

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00001MB
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 Emergency escape breathing devices (EEBD): self-contained open-circuit compressed air breathing apparatus with a hood for escape

with type designation(s)
THRS10, THRS15 and THRS15-B

Issued to

Jiaxing Rongsheng Lifesaving Equipment Co., Ltd.
Jiaxing City, 130, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation (EU) 2021/1158,
item No. MED/3.41b. SOLAS 74 as amended, Regulation II-2/13, FSS Code 3 and IMO MSC/Circ. 849

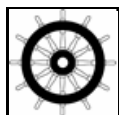
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-11-30**.

Issued at **Hamburg** on **2021-12-01**

DNV local station:
Shanghai

Approval Engineer:
Michael Oberländer



Notified Body
No.: **0098**

for DNV SE

Christine Mydlak-Roeder
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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

“THRS10, THRS15 and THRS15-B” are open-circuit compressed air emergency escape breathing devices (EEBD) with a hood. Designed for hands-free carriage.

Model	Cylinder material	Cylinder volume	Working pressure	Capacity	Output flow	Service time	Weight	Packing size
THRS10	steel	2 ltr	21 MPa	> 420 ltr	≥ 35 ltr/min	> 10min	≤ 6.0 kg	555 x 260x 160 mm
THRS15	steel	3 ltr.	21 MPa	> 630 ltr	≥ 35 ltr/min	> 15 min	≤ 8.5 kg	555x 260 x 160 mm
THRS15-B	steel	3 ltr	21 MPa	> 630 ltr	≥ 35 ltr/min	> 15 min	≤ 8.5 kg	555x 260 x 160 mm

Principle components:

THRS15 and THRS15-B

- carrying bag with harness strap
- compressed air cylinder with pressure gauge (3 l @ 210 bar - class 15 min)
- pressure reducer valve
- constant reading pressure gauge
- medium-pressure guide tube
- hood with mouth-nose mask and exhaust valve

THRS10

- carrying bag with harness strap
- compressed air cylinder with pressure gauge (2 l @ 210 bar - class 10 min)
- pressure reducer valve
- constant reading pressure gauge
- medium-pressure guide tube
- hood with mouth-nose mask and exhaust valve

Application/Limitation

Approved to provide personal 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. Each product is to be supplied with its manual for use and maintenance.

Type Examination documentation

Test reports:

No. 2011038 and 2011039 both dated 2011-07-15 and no. 2019006 dated 2019-05-21, all issued by Wuhan Testing Center of Marine Life-saving Appliances, P.R. of China.

Drawings:

- EEBD (THRS15-B) Drawing A/0 Vers. Dates 2018-12-28 (7 pages)
- EEBD (THRS) Drawing A/0 Vers. 2010-10-18 (8 pages for THRS10 and THRS15)

Tests carried out

Tested according to ISO 23269-1 (2008) and EN1146 (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 and the MED Mark of Conformity (see first page). In addition, each EEBD should be marked with "FOR ESCAPE ONLY".