

**KR HELLAS LTD.**  
41, Athinas Av., Vouliagmeni,  
GR-16671, Athens, Greece

TEL: +30-210-428-6736  
FAX: +30-210-428-6728



**Certificate No:**  
**MED-MB-1014-14**  
**MED Item No. : A.1/1.9**

This consists of 3 pages.  
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## **EC TYPE EXAMINATION CERTIFICATE**

**as per Module B**  
**of European Council Directive 96/98/EC on Marine Equipment (MED)**

***THIS IS TO CERTIFY*** that KR Hellas Ltd., designated by the Hellenic Republic of Greece as Notified Body according to Council Directive 96/98/EC on Marine Equipment as amended, did undertake the EC Type Examination procedures for the product identified below according to the following specific standards and that the product is found to meet the specific standards in compliance with the requirements of Annex A.1, Section 1, item No. A.1/1.9 and Annex B, Module B in Council Directive 96/98/EC as amended by Commission Directive 2014/93/EU:

**Manufacturer Name : PYROTECHNOURGIKI LTD.**  
**Address : Eleonas Thibes, Biotia, Greece**

**Product Name (A.1 item designation) : Hand Flares (Pyrotechnics)**

**Product Types : PyroPol Handflare red CF3, Art-No 1304600**

**Specific Standards : SOLAS 1974 as amended, Regulation III/4, III/34, X/3, IMO Res.MSC.36(63)-(1994 HSC code) 8, MSC.48(66)-(LSA code) I, III, MSC.97(73)-(2000 HSC code) 8, Res.MSC.81(70), Res.MSC.226(82) and MSC/Circ.980.**

This certificate is issued at Athens on 9th September 2016 under the authority of the Hellenic Republic of Greece by KR Hellas Ltd., Notified Body No. 2198.

This certificate is valid until 8th September 2021.



Notified Body No.2198



Shin Jeong-do

**CEO of KR Hellas Ltd.**

*Any person not a party to the contract pursuant which this document is delivered may not assert a claim against KRH for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgment, fault or negligence committed by personal of KRH in establishment or issuance of this document, and in connection with any activities for which it may provide. In this provision KRH shall mean the KR Hellas Ltd. as well as all its subsidiaries, directors, officers, employees and any other acting on behalf of KR Hellas Ltd.*



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## Attachment to EC Type Examination Certificate(1/2)

### Type examination documentation:

Technical File was approved by KR Hellas on 27 July 2016.

Technical File was re-approved by KR Hellas on 18 August 2016 due to dimension change.

### Test reports:

Tested according to IMO Res. MSC.81(70) as amended by Res.MSC.226(82) and MSC/Circ.980

Report No.	Title of Report	Inspection & Test Institutes	Date
KRH-MED-0276- 2016	Report of Conformity assessment for Module B & Inspection Recerd of MED	Korean Register of Shipping	22/08/2016
-	Test Report for Hand flares	Pyrotechnourgiki Ltd	16/08/2016

### Product description:

#### **Red Hand Flares (Pyrotechnics) (Type : Pyropol Handflare red CF3, Art-No 1034600)**

##### 1. Technical data:

- Length : 230 mm
- Diameter : 26 mm
- Weight : 179 gr.
- Body material : Steel
- Body color : Silver
- Burning time : Over 60 seconds  
of illumination agent

##### 2. Manufacturing location:

Eleonas Thibes, Biotia, Greece

### Application/Limitations of Use:

1. Pyropol Handflare red CF3, Art-No 1034600 is identical to the JUPITER K2, approved under certificate number MED-MB-1014-11, dated 8<sup>th</sup> September 2016.
2. Red Hand Flares (Pyrotechnics) (Type : Pyropol Handflare red CF3, Art-No 1034600) is approved for use onboard ships.







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## **Attachment to EC Type Examination Certificate(2/2)**

### **Application/Limitations of Use(continued):**

3. Instructions and manual for use, inspection and onboard maintenance shall be provided onboard in ship's official language.
4. The date of expiry shall be marked on the flares and the equipment shall be replaced prior the date of expiry.
5. The tests in section 4 of part 1 of IMO Res. MSC. 81(70) according to IMO Res. MSC.81(70) Part 2 shall be performed once for every 10 batches of signals produced; however, such tests should be conducted at least once every year.

### **Marking of product:**

1. Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity  according to Article 11 in the Council Directive 96/98/EC on marine equipment and issue a Declaration of Conformity, only when the module D or E or F of Annex B in the directive is fully complied with.

### **Conditions of the validity:**

1. The products are to be manufactured in accordance with the approved production quality assurance system(Module D) or approved product assurance system (Module E), or are to be subjected to product verification (Module F) of the Council Directive 96/98/EC on Marine Equipment as amended.
2. If the Directive or the applied Standard(s) is amended, the product is to be re-approved in accordance with the amended requirements prior to it being supplied to vessels to which the amended Directive or Standard(s) apply. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this certificate invalid.
3. The Manufacturer must inform the "Notified Body" of all modifications which may affect compliance with the requirements.
4. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.

### **Remark:**

- Reissued on 9<sup>th</sup> September 2016.
- Renewal of existing certificate issued on 20<sup>th</sup> January 2014.

*End of Certificate*

