

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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

**This is to certify:**

**That the Emergency escape breathing devices (EEBD)**

with type designation(s)  
**TH15B**

Issued to

**Jiangsu Huayan Marine Equipment Co., Ltd.**  
**Jiangsu, China**

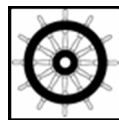
is found to comply with the requirements in the following Regulations/Standards:  
Regulation **(EU) 2017/306**,  
**item No. MED/3.41. SOLAS 74 as amended, Regulation II-2/13, FSS Code 3 and IMO MSC/Circ. 849**

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

This Certificate is valid until **2022-08-31**.

Issued at **Hamburg** on **2017-09-01**

DNV GL local station:  
**Nanjing CMC**



for **DNV GL SE**

Approval Engineer:  
**Pavel Golyshov**

Notified Body  
No.: **0098**

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**Sven Dudszus**  
**Head of Notified Body**

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-surveillance 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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



## **Product description**

"TH15B"

is an open-circuit compressed air emergency escape breathing devices (EEBD) with hood.

Principle components:

- 3 litre air cylinder (rated working pressure 210 bar) with regulator / pressure gauge assembly
- hood with breathing hose assembly
- carrying bag with harness strap

For further details, see the documents listed under Type Examination documentation below.

## **Application/Limitation**

Approved to provide personnel breathing protection during escape from a compartment that has a hazardous atmosphere. Not to be used for fire fighting or when entering oxygen deficient tanks or voids, or worn by fire fighters.

Rated working duration: 15 minutes

Each product is to be supplied with its manual for use and maintenance. Where the reliable performance of the breathing device or parts thereof are dependent of special attention due to ageing, use, cleaning or disinfection, storage conditions, service, replacement of parts etc., this shall be clearly stated here.

## **Type Examination documentation**

Test report nos. 2011008 and 2011011 dated 25<sup>th</sup> of May 2011 and 2012094 dated 5<sup>th</sup> of August 2012 issued by Wuhan Testing Center of Marine Life-saving Appliances, P.R. of China.

## **Tests carried out**

Tested according to ISO 23269-1:2008 and EN 1146:2005.

## **Marking of product**

The product is to be marked with name and address of manufacturer, type designation, fire technical rating and the MED Mark of Conformity (see first page).

In addition it shall also be marked according to IMO FSS Code Ch.3 §2.2.4, ISO 23269-1:2008 §9 and EN 1146:2005 § 8.