



EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00005RJ
Revision No:
1

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

that the Hand flares (pyrotechnics)

with type designation(s)
HGY60-15000

issued to

Ningbo Zhenhua Life-saving Equipment Co., Ltd.
Ningbo, 130, China

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2024/1975,
item No. MED/1.9. SOLAS 74 as amended, Regulation III/4, III/34 & X/3, LSA Code and 2000 HSC Code 8 and
IMO MSC.1/Circ.1629

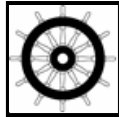
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-10-03**.

Issued at **Hamburg** on **2024-10-04**

DNV local unit:
Ningbo FIS

Approval Engineer:
Michael Oberländer



Notified Body
No.: **0098**

for **DNV SE**

Mydlak-Röder, Christine
Head of Notified Body

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) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled. Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

"HGY60-15000" is a hand flare burning with bright red colour for at least 1 minute and an average luminous intensity of minimum 15.000 candela.

Application/Limitation

Approved for use as Hand flares (pyrotechnics).

Acceptable lifetime: Expiration date not to exceed 48 months after month of manufacture

The design assessment is based on IMO Res. MSC.48(66) as amended by IMO Res. MSC.207(81) and IMO Res. MSC.218(82).

Production and installation testing shall be carried out according to IMO Res. MSC.81(70), Part 2, Ch.4 and in compliance with ISO 15736:2006 A.2.2.

Each product is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

The following documentation is basis for the DNV approval:

Documents	Date
Drawings: HGY60-15000MX	2018-05-05
Prototype test report by Wuhan Marine Lifesaving Equipment Quality Inspection Center, No.2009066	2009-09-19
Prototype test report No. 2019001 by laboratory of Ningbo Zhenhua Lifesaving Equipment Co.,Ltd. witnessed by DNV GL surveyor	2019-08-26

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70), Part 1, including IMO Res. MSC.200(80) and IMO Res. MSC.226(82).

Marking of product

The product is to be marked in accordance with ISO 15736:2006 4.3, LSA code 1.2.2.9 and 1.2.3, the MED Mark of Conformity and USCG number if applicable (see first page).

The product should be provided with brief instructions or diagrams clearly illustrating the use printed on the casing.