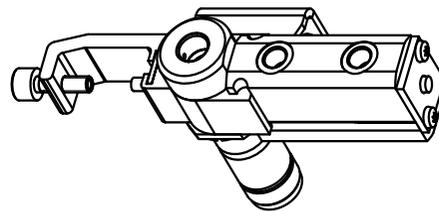
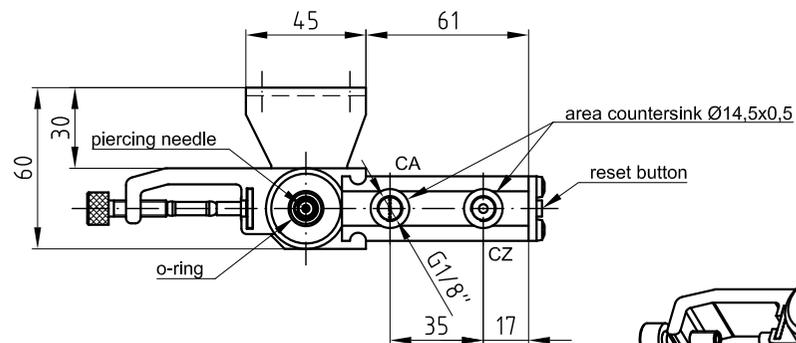
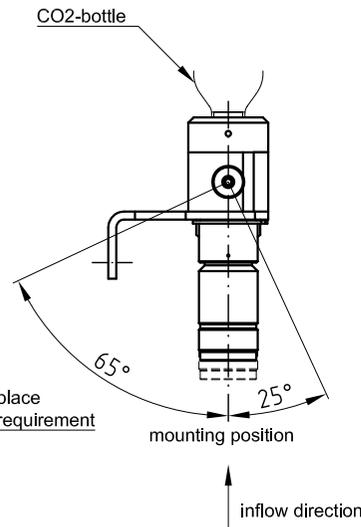
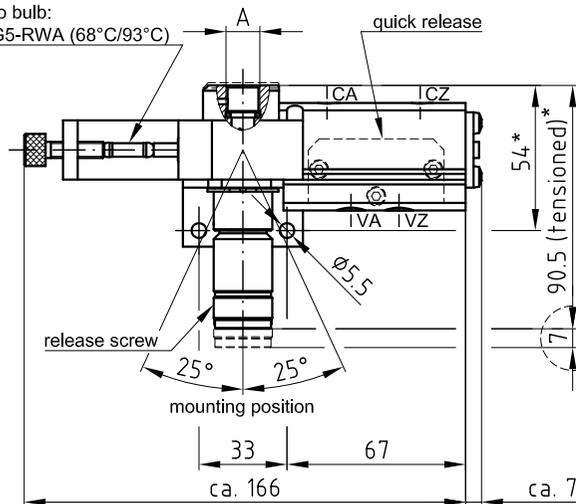


VdS-approved thermo bulb: JOB G5-RWA (68°C/93°C)



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 an 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) Unscrew release screw up to the limit.
- 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. static housing pressure	80bar
max. dynamic operating pressure	80bar
nominal width of valve	2mm
nominal width of piercing needle	2mm
ambient temperature range	-25°C - +110°C
VdS approval no.	G511004

Diagramm without quick release:

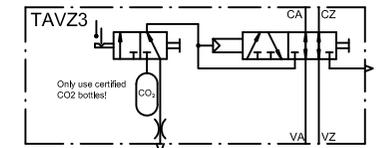
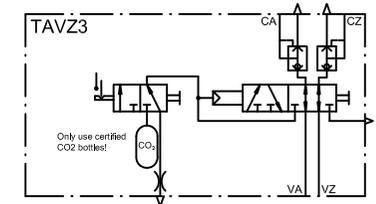


Diagramm with quick release:



Scope of supply:

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

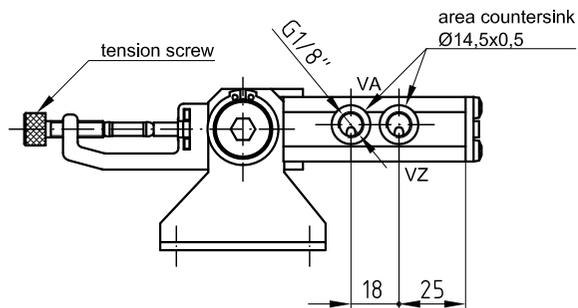
Types:

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"

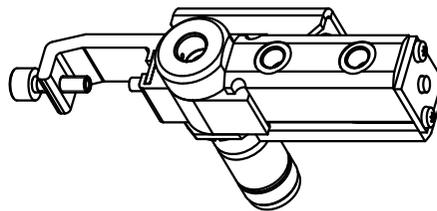
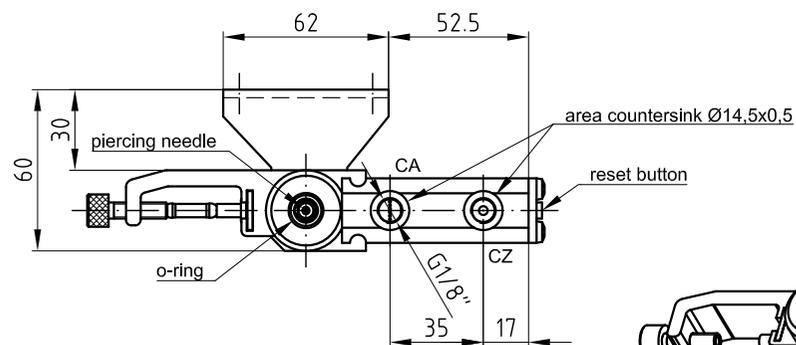
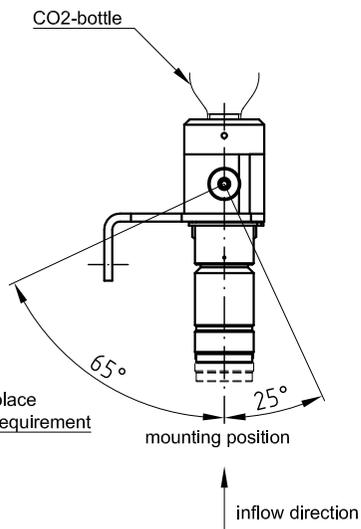
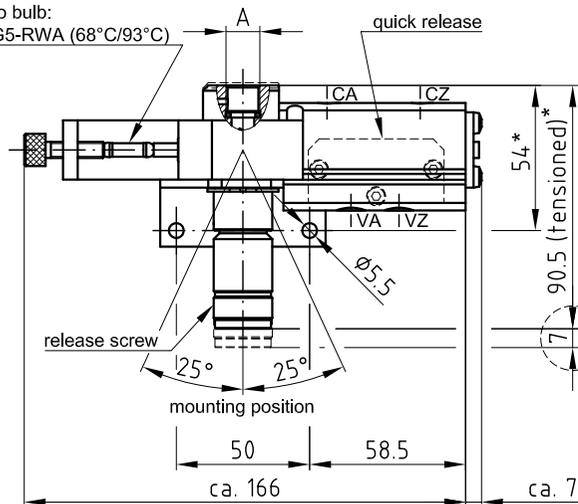
Tolerance Scale 1:2 Material

Created Simetzberger	Sheet 1/2	Format A3	Title Thermal release valve TAVZ 3.x1	Document Style Data sheet
Approved HA	Issue Date 23.07.2020			Document State Valid
Grasl Pneumatic Mechanik GmbH		QM FO 05.24.0		Document Number 04.021.DAT.04.04-E

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



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



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

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 an 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) Unscrew release screw up to the limit.
- 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. static housing pressure	80bar
max. dynamic operating pressure	80bar
nominal width of valve	2mm
nominal width of piercing needle	2mm
ambient temperature range	-25°C - +110°C
VdS approval no.	G511004

Diagramm without quick release:

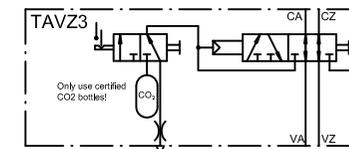
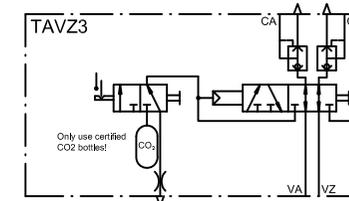


Diagramm with quick release:



Scope of supply:

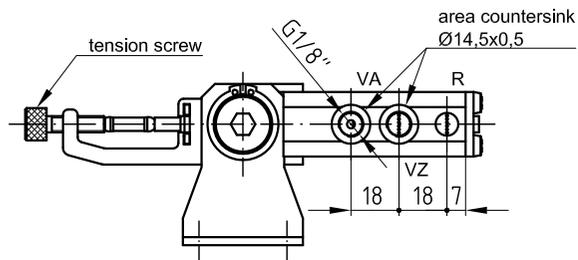
Screw connections, thermo bulb and CO2-bottle are NOT included in the scope of supply.

Types:

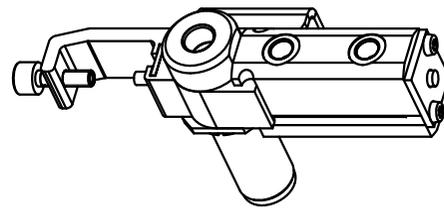
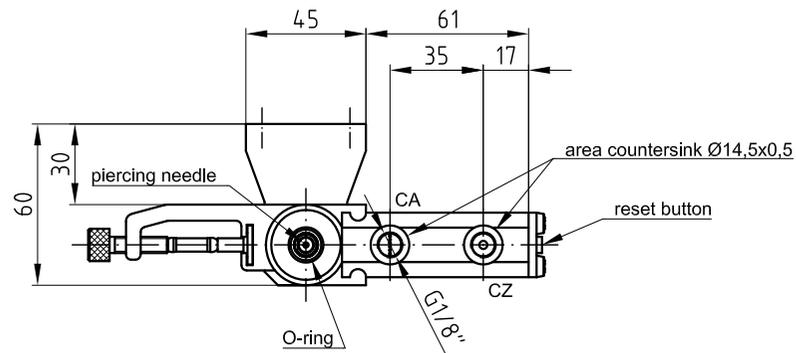
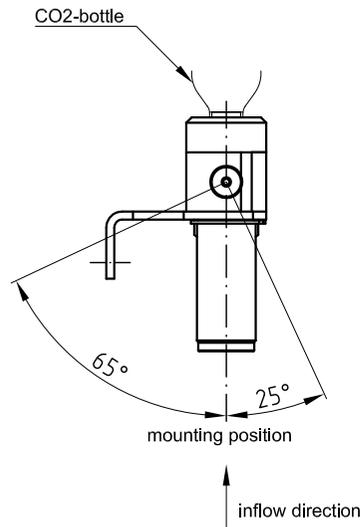
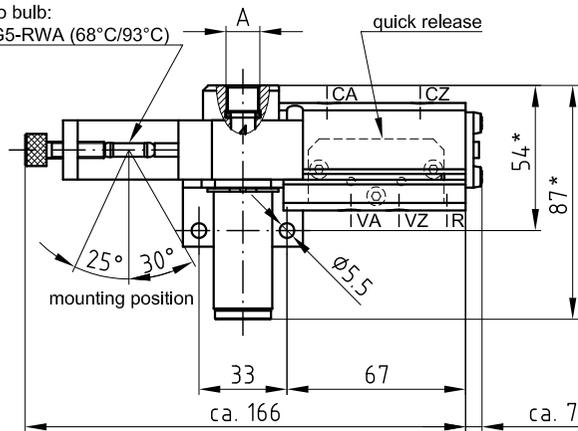
Type	quick release	Bottle srew-in thread A
TAVZ 3.01	no	1/2" UNF (standard)
TAVZ 3.01-M	no	M18x1,5 (no VdS-approval)
TAVZ 3.01-F	no	W21,8x1/14"
TAVZ 3.11	yes	1/2" UNF (standard)
TAVZ 3.11-M	yes	M18x1,5 (no VdS-approval)
TAVZ 3.11-F	yes	W21,8x1/14"

Tolerance Scale 1:2 Material

Created Simetzberger	Sheet 1/2	Format A3	Title Thermal release valve TAVZ 3.x1-MK50 mounting bracket hole spacing 50mm	Document Style Data sheet
Approved HA	Issue Date 23.07.2020			Document State Valid
Grasl Pneumatic Mechanik GmbH		QM FO 05.24.0		Document Number 04.021.DAT.10.02-E



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 an 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) Screw clamping tool in bottle screw-in thread.
- 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) Remove clamping tool.
- 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. static housing pressure	80bar
max. dynamic operating pressure	80bar
nominal width of valve	2mm
nominal width of piercing needle	2mm
ambient temperature range	-25°C - +110°C
VdS approval no.	G511004

Diagramm without quick release:

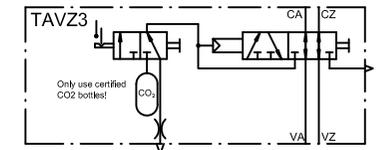
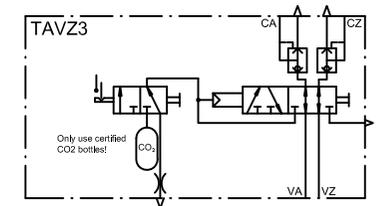


Diagramm with quick release:



Scope of supply:

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

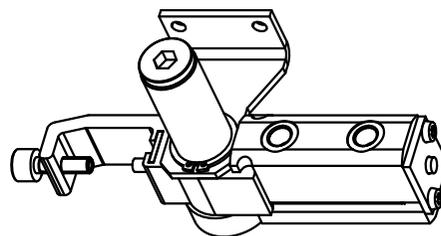
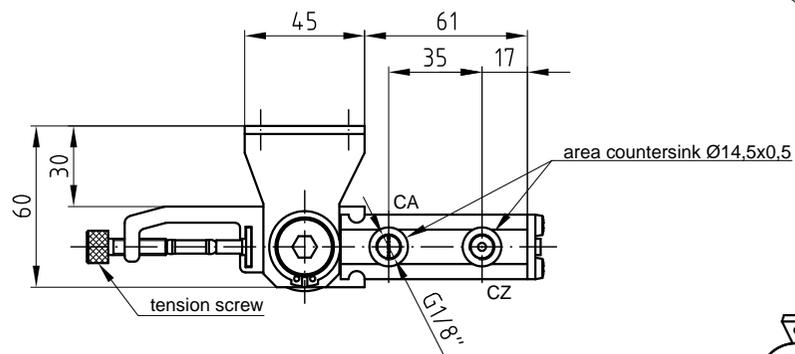
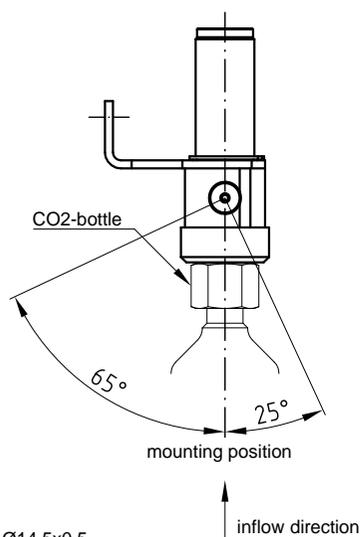
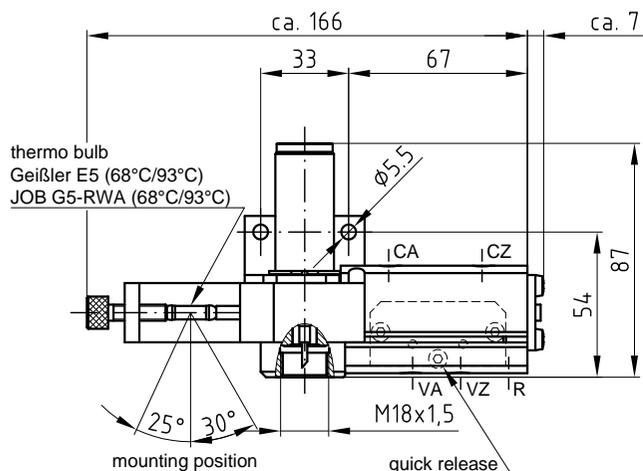
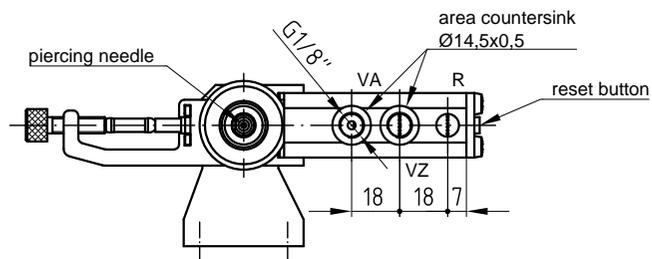
Types:

Type	quick release	Bottle screw-in thread A
TAVZ 3.02	no	1/2" UNF (standard)
TAVZ 3.02-M	no	M18x1,5 (no VdS-approval)
TAVZ 3.02-F	no	W21,8x1/14"
TAVZ 3.12	yes	1/2" UNF (standard)
TAVZ 3.12-M	yes	M18x1,5 (no VdS-approval)
TAVZ 3.12-F	yes	W21,8x1/14"

Tolerance Scale 1:2 Material

Created Simetzberger	Sheet 1/2	Format A3	Title Thermal release valve TAVZ 3.x2	Document Style Data sheet
Approved HA	Issue Date 23.07.2020			Document State Valid
Grasl Pneumatic Mechanik GmbH		QM FO 05.24.0		Document Number 04.021.DAT.05.02-E

* ... 55 resp. 88 at type TAVZ 3.x2-F



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 an integrated quick release valve. The thermo bulb bursts at the specified rated temperature with a tolerance of $-3^{\circ}\text{C}/+8^{\circ}\text{C}$.

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 connect to the outlet CA or CZ.

Releasing:

Thermal releasing via bursting of the thermo bulb

Mounting:

- Join connections as follows:
 - CA cylinder OPEN VA ... vent line or CO2 line OPEN
 - CZ cylinder CLOSE VZ ... vent line or CO2 line CLOSE
- When using a CO2 ascending-tube bottle the TAVZ 3 must be installed as drawn adhering to the inflow direction (bottle screwed in from the bottom).
- 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.

Commissioning:

- Screw clamping tool in bottle screw-in thread.
- Insert thermo bulb so that the tip points in the direction of the tension screw.
- 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.
- Remove clamping tool.
- Check if the piercing needle is positioned behind the piercing surface of the bottle screw-in thread.
- Screw in CO2-bottle.
- After releasing remove empty CO2 bottle (Caution: Residual pressure may be present) and repeat the process.

Technical data:

max. static housing pressure	80bar
max. dynamic operating pressure	80bar
nominal width of valve	2mm
nominal width of piercing needle	2mm
ambient temperature range	$-25^{\circ}\text{C} - +110^{\circ}\text{C}$
VdS approval no.	G511004

Scope of supply:

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

Types:

Type	quick release
TAVZ 3.01	no
TAVZ 3.11	yes

Diagramm without quick release:

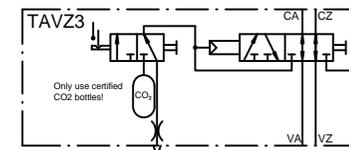
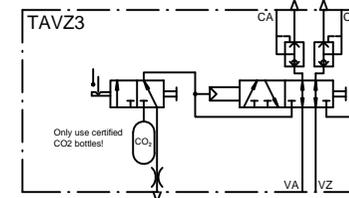


Diagramm with quick release:



Tolerance Scale 1:2 Material

Created Simetzberger	Sheet 1/2	Format A3	Title Thermal release valve TAVZ 3.x2-SR Ascending-tube	Document Style Data sheet
Approved KW	Issue Date 19.09.2012			Document State Valid
Grasl Pneumatic Mechanik GmbH				Document Number 04.021.DAT.08.01-E