



## LOCALIZED SHUTDOWN SYSTEMS

**FK-5-1-12**

**MARE-FK SERIES**

Suitable on class fires



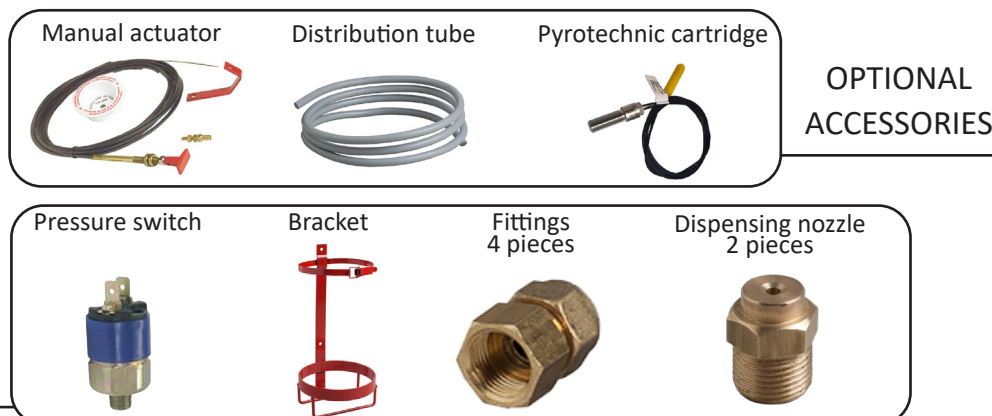
They are systems made and designed to be installed on board of pleasure boats, length no more than 24 meters, for the purpose of protecting the engine compartments.

The system can be installed both internally and externally to the engine compartment and connected with optional aluminium tube for discharge at a predetermined point. The valve equipped with a thermoexpanding bulb allows the activation of device when the set temperature is reached (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.



**INCLUDED  
ACCESSORIES**



**OPTIONAL  
ACCESSORIES**

REPRODUCTION IS PROHIBITED

| File name      | Type of document | Fire Extinguisher Model | Date       | Rele. | Check | Rev. | Pag. |
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# FK-5-1-12 LOCALIZED SHUTDOWN SYSTEMS - MARE-FK SERIES

## TECHNICAL SPECIFICATIONS

|                             |                                                                                                                                                                                                                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CYLINDER                    | In high-strength alloy steel, external powder painting Red Ral 3000                                                                                                                                                                                                                            |
| EXTINGUISHING AGENT         | Clean Agent FK-5-1-12                                                                                                                                                                                                                                                                          |
| 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 fire rating (solid materials, flammable liquids)                                                                                                                                                                                                                                           |
| ACTIVATION                  | Automatic when bulb temperature is reached;<br>On request (see optional): - with manual actuator with handle,<br>- with pyrotechnic cartridge for electric activation.<br>*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    | -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) | Max tube lenght (m) | Cylinder diameter (mm) | Max dimensions L x H (mm) | * Weight (Kg) | Label Code |
|-------------|--------------------------------------|---------------------|---------------------|---------------------|------------------------|---------------------------|---------------|------------|
| 11509-015   | 1,5                                  | 1,2                 | 0,80                | 2                   | 85                     | 120 x 350                 | ~ 2,55        | 2066-015   |
| 11509-030   | 3,0                                  | 1,2                 | 1,60                | 2                   | 85                     | 120 x 350                 | ~ 3,35        | 2066-030   |
| 11509-050   | 5,0                                  | 2,45                | 2,70                | 2                   | 110                    | 130 x 400                 | ~ 5,20        | 2066-050   |
| 11509-075   | 7,5                                  | 3,90                | 4,00                | 2                   | 130                    | 145 x 435                 | ~ 7,20        | 2066-075   |
| 11509-085   | 8,5                                  | 3,90                | 4,50                | 3                   | 130                    | 145 x 435                 | ~ 7,70        | 2066-085   |
| 11509-100   | 10,0                                 | 3,90                | 5,30                | 3                   | 130                    | 145 x 435                 | ~ 8,50        | 2066-100   |
| 11509-125   | 12,5                                 | 7,50                | 6,60                | 3                   | 160                    | 180 x 530                 | ~ 11,20       | 2066-125   |
| 11509-150   | 15,0                                 | 7,50                | 7,90                | 4                   | 160                    | 180 x 530                 | ~ 12,50       | 2066-150   |
| 11509-180   | 18,0                                 | 7,50                | 9,50                | 5                   | 160                    | 180 x 530                 | ~ 14,10       | 2066-180   |
| 11509-200   | 20,0                                 | 10,70               | 10,50               | 6                   | 170                    | 190 x 620                 | ~ 16,40       | 2066-200   |

\*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.

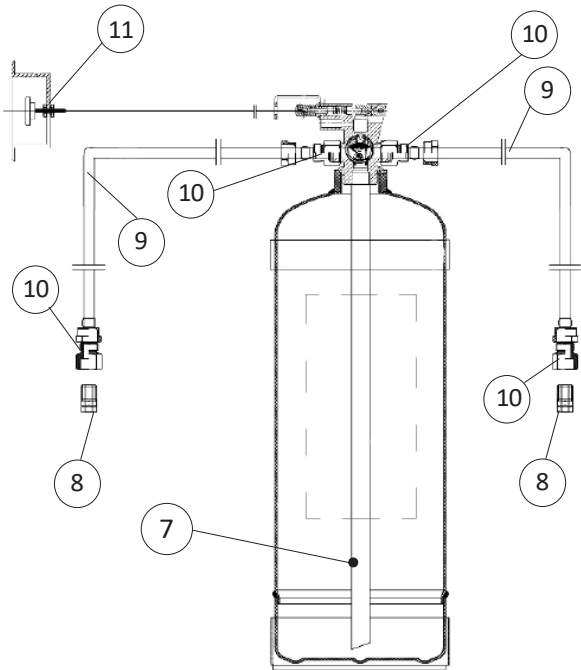
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SPARE PARTS

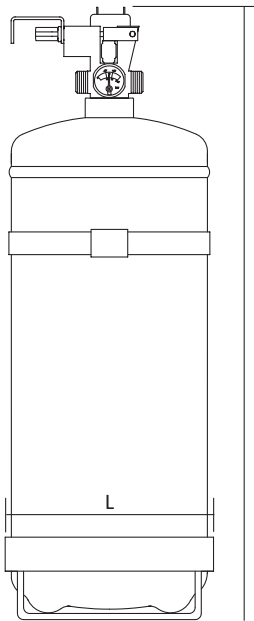
| N. | DESCRIPTION                                                            |         | CODE                              |
|----|------------------------------------------------------------------------|---------|-----------------------------------|
| 1  | M. 30x1.5 valve with thermosensible bulb for automatic activation 93°C |         | 1906                              |
| 2  | Pressure gauge 1/8 NPT                                                 |         | 0272                              |
| 3  | Cylinder                                                               | 1,2 L   | 0101F                             |
|    |                                                                        | 2,45 L  | 1579-5                            |
|    |                                                                        | 3,90 L  | 1583-6                            |
|    |                                                                        | 7,50 L  | 0112-3                            |
|    |                                                                        | 10,70 L | 0111-2                            |
| 4  | Bracket                                                                | 1,2 L   | 0326                              |
|    |                                                                        | 2,45 L  | 0327                              |
|    |                                                                        | 3,90 L  | 0315-1                            |
|    |                                                                        | 7,50 L  | 0316-1                            |
|    |                                                                        | 10,70 L | 0318-2                            |
| 5  | Label for cylinders                                                    |         | (reported in the table on page 2) |
| 6  | Pressure switch 1/8" , set at 11 bar, with protection cap              |         | 1161                              |
| 7  | PVC dip tube                                                           | 1,2 L   | 0151                              |
|    |                                                                        | 2,45 L  | 0152                              |
|    |                                                                        | 3,90 L  | 0152-5                            |
|    |                                                                        | 7,50 L  | 0154                              |
|    |                                                                        | 10,70 L | 0155-1                            |
| 8  | Dispensing nozzle M 3/8"                                               |         | 2163                              |
| 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                            |



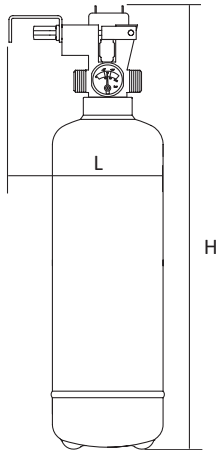
IDEAL INSTALLATION ILLUSTRATION



REFERENCE FOR CYLINDERS 7,50 L AND UPPER



REFERENCE FOR CYLINDERS 1,2 L - 2,45 L - 3,90 L



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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.

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.

Check periodically that the pressure gauge indicator is inside the green area, if indicator is in red area contact an authorized company to carry out maintenance.

### 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.

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