



## LOCALIZED SHUTDOWN SYSTEMS

### POWDER

#### MARE-PW SERIES

Suitable on class fires



They are systems made and designed to be installed on board of pleasure boats, length no more than 24 meters, for the purpose of protecting the engine compartments. The system must be installed internally to the engine compartment with specific support supplied. The valve equipped with a thermoexpanding bulb allows the activation of device when the set temperature is reach (standard bulb at 93°C). The valve is also equipped with a pressure switch for constant signalling of the pressure inside the device. On the valve is possible the installation of pyrotechnic cartridge for a remote activation.

Easy  
version



Manual actuator



Pyrotechnic cartridge



or

OPTIONAL  
ACCESSORIES

INCLUDED  
ACCESSORIES

Pressure switch



Bracket



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## TECHNICAL SPECIFICATIONS

CYLINDER	In high-strength alloy steel, external powder painting Red Ral 3000
EXTINGUISHING AGENT	ABC Powder
PROPELLANT	Nitrogen (N <sub>2</sub> )
VALVE	M. 30x1.5, with bulb in standard equipment, supplied with pressure switch set at 11 bar
USE	A B C fire rating (solid materials, flammable liquids, flammable gas)
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 the installation of only one of two optional activation, is not possible to install both at the same time
BULB TEMPERATURE ACTIVATION	93°C
SYSTEM TEMPERATURE RANGE	-20°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 <sup>3</sup> )	Cylinder Volume (L)	Nominal charge (Kg)	Cylinder diameter (mm)	Max dimensions L x H (mm)	* Weight (Kg)
11459-015	1,5	1,25	1	85	115 x 330	~ 2,25
11459-035	3,5	2,50	2	110	130 x 380	~ 3,90
11459-051	5,1	4,30	3	130	140 x 435	~ 5,65
11459-070	7,0	4,30	4	130	140 x 435	~ 6,65
11459-100	10,0	7,30	6	160	180 x 480	~ 10,00
11459-150	15,0	10,70	8,8	170	190 x 600	~ 13,95
11459-200	20,0	12,50	11,7	190	210 x 580	~ 18,05

\*Weight: pressure switch and bracket included

## TECHNICAL SPECIFICATIONS FOR OPTIONAL PARTS



Code 1890-35 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 measure and then install into terminals;  
 - cable storage box, ABS white.



Code 2166-1  
 Pyrotechnic cartridge for remote electric activation.

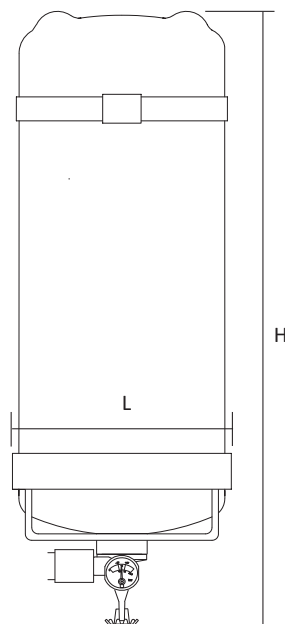
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## SPARE PARTS

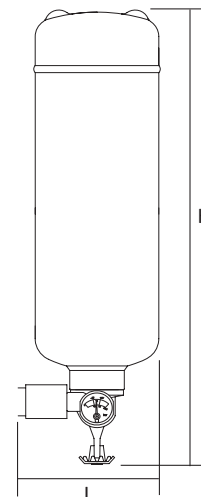


N.	DESCRIPTION	CODE	
1	M. 30x1.5 valve with thermosensible bulb for automatic activation 93°C	2133-1	
2	Pressure gauge 1/8 NPT	0272	
3	Cylinder	1,25 L	0101
		2,50 L	0102
		4,30 L	0103
		7,30 L	1848K
		10,70 L	0105-7
4	Bracket	12,50 L	0105-8
		1,25 L	0326
		2,50 L	0327
		4,30 L	0315-1
		7,30 L	0316-1
5	Label for cylinders up to 2,50 L Label for cylinders 4,30 L Label for cylinders 7,30 L and upper	10,70 L	0318-2
		12,50 L	0317-1
			2064-46
5	Label for cylinders up to 2,50 L Label for cylinders 4,30 L Label for cylinders 7,30 L and upper		2064-47
			2064-45
			2064-45
6	Pressure switch M.10x1 , set at 11 bar, with protection cap	1161-2	

REFERENCE FOR CYLINDERS 7,30 L AND UPPER



REFERENCE FOR CYLINDERS 1,25 L - 2,50 L - 4,30 L



REPRODUCTION IS PROHIBITED

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## 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, in Italy it must be carried out in accordance with the "safety of navigation" circular general series no. 100/2014.

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 on-board 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, if present. Check the correct operating position of the control valve.
	Every 5 years inspection, carried out by qualified on-board personnel or an authorized company	Check the status 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"

## 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.

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## 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 of the boat in order to resist shock and vibration movements during operation.

The cylinders containing the extinguishing agent and the activation control are not subject to temperatures outside the designated operating range of the system.

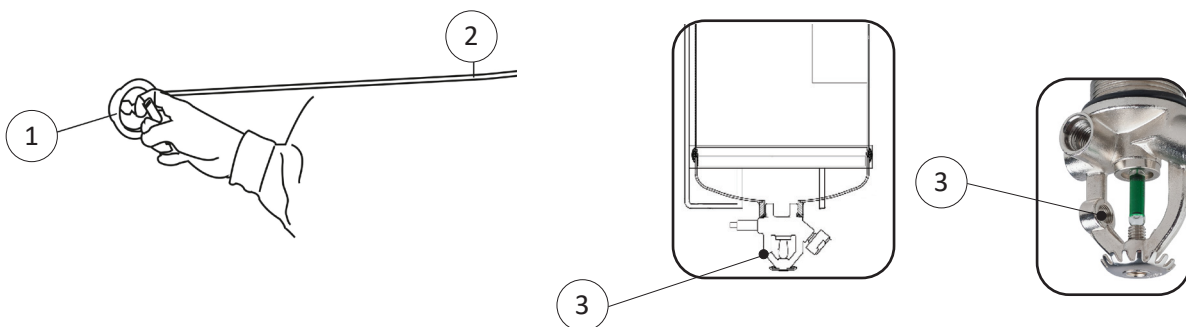
The extinguishing system must be installed with an adequate discharge pre-alarm system (discharge delay) as required by ISO 9094:2015 pt. 7.6.3.3. The pre-alarm system must be designed and installed by installer and are not provided by manufacturer of system.

The cylinders with extinguishing agent must be installed inside the protected room.

Place the device in the supplied bracket, in vertical position and with valve looking down for MARE-PW EASY model. 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 into the engine compartment with the appropriate supplied bracket.
- 2) Check that pressure gauge indicator is inside green area.
- 3) If manual actuator is present (optional) proceed with installation. Place the cable (pos.2) and fix into the box (pos.1). Put the cable (pos.2) into the pawl and screw at valve (pos.3).
- 4) Connect the pressure switch to the visual system located on the dashboard or anyway in a visible position.
- 5) If pyrotechnic cartridge is present (optional) proceed with installation. Screw in specific seat (pos.3) and connect to a button or electrical control unit with 12 V 0,5 Ah

The system is operative



### LEGEND

- 1) Remote manual actuator
- 2) Manual cable actuator
- 3) Seat for optional activation commands

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