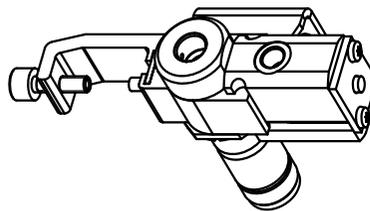
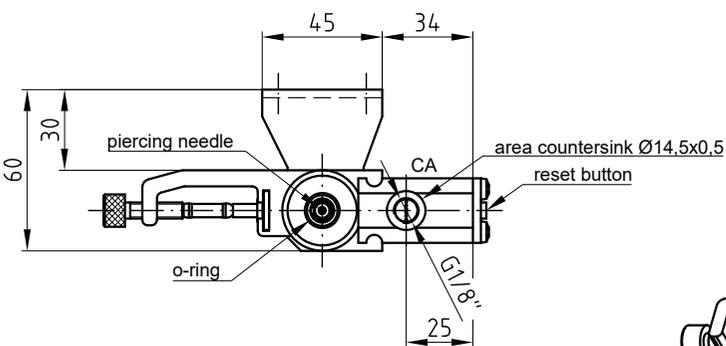
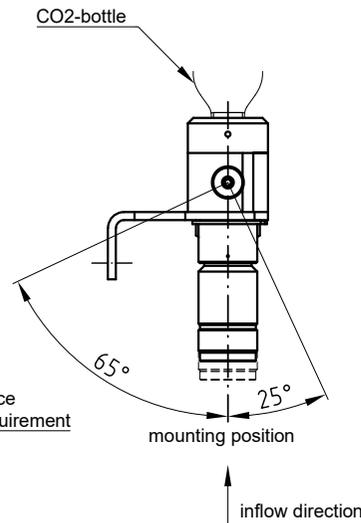
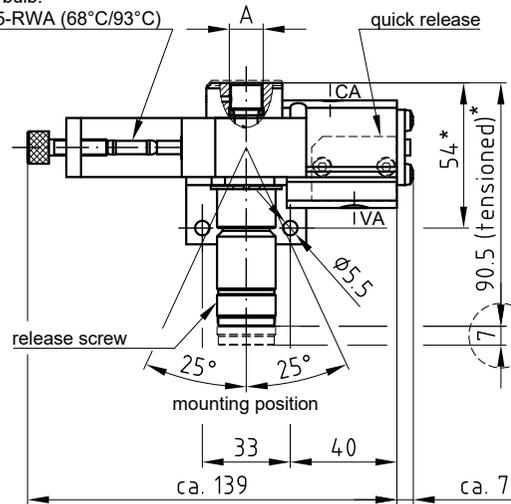


VdS-approved thermo bulb:
JOB G5-RWA (68°C/93°C)



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

Description of function:

The temperature valve TAVE 3 is a release valve, which, on the bursting of a thermo bulb, 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 there is a connection between the input VA and the outlet CA e.g. to enable unhindered ventilation operation.

Option quick release:

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:

Thermal releasing via bursting of the thermo bulb

Mounting:

1) Join connections as follows:

- CAcylinder OPEN
- VA vent line or CO₂ line OPEN

2) When using a CO₂ one-way bottle the TAVE 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:

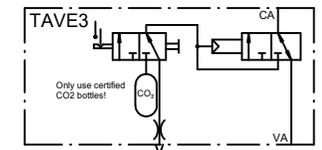
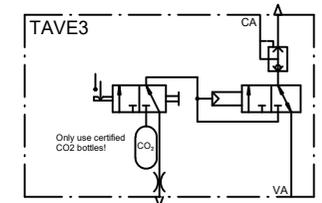


Diagramm with quick release:



Scope of supply:

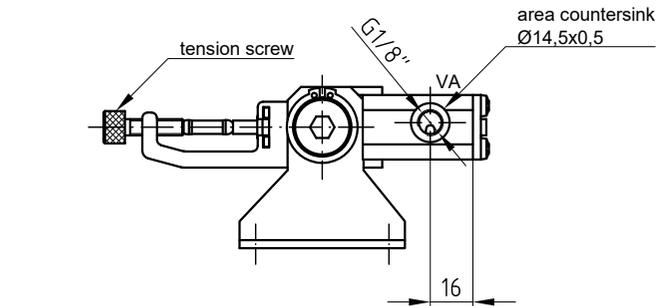
Screw connections, thermo bulb and CO₂-bottle are NOT included in the scope of supply.

Types:

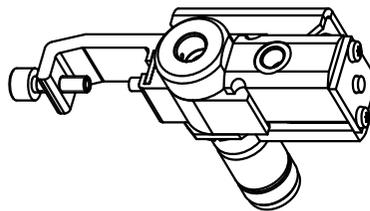
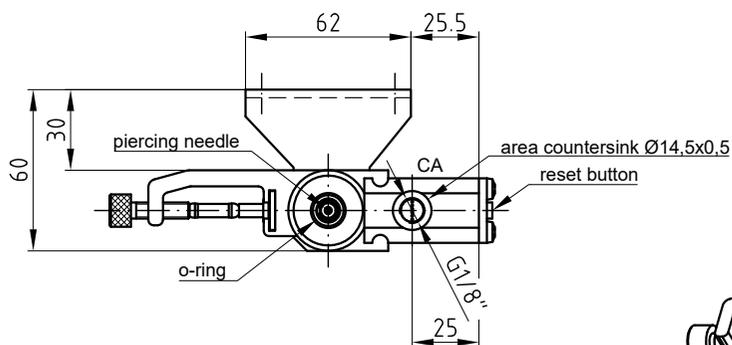
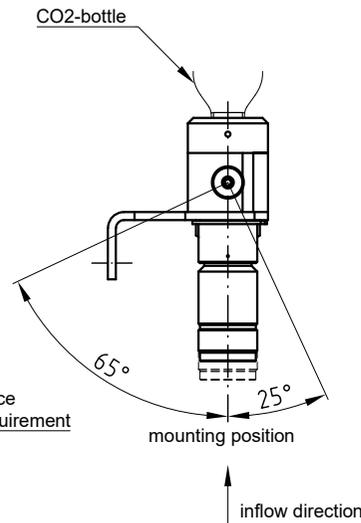
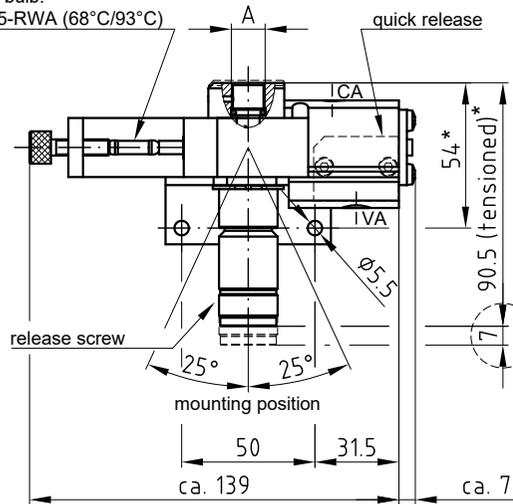
Type	quick release	Bottle screw-in thread A
TAVE 3.01	no	1/2" UNF (standard)
TAVE 3.01-M	no	M18x1,5 (no VdS-approval)
TAVE 3.01-F	no	W21,8x1/14"
TAVE 3.11	yes	1/2" UNF (standard)
TAVE 3.11-M	yes	M18x1,5 (no VdS-approval)
TAVE 3.11-F	yes	W21,8x1/14"

Tolerance Scale 1:2 Material

Created Simetzberger	Sheet 1/2	Format A3	Title Thermal release valve TAVE 3.x1	Document Style Data sheet
Approved HA	Issue Date 09.03.2020			Document State Valid
Grasl Pneumatic Mechanik GmbH		QM FO 05.24.0		Document Number 04.021.DAT.02.04-E



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



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

Description of function:

The temperature valve TAVE 3 is a release valve, which, on the bursting of a thermo bulb, 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 there is a connection between the input VA and the outlet CA e.g. to enable unhindered ventilation operation.

Option quick release:

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:

Thermal releasing via bursting of the thermo bulb

Mounting:

1) Join connections as follows:

- CAcylinder OPEN
- VA vent line or CO₂ line OPEN

2) When using a CO₂ one-way bottle the TAVE 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:

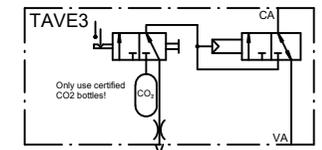
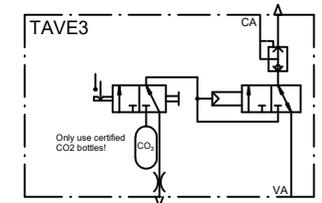


Diagramm with quick release:



Scope of supply:

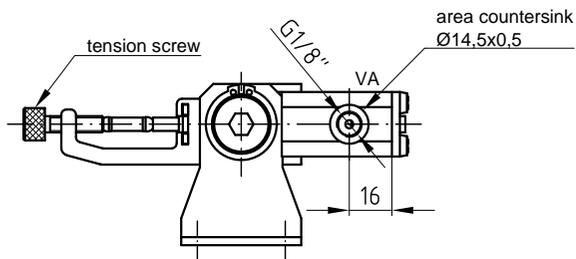
Screw connections, thermo bulb and CO₂-bottle are NOT included in the scope of supply.

Types:

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

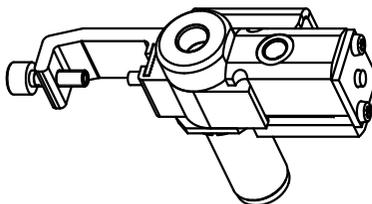
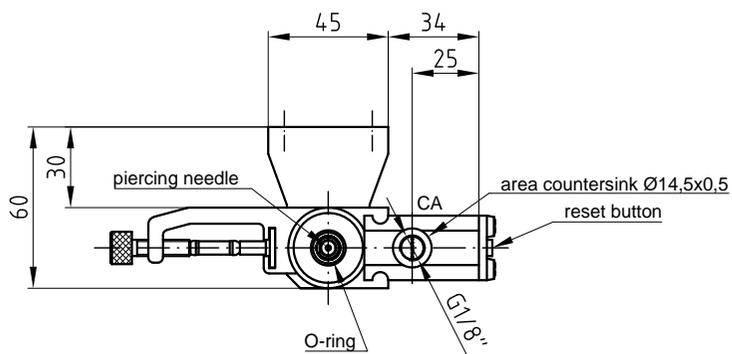
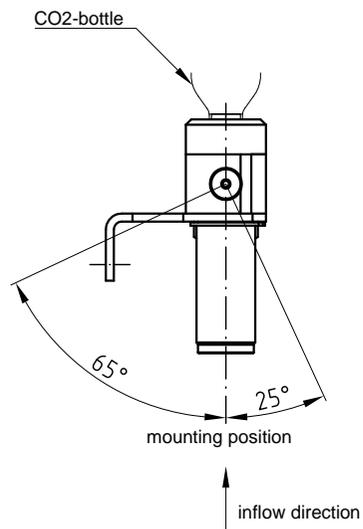
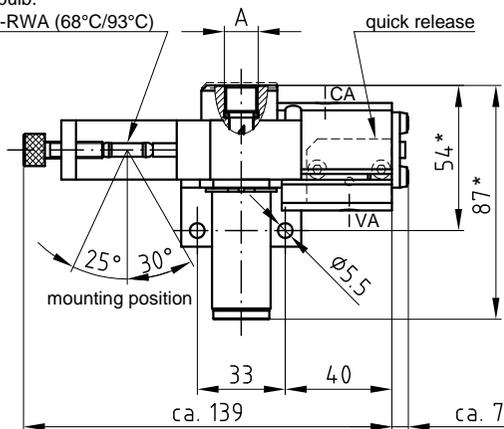
Tolerance Scale 1:2 Material

Created Simetzberger	Sheet 1/2	Format A3	Title Thermal release valve TAVE 3.x1-MK50 mounting bracket hole spacing 50mm	Document Style Data sheet
Approved HA	Issue Date 09.03.2020			Document State Valid
Grasl Pneumatic Mechanik GmbH		QM FO 05.24.0		Document Number 04.021.DAT.09.02-E



VdS-approved thermo bulb:

JOB G5-RWA (68°C/93°C)



Description of function:

The temperature valve TAVE 3 is a release valve, which, on the bursting of a thermo bulb, 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 there is a connection between the input VA and the outlet CA e.g. to enable unhindered ventilation operation.

Option quick release:

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:

Thermal releasing via bursting of the thermo bulb

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 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:

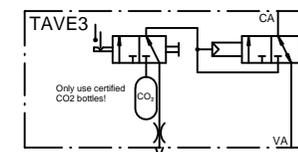
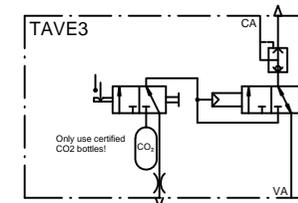


Diagramm with quick release:



Scope of supply:

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

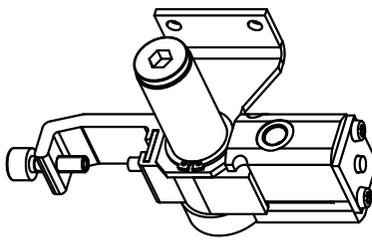
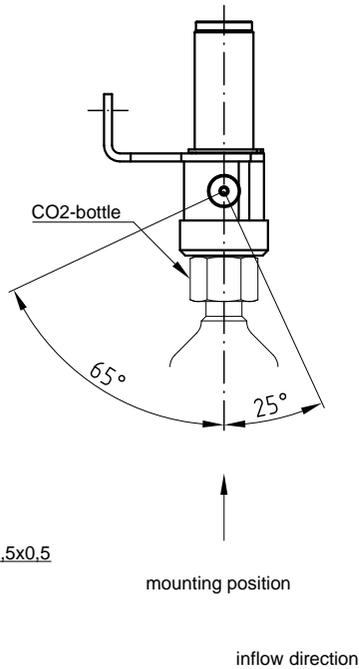
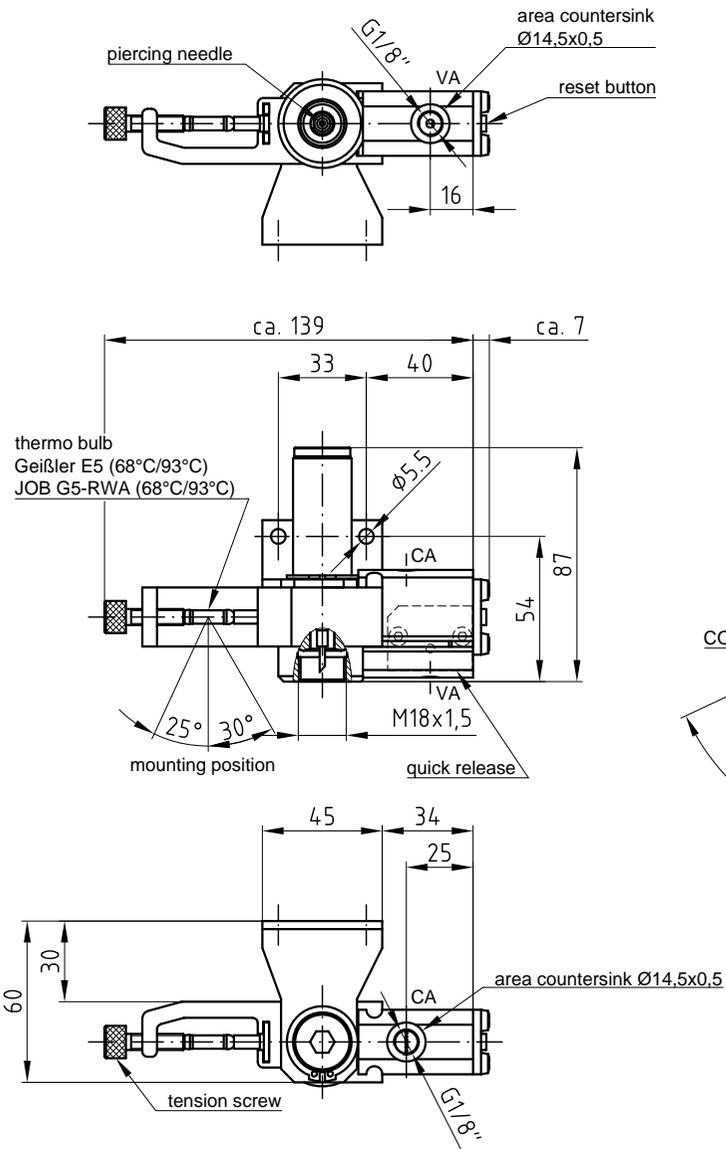
Types:

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

Tolerance Scale 1:2 Material

Created Simetzberger	Sheet 1/2	Format A3	Title Thermal release valve TAVE 3.x2	Document Style Data sheet
Approved KW	Issue Date 19.09.2012			Document State Valid
Grasl Pneumatic Mechanik GmbH		QM FO 05.24.0		Document Number 04.021.DAT.03.02-E

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



Description of function:

The temperature valve TAVE 3 is a release valve, which, on the bursting of a thermo bulb, 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 there is a connection between the input VA and the outlet CA e.g. to enable unhindered ventilation operation.

Option quick release:

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:

Thermal releasing via bursting of the thermo bulb

Mounting:

1) Join connections as follows:

- CA cylinder OPEN
- VA vent line or CO₂ line OPEN

2) When using a CO₂ ascending-tube bottle the TAVE 3 must be installed as drawn adhering to the inflow direction (bottle screwed in from the bottom).

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.

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) Screw in CO₂-bottle.
- 7) 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

Scope of supply:

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

Types:

Type	quick release
TAVE 3.02	no
TAVE 3.12	yes

Diagramm without quick release:

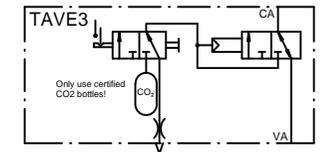
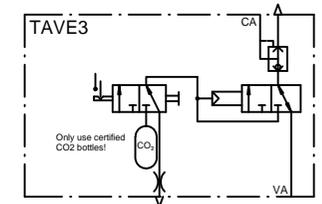


Diagramm with quick release:



Tolerance Scale 1:2 Material

Created Simetzberger	Sheet 1/2	Format A3	Title Thermal release valve TAVE 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.07.01-E