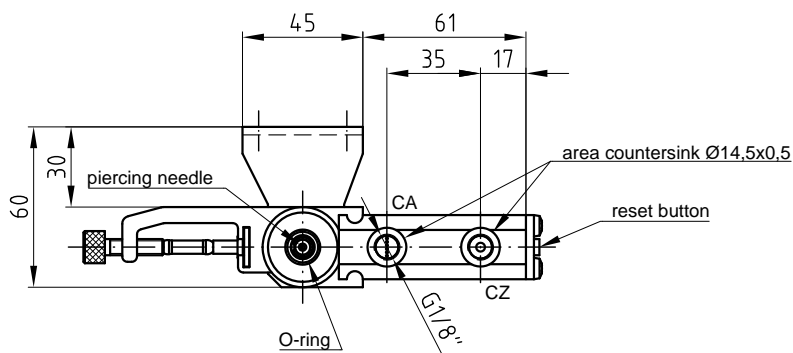
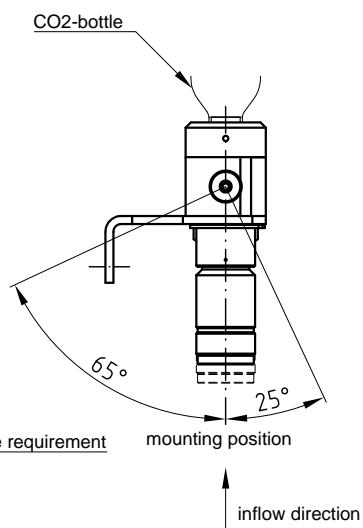
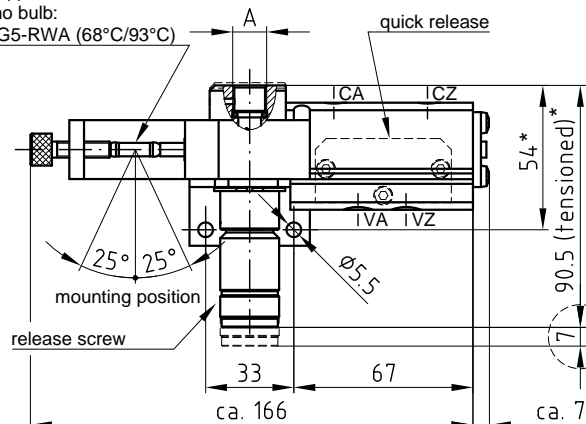


VdS-approved  
thermo bulb:  
JOB G5-RWA (68°C/93°C)



## Description of function:

The temperature valve TAVZ 3 is a release valve, which, on the bursting of a thermo bulb, taps a CO2 bottle, allows the CO2 to flow to the outlet CA and the outlet CZ will be ventilated by a integrated quick release valve. 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 and VZ and the outlets CA and CZ e.g. to enable unhindered ventilation operation.

## Option quick release:

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:

Thermal releasing via bursting of the thermo bulb

## 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

2) When using a CO2 one-way bottle the TAVZ 3 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 release screw.

2) Insert thermo bulb so that the tip points in the direction of the tension screw.

3) Tighten tension screw while at the end of the clamping travel (noticeable resistance) the tension screw has to be turned in approximately 1/2 a turn in addition.

4) Fully tighten release screw.

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) Screw in CO2-bottle.

8) After releasing remove empty CO2 bottle (Caution: Residual pressure may be present) and repeat the process.

## Technical data:

Max. statischer Gehäusedruck	80bar
Max. dynamischer Betriebsdruck	80bar
Nennweite des Ventils	2mm
Nennweite der Anstechnadel	2mm
Einsetzbar im Temperaturbereich	-25°C - +110°C
VdS Anerkennungsnummer	G511004

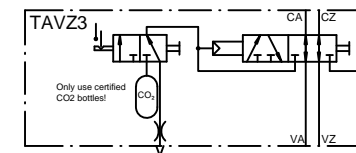
## Scope of supply:

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

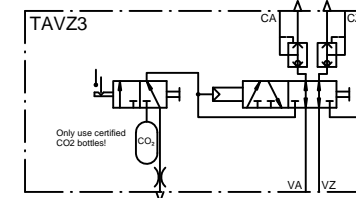
## Types:

Type	quick release	Bottle srew-in thread A
TAVZ 3.01	no	1/2" UNF (standard)
TAVZ 3.01-M	no	M18x1,5 (no VdS-approval)
TAVZ 3.01-F	no	W21,8x1/14"
TAVZ 3.11	yes	1/2" UNF (standard)
TAVZ 3.11-M	yes	M18x1,5 (no VdS-approval)
TAVZ 3.11-F	yes	W21,8x1/14"

## Diagramm without quick release:



## Diagramm with quick release:



\* ... 55 resp. 91,5 at type TAVZ 3.x1-F

Tolerance	Scale	1:2	Material	
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Grasl				Document Number 04.021.DAT.04.03-E
Pneumatic Mechanik GmbH	QM FO 05.24.0			