



**EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED438421CS/002**

This is to certify that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Life-Saving appliances requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2021/1158.

<i>MED Item N°</i>	MED/1.10
<i>USCG Category N°</i>	160.122
<i>Description</i>	Buoyant smoke signals (pyrotechnics)
<i>Type</i>	SMOKE VULCAN - FDF
<i>Applicant</i>	F.D.F. SRL VIA FRANCHI PEZZE 18 82017 PANNARANO (BN) ITALY
<i>Testing standards</i>	IMO Res. MSC.81(70), as amended; ISO 15736: 2006.
<i>Reference standards</i>	SOLAS 74 Reg. III/34, IMO Res.MSC.48(66)-(LSA Code) I, IMO Res.MSC.48(66)-(LSA Code) III.

Issued in Genoa on
July 26, 2022

This Certificate is valid until
July 25, 2027

This Certificate consists of this sheet plus an attachment

Giovanni Carratino

RINA Services S.p.A.



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Manufacturer

F.D.F. SRL

Place of Manufacturer

VIA FRANCHI PEZZE 18 82017 PANNARANO (BN) ITALY

Name & place of Authorised Representative

Antonello De Renzi

ITALY

Product description

Metallic case cylindrical shape:

Lenght	86 mm,
Diameter:	75 mm.
Weight	about 500 gr.
Smoke emission time	> 180 sec.
Color of smoke	orange

Reference documents

Drawing n° OSV FdF 00.02 approved with n° 6012758 on 21.03.2002

Technical drawing of "Orange Smoke Floating - Vulcan Fdf" issued by FDF Srl and approved by RINA with n° CSST-19730 (26-07-2022).

Tests carried out

Test report n° 2008 CS 01 1219/2, filed by RINA with n° CSST- 1457 and n. 22NA33301 filed by RINA with n. CSST-20403

Test report n° 35319-01 issued by Istituto Elettrotecnico Nazionale Galileo Ferraris.

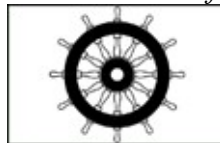
Remarks

Each signal shall be permanently marked with the date (month and year) of manufacture.



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The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YYYY

"WHEELMARK FORMAT"

XXXX *Notified Body number undertaking surveillance module*
YYYY *The year in which the mark is affixed*

USCG Approval marking

This equipment is covered by the scope of the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment signed February 27th, 2004 and amended by Decision No. 1/2018 dated February 18th, 2019 according to U.S. Coast Guard approval category **160.122**.

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F) as allowed by the MED.

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reappraised prior to it being placed on board vessels to which the amended regulations or standards apply.

Giovanni Carratino