



**EC TYPE EXAMINATION (MODULE B)**  
**No. MED194718CS/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) 2018/773.*

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

*Issued in Genoa on*  
June 20, 2018

*This Certificate is valid until*  
June 19, 2023

*This Certificate consists of this sheet plus an attachment*



  
x **Franca Parisi**  
RINA Services S.p.A.





*Manufacturer*  
F.D.F. SRL

*Place of Manufacturer*  
VIA FRANCHI PEZZE 18 82017 PANNARANO (BN) ITALY

#### Product description

Metallic case cylindrical shape

Type 1	Lenght	120 mm
	Diameter	86 mm
Type 2	Lenght	90 mm
	Diameter	86 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 1433 (24.04.2008)

#### Tests carried out

Test report n° 2008 CS 01 1219/2 filed by RINA with n° CSST 1457

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.





ATTACHMENT TO  
No. MED194718CS/002  
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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**

This product has been assigned a U.S. Coast Guard module B number (*USCG number: 160.122/EC0474*) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27<sup>th</sup>, 2004.  
The manufacturer is allowed to affix the U.S. Coast Guard approval number to the above equipment subject to the authorization of the Notified Body undertaking the surveillance module.

**General conditions for the approval**

- The initial conditions verified by RINA at the time of the approval are to be maintained
- Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- 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
- RINA personnel are to be allowed to witness during the performances of activities, upon their request
- The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reaproved prior to it being placed on board vessels to which the amended regulations or standards apply.



*Franca Parisi*  
x Franca Parisi

