

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Hand flares (pyrotechnics)

with type designation(s)
HHY60-15000

Issued to

Qingdao Good Brother Marine Lifesaving Appliances Co. Ltd.
QINGDAO, China

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

Regulation **(EU) 2015/559,**

Annex A.1, item No A.1/1.9 and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation III/4, III/34 & X/3, LSA Code and 2000 HSC Code 8

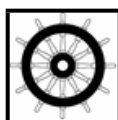
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-12-27**.

Issued at **Høvik** on **2016-12-28**

DNV GL local station:
Qingdao

Approval Engineer:
Tomasz Werchowicz



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body



Job Id:
Certificate No: **MEDB0000210**

Product description

"HHY60-15000"

hand flare with burning with red flame for at least 1 minute and average luminous intensity of minimum 15.000 candela.

Tested with drop height 18 m. Design weight 260 g.

Application/Limitation

The design assessment is based on IMO Res. MSC.48(66).

Production and installation testing shall be carried out according to IMO Res. MSC.81(70), Part 2, Ch.4.

Pull out ignition wire acceptable lifetime: 3 years

Type Examination documentation

Test report from tests performed at Qingdao Good Brother Marine Lifesaving Appliances Co. Ltd. Qingdao, China 26th April 2006 witnessed by DNV GL Qingdao.

Test report from colour test performed 17th October 2006 witnessed by DNV GL Qingdao.

Drawings from manufacturer for HHY60-15000 dated June 2003

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70) Part 1, as amended by IMO Res. MSC.226(82), and IMO Res. MSC.323(89).

Marking of product

The product is to be marked with name and address of manufacturer, type designation, date of manufacture, date of expiry, operational restrictions, 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.