DNV·GL

Certificate No:
MEDB00003EX

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)
THDF10-l (10 minutes version) and THDF15-l (15 minutes version)

Issued to
Dongtai City Dongfang Marine Fitting Co., Ltd.
Dongtai 100, 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 **2023-04-03**.

Issued at **Hamburg** on **2018-04-04**

DNV GL local station:
Nantong

Approval Engineer:
Timo Linn

Notified Body
No.: **0098**

for **DNV GL SE**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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Product description

The THDF10-l and THDF15-l EEBDs are respiratory protective devices for self-rescue, self-contained open-circuit compressed air, constant flow breathing apparatus incorporating a hood and having an autonomy of 10 or 15 minutes. They are carried hands-free.

Main components of the apparatus:

- carrying bag, where duration time is indicated, allowing to wear the device around the neck and protecting it from the environment,
- compressed air cylinder (2 dm^3 @ 200 bar - class 10 min; 3 dm^3 @ 200 bar - class 15 min),
- regulator including a cylinder valve which can be opened and closed manually,
- constant reading pressure gauge,
- hose leading the flow of air to the hood,
- hood with clear view visor.

Application/Limitation

This certificate is based on the previous MED-B 47368-12 HH.

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 (THDF10-I): 10 minutes (with 2.2 l bottle),
Rated working duration (THDF15-I): 15 minutes (with 3 l bottle),
Rated working pressure: 210 bar.

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

Tests carried out

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

Marking of product

The product is to be marked according to IMO FSS Code Ch.3.2.2.4, ISO 23269-1:2008 Ch. 9, EN 1146: 2005 Ch.8 and with name and address of manufacturer, type designation, fire technical rating and the MED Mark of Conformity (see first page).

In addition each EEBD should be marked with "FOR ESCAPE ONLY".