

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 Self-contained compressed-air-operated breathing apparatus

with type designation(s)
RHZK 6/30 and RHZKF 6.8 /30

Issued to

Suzhou Haixing Maritime Equipment Co., Ltd.
Wujiang, 100, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397**,
item No. MED/3.7. SOLAS 74 as amended, Regulation II-2/10 & X/3, 2000 HSC Code 7, FSS Code 3, IBC Code 11, IGC Code 11 and IMO MSC.1/Circ.1499, IMO MSC.1/Circ.1555.

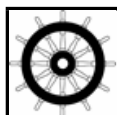
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-07-01**.

Issued at **Hamburg** on **2020-07-02**

DNV GL local station:
Shanghai

Approval Engineer:
Michael Oberländer



Notified Body
No.: **0098**

for **DNV GL SE**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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

The RHZK 6/30 and RHZKF 6.8/30 are self-contained breathing apparatus (SCBA) for shipboard fire-fighters (maritime use only) with positive pressure, consisting of the following:

- Full face mask acc. EN 136, manufactured by "Suzhou Haixing Maritime Electric Co., Ltd."
- Air supply valve
- Electrical pressure gauge and rest air warning system
- Pressure reducer
- Body harness with back plate assembly
- Compressed air cylinder (steel or composite carbon fibre) manufactured by "Sinoma Science & Technology (Jiu Jiang) Co., Ltd.:"
 - a) RHZK 6/30, volume 6.0 l / 300 bar, capacity 1800 l
 - b) RHZKF 6.8/30, volume 6.8 l / 300 bar, capacity 2040 l

The user will be alerted by a mechanical and also if fitted, an electronic signal and warning unit, before the volume of the air in the cylinder has been reduced to less than 200 l.

Application/Limitation

Approved for use as self-contained compressed air breathing apparatus of fire-fighter's outfit in accordance with SOLAS II-2 Reg.10.10.1.2.

The SCBA is in compliance with IMO FSS Code Ch.3 Para 2.1.2.1 and 2.1.2.2 as amended by IMO Res. MSC.339(91).

The apparatus is not for use in accidents involving dangerous goods.

All air cylinders for breathing apparatus shall be interchangeable.

Air cylinders and their valves shall comply with appropriate national regulations.

The volume of air contained in the cylinder shall be at least 1200 l.

Maximum working pressure: 300 bar

The compressed air shall comply with EN 12021.

The SCBA shall be used in conjunction with a fire-proof lifeline which is certified in accordance with MED/3.44.

A set of manufacturer's instructions shall accompany every unit and should be kept onboard.

Manufacturer's instructions for application / limitations, checks prior to use, donning and fitting, use, cleaning and disinfection, maintenance, transport and storage shall be adhered to.

This certificate is replacing the previous MED-B certificate 45305-16 HH and is updated to confirm compliance with new standard ISO 23269-2:2011.

Type Examination documentation

Drawing: RHZK 6/30-00 and RHZKF 6.8/30-00, dated 2014.11 issued by the manufacturer

Tests carried out

Tests according to ISO 23269-2:2011, EN 136:1998 incl. AC:2003 and EN137:2006

Marking of product

The product or packing is to be indelibly marked in accordance with ISO 23269-2:2011 Para 9 and with name and address of the manufacturer and type designation.



Job Id: **344.1-009527-1**
Certificate No: **MEDB00005M0**

The pressure vessel marking shall include the charging pressure, capacity and stamp of the authorized inspection body.