Thermofuse O/C

Technical File
T 03007 C

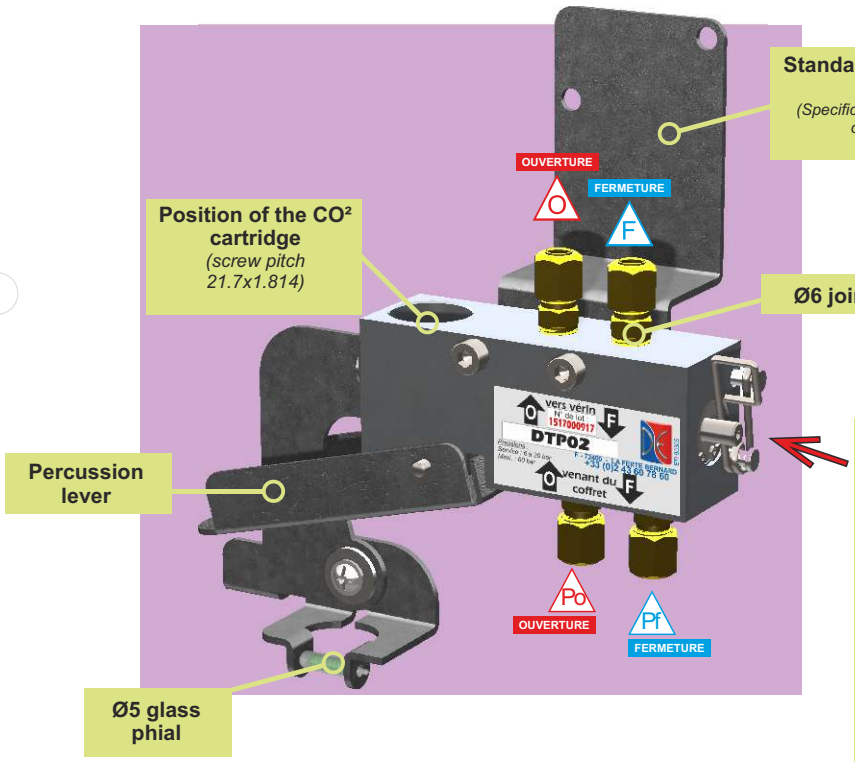
DTP02

Description - General information

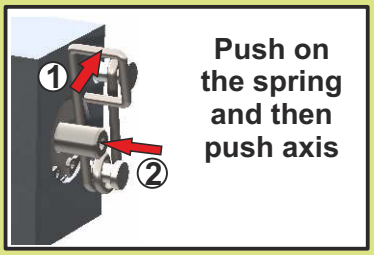
Pneumatic Thermal Trigger

Intrinsic energy device which is activated by a rise in temperature and does not need an external power supply to trigger and set in motion the SHEV on which it is installed.

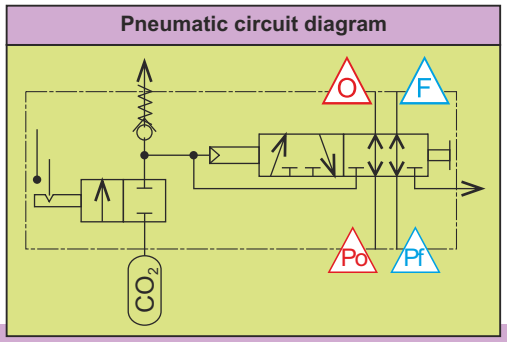
When the temperature rises in the case of a fire, the glass phial containing alcohol shatters and releases the pin which then strikes the CO^2 cartridge. This means the SHEV can be activated autonomously.

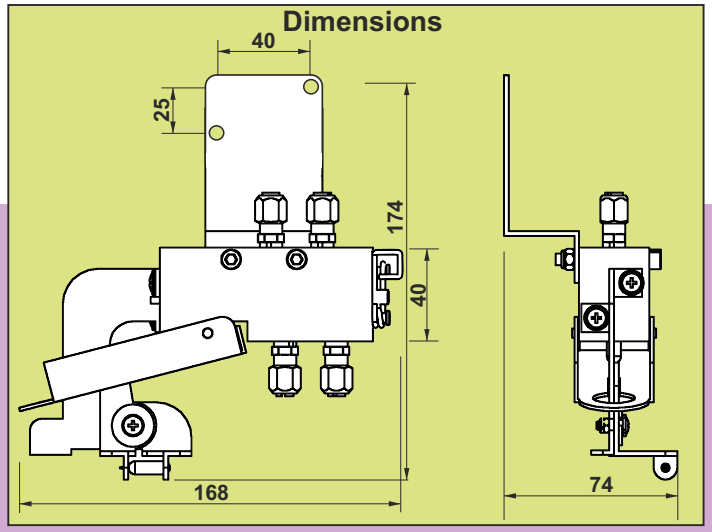


WARNING !
The thermal trigger is reset MANUALLY after the circuit has been drained.



Pneumatic circuit diagram





Cartridges must be screwed in place manually.

NF - Control devices for FSS
This label certifies :
- Conformity to norm NF S 61-938 for SCPs
- The values of the characteristics set out in this technical file.

Certification body
AFNOR Certification - 11 Rue F. de Pressensé
93571 LA PLAINE SAINT DENIS CEDEX

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REMINDER :

Pipes and connections : *§ 7.2 of the NFS61-932*
Pipes should be made entirely of copper or stainless steel. Connections should be airtight, metal against metal.
Pneumatic piping should run through the interior of the building, to avoid the risk of freezing.
Performance and testing : *§ 6.4 of the NFS61-932*
The calculation to define the capacity required should be based on the characteristics of the components of the system to be fed and should take into account the characteristics of the circuit.
The pressure should be checked using a specialised tool (for example a pressure gauge) in order to make sure that the pressure present in the circuit corresponds to this calculation. In addition, this tool will check the airtightness of the circuit.

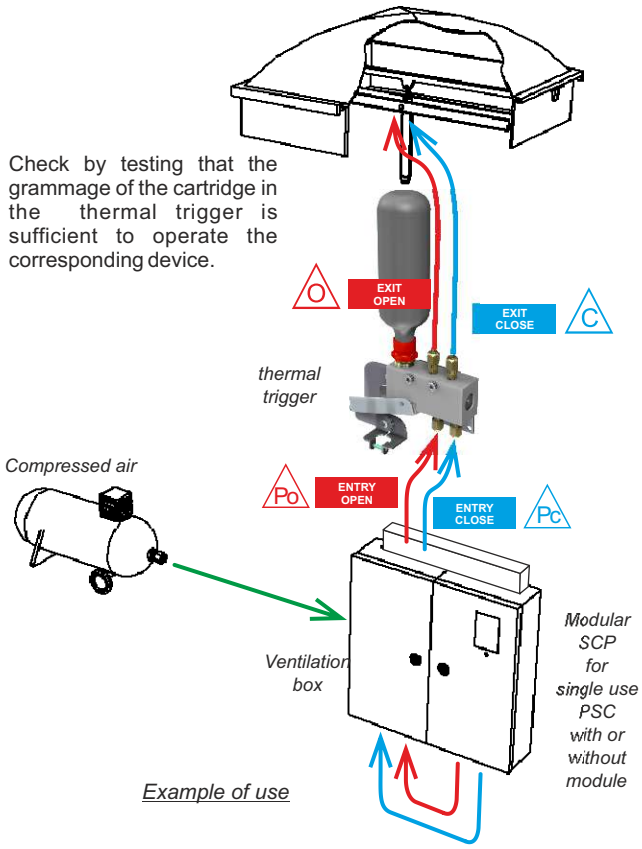
Installation

The thermal trigger should be installed as close as possible to the SHEV.
It should be mounted with the cartridge in a vertical position, the head facing downwards if the cartridge does not have a plunger tube.
Connect to the circuit.
Tighten until it is secure. (1.5 turns maximum)

- Connect the entry (Po) and exit (O) of the thermal trigger to the Open pneumatic circuit.

- Connect the entry (Pf) and exit (F) of the thermal trigger to the Close pneumatic circuit.

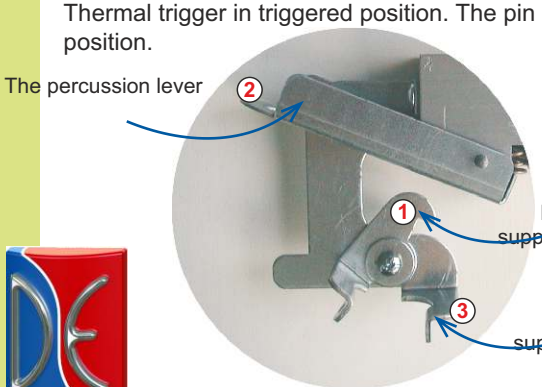
Check by testing that the grammage of the cartridge in the thermal trigger is sufficient to operate the corresponding device.



Example of use

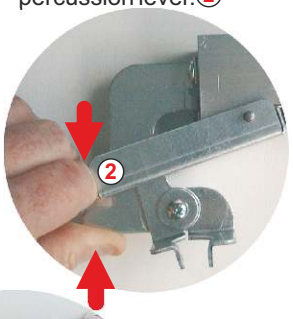
Positioning of the glass phial containing alcohol.

Thermal trigger in triggered position. The pin is in the up position.



Turn the mobile bracket (1) towards the left.

Lower the percussion lever. (2)



Holding the unit in this position, place either end of the glass phial into the support holes (1) on (3) the brackets and release gently.

Positioning of the CO² cartridge.

Make sure that the pin is in the down position.
Put the CO² cartridge in place and screw on tightly **WITHOUT USING TOOLS.**

NOTE :
Cartridge 68° or 93°C according to requirements, head facing downwards if it does not have a plunger tube.
When this step has been carried out, the thermal trigger is back in stand-by position.

Resetting

Clean the thermal trigger of any debris, glass or coloured liquid from the shattered phial.
Reset the thermal trigger (See overleaf).
Put a new phial in place.
Screw on a full cartridge.

Maintenance

THE PRODUCT, every 6 months.
Check that everything is in good working order.
Check the condition of the pins.
INSTALLATION, see according to norm NFS61-933

Easy installation, useful material

To carry out the installation of this product, you will need the following :	
Pressure control kit	*KIP01*
Copper piping	*TCB506*
Copper reel	*TCC2506*
Straight joint	*RAU2621*
T joint	*RAU2623*
Glass phial containing alcohol	*AMP935*
CO² Cartridge	*CARDE93.....*

Technical Characteristics

Material . . . . . :Steel, brass, aluminium.
Protection . . . . . :Zinc coating
Safety measures . . . . . :To be handled with the fingers, paint RAL3000.
Force to be applied . . . . . :< 5 daN.
Protection index . . . . . :IP42.
Energy. . . . . :Co² or inert gas.
DCM entry and exit . . . . . : Olive screw connection
Temperature during use . . :- 20°C to + 182°C
Pressure . . . . . :operating = 3 to 20 bar
. . . . . in use = 60 bar
. . . . . during testing = 90 bar.
CO² cartridge pitch . . . . . :21.7 x 1.814
Precautions . . . . . :Stock and install away from bad weather conditions.

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