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LOCALIZED SHUTDOWN SYSTEMS

They are systems created and designed to be installed to protect unattended premises on a constant basis.
The installation can take place internally and externally to the room to be protected, the extinguishant is supplied via special nozzles, connected to the aluminum pipe, for discharge at a pre-established point.
The valve equipped with a thermo-expanding bulb allows the application of the activation cable (optional) and/or the pyrotechnic cartridge (optional) for activation from remote control or detector for installation of the device outside the engine compartment.
The valve is also equipped with a pressure switch for constant signalling of the pressure inside the device.

FOAM

SERIE INDUSTRIAL FOAM

Suitable on class fires

BUREAU VERITAS

CE

OPTIONAL ACCESSORIES

Manual actuator

Distribution tube

Pyrotechnic cartridge

INCLUDED ACCESSORIES

Pressure switch

Bracket

Fittings 4 pieces

Dispensing nozzle 2 pieces

FOAM LOCALIZED SHUTDOWN SYSTEMS - INDUSTRIAL SERIES

TECHNICAL SPECIFICATIONS

CYLINDER	In high-strength alloy steel, external powder painting Red Ral 3000 Inside treatment: plastification coating
EXTINGUISHING AGENT	Foam (2% SC-6 + 98% Water)
PROPELLANT	Nitrogen (N_2)
VALVE	M. 30x1.5, with bulb in standard equipment, supplied with pressure switch set at 11 bar
USE	A B fire rating (solid materials, flammable liquids)
ACTIVATION	Automatic when bulb temperature is reached; On request (see optional): - with manual actuator with handle, - with pyrotechnic cartridge for electric activation. *Note: the valve allow installation of both of two optional activation, is possible to install both at the same time
BULB TEMPERATURE ACTIVATION	93°C
SYSTEM TEMPERATURE RANGE	+5°C/+60°C
SYSTEM PRESSURE	15 bar at 20°C
BRACKET	Wall-mounted in standard equipment, iron painted

AVAILABLE MODELS

System Code	Max covered Volume (m^3)	Cylinder Volume (L)	Nominal charge (Kg)	Max tube lenght (m)	Cylinder diameter (mm)	Max dimensions L x H (mm)	* Weight (Kg)
11069-1	10	7,5	6	5	160	180 x 530	~ 10,45
11099-1	20	10,5	9	6	170	190 x 620	~ 14,90

*Weight includes: pressure switch, bracket, 2 dispensing nozzles, 4 fittings

TECHNICAL SPECIFICATIONS FOR OPTIONAL PARTS

Code 1890-3 Manual actuator kit for remote activation, including:
- stainless steel cable 6 m, plastic coated, with brass terminals.
  With special self-tapping terminals that allow to cut cable at right mesure and then install into terminals;
- cable storage box, ABS white.

Code 2164 (quantity for meters)

Distribution tube for extinguishing agent, in aluminum with PVC external coating , 10 mm diameter.

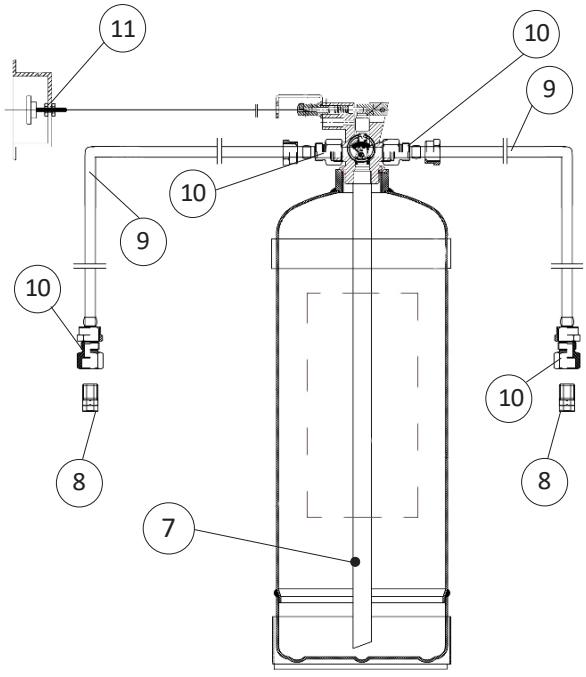
Code 2166-1

Pyrotechnic cartridge for remote electric activation.

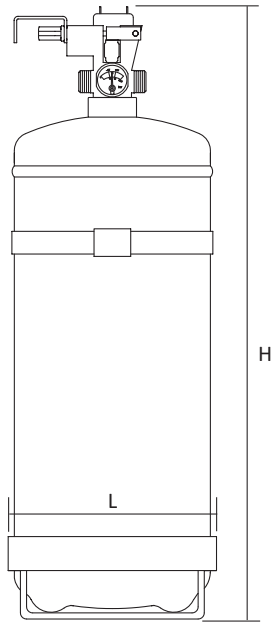
SPARE PARTS

N.	DESCRIPTION		CODE
1	M. 30x1.5 valve with thermosensible bulb for automatic activation 93°C		1906
2	Pressure gauge 1/8 NPT		0272
3	Cylinder	7,50 L 10,70 L	0112-3 0111-2
4	Bracket	7,50 L 10,70 L	0316-1 0318-2
5	Label		2064-2
6	Pressure switch 1/8" , set at 11 bar, with protection cap		1161
7	PVC dip tube	7,50 L 10,70 L	0154 0155-1
8	Dispensing nozzle M 3/8”		2163-2
9	Distribution tube for ext. agent - meters q.ty		2164
10	Fitting for distribution tube, F 3/8” ogive		2165
11	Manual actuator kit for remote activation		1890-3

IDEAL INSTALLATION ILLUSTRATION



DIMENSION REFERENCE



Warnings for use

1) Suitable for use on electrical fires (control panels or electrical circuits).
2) Ventilate the room after use.
3) Recharge the device after each use, even if partial

Maintenance and periodic controls

Maintenance and installation operations must be carried out by personnel specialized in the use of pressure equipment and as reported in this technical manual.
During maintenance it is necessary to take all precautions to prevent fires, make the device safe by repositioning the safety plug and operate in a sufficiently open and ventilated room.
Maintenance must be carried out with the frequency indicated by the country in which it is installed.
The use of non-original spare parts, or those not authorized by the manufacturer Emme Antincendio srl, will invalidate the approval of the systems covered by this technical manual.
*Note : Check and comply with the dispositions in force in the country of destination and use of the system.
The date for the audit activity must always be calculated from the production date indicated in the declaration of conformity. The date for the hydrotest must always be calculated from the date marked on the tank.

Maintenance includes the following activities recommended by the manufacturer

STEP	PERIODICITY	OPERATIONS
User supervision	Recommended every month by qualified on-board staff or user	Check that pressure gauge indicator is inside green area, so that there are no air leaks
Inspections and Maintenance	Every year inspection, carried out by qualified personnel or an authorized company	Visually check that all accessible components are in working order. Examine all extinguishing agents containers externally, to ensure the absence of damage or corrosion. Check the hydrostatic test date of the cylinder storage and the date of verification of the quantity of extinguishing agent. Perform the functional test of the optical and audible alarms. Check the correct operating position of the control valve. Check the dispensing tube, make sure that no damages or corrosion signs are presents
	Every 5 years inspection, carried out by qualified on-board personnel or an authorized company	Change of extinguishing agent, check inside conditions of cylinder, check condition and functioning of valve and of others components (o-ring, stem of valve, ecc.)
Hydrotest Cylinder	Every 10 years inspection, carried out by authorized company	Check of mechanical stability of cylinder with hydrotest of cylinder at pressure test marked on cylinder identified with “PT” Change the dispensing tube

Product Warranty

Any restoration operations and instrumental checks must be carried out exclusively by competent and authorized personnel, with the documentation necessary to carry out the operations to maintain product performance.
Any tampering or intervention by unauthorized personnel will void the product warranty.

End-of-life

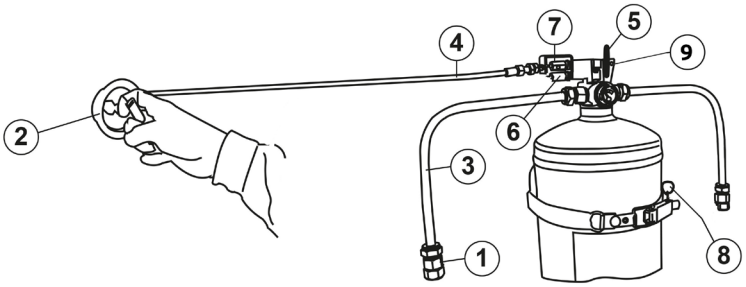
The disposing of the devices must be carried out by qualified personnel and in conformity at European Directives and National Rules regarding safety and environmental protection.
The risk deriving from incorrect handling during decommissioning is mainly linked to external impacts.

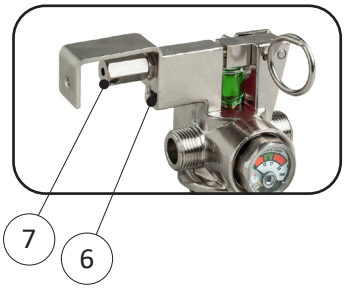
Installation

The installation must be carried out by qualified personnel who are aware of the risks of pressurized equipment and the precautionary measures that must be taken to avoid them.
The system components are designed to be installed on supports supplied and fixed to the structure.
The cylinders containing the extinguishing agent and the activation control are not subject to temperatures outside the designated operating range of the system.
The extinguishing system must be installed with an adequate discharge pre-alarm system.
The pre-alarm system must be designed and installed by installer and are not provided by manufacturer of system.
The cylinders with extinguishing agent can be installed both inside or outside the protected room.
Place the device in the supplied bracket, in vertical position and with valve looking up.
Installation in places of passage must be carried out in such a way as to avoid the possibility of accidental impacts.

1) Install the fire prevention system inside or outside the engine compartment, with the appropriate supplied bracket.
2) Check that pressure gauge indicator is inside green area.
3) Place the dispensing tube (pos.3) and fix nozzles (pos.1) at edge with supplied fittings. Place nozzles in vertical position and looking down, in the area of higher fire risk of the engine.
4) If manual actuator is present (optional) proceed with installation. Place the cable (pos.4) and fix into the box (pos.2). Put the cabe (pos.4) into the pawl (pos.7) and screw the allen key.
5) Connect the pressure switch to the visual system in a visible position.
6) If pyrotechnic cartridge is present (optional) proceed with installation. Screw in specific seat (pos.6) and connect to a button or electrical control unit with 12 V 0,5 Ah
7) Remove safety pin (pos.5).

The system is operative





LEGEND
1) Dispensing nozzle
2) Remote manual actuator
3) Dispensing pipe
4) Cable of manual actuator
5) Safety pin
6) Seat for optional activation commands
7) Pawl for connection of manual actuator cable
8) Bracket