

TYPE APPROVAL CERTIFICATE

No.
FPE446903CS

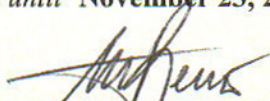


This is to certify that the product identified below is in compliance with the applicable requirements of the RINA type approval system.

<i>Description</i>	MONITOR FOR WATER FIRE FIGHTING SYSTEM
<i>Type</i>	AS 6
<i>Applicant</i>	CACCIALANZA & C. VIA PACINOTTI 10 20090 SEGRATE (MI) ITALY
<i>Manufacturer</i>	CACCIALANZA & C.
<i>Place of manufacture</i>	VIA PACINOTTI 10 20090 SEGRATE (MI) ITALY
<i>Reference standards</i>	RINA RULES FOR THE ASSIGNMENT OF THE SERVICE NOTATION FIRE-FIGHTING SHIP

Issued in **Genoa** on **November 24, 2003**. This Certificate is valid until **November 23, 2008**





RINA

X **Claudio Abbate**

This certificate consists of this page and 1 enclosure

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MONITOR FOR FIRE-FIGHTING VESSELS
AS 6

Reference documents

- RINA Test Report n°92-DG 1105 TO dated May 3rd, 1993 provided with two enclosures
- RINA Type Approved Statement n°CDS/138/93/TAO dated May 4th, 1993
 Caccialanza drawings stamped with "Visto" on May 4th, 1993:
- n°A06 3600/21Z
- n°A52 4700/10Z
- n°A52 4700/11U
- n°BEX 7505/01F
- n°A06 6501/10F
- n°A06 6503/12T
- n°A06 6503/16Q

Technical characteristics

Monitor orientation body	Material of construction: anodized light alloy ALCu ₄
Monitor branchpipe	Material of construction: stainless Steel AISI 316
Water nozzle	Type : "F" , provided with fixed water deflector device for full/spray jet Material of construction: stainless Steel AISI 304 (nozzle body) and anodized light alloy ALCu ₄ (water deflector device)
Water discharge rate	20000 l/min at a minimum pressure of 1,35 N/mm ² upstream the monitor body (0,9 N/mm ² in way of the water nozzle)
Lenght of throw	120 m for a 20° elevation
Height of throw	45 m for a 60° elevation



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MONITOR FOR FIRE-FIGHTING VESSELS
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Field of application

Fire-fighting systems installed on board of ships specially intended and equipped for fighting fire, having RINA service notation "fire-fighting ship 1".
Other applications to be considered on a case by case basis.

Remarks

- Each item of the mass production to be fitted on vessels classed by RINA is to be previously inspected at the manufacturer workshop by a RINA Surveyor and is to be marked or labelled with the trade name and the data of the Company to whom this Certificate is addressed. The validity of this Certificate ceases in the case of amendments to the rules on the basis of which the Certificate was issued.
- Prior to fitting the system on board, for each installation the following details shall be submitted to RINA Head Office for approval:
 1. schematic arrangement of the system including sizes and material of piping and method of pipe jointing;
 2. specification of the supply pump(s) and
 3. constructional details of the remote control system.

24/11/2003

