EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007BC

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 Self-contained compressed-air-operated breathing apparatus

with type designation(s)
RHZK 6/20 and RHZK 6.8/20

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

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2020/1170,**
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 **2026-03-18**.

Issued at **Hamburg** on **2021-03-19**

DNV local station:
Nanjing NB & CMC

Approval Engineer:
Roland Priebe

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

The **RHZK 6/20 and RHZK 6.8/20** are self-contained compressed-air-operated breathing apparatus (SCBA) for shipboard fire-fighters.

Model	Bottle volume	Nom. working pressure	Capacity	Weight	Cylinder material
RHZK6/20	6 L	20 Mpa	1200 L	≤18 kg	Seamless steel gas cylinder
RHZK6.8/20	6.8 L	20 Mpa	1360 L	≤18 kg	Full wrapped composite cylinder aluminium lined

They consist of following principal components:

a) Full face mask,
b) Air supply valve RHZK6/A-4,
c) Analog pressure gauge and rest air warning system,
d) Pressure reducer,
e) Back-Frame,
f) Seamless steel gas cylinder - volume: 6 litres (RHZK6/20) or
fully wrapped composite cylinder with aluminium liner - volume: 6.8 litres (RHZK6.8/20)

Maximum working pressure 20 MPa.

For further details refer to the documentation listed below under “Type Examination documentation”.

Application/Limitation

Approved for use as self-contained compressed-air-operated breathing apparatus of fire-fighter´s outfit.

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.

Each SCBA shall be used together with an approved lifeline (complying with the requirements of MED/3.44 and ISO 23269-2 Para 4.28.) as part of the fire-fighters outfit according to FSS Code Ch.3.2.1.3.

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.

Type Examination documentation

Test report No. 2003102 dated 2003-03-13 from Wuhan Marine Lifesaving Equipment Quality Inspection Center, China.
Test report No. 2017010 dated 2017-03-01 from Wuhan Testing Center of Marine Life-saving Appliances, China.
Test report No. 2017012 dated 2017-03-01 from Wuhan Testing Center of Marine Life-saving Appliances, China.
In accordance with ISO 23269-2:2011:
Test report No. 2018098 dated 2018-09-21 from Wuhan Testing Center of Marine Life-saving Appliances, China.
Test report No. 2018100 dated 2018-09-21 from Wuhan Testing Center of Marine Life-saving Appliances, China.
Air supply valve RHZK6/A-4:
Test report No. 2016158-1 dated 2016-12-02 from Wuhan Testing Center of Marine Life-saving Appliances, China.
Lifeline:
Test report No. 2019164 dated 2019-11-14 from Wuhan Testing Center of Marine Life-saving Appliances, China.

Tests carried out

Tested acc. to EN 137 (2006), EN 136 (1998) including AC (2003) and ISO 23269-2:2011

Marking of product

The product is to be marked in accordance with and ISO 23269-2 §9 and with name and address of manufacturer, type designation, fire technical rating and MED Mark of Conformity (see first page).

The compressed air cylinder markings shall include the charging pressure, capacity and the stamp of the authorised inspection body.