

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)
RHZK5/30, RHZK6/30 and RHZKF6.8/30

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/3.7. SOLAS 74 as amended, Regulation II-2/10 & X/3, 2000 HSC Code 7, FSS Code 3, IBC Code 14, IGC Code 14 and IMO MSC.1/Circ.1499

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

This Certificate is valid until **2023-03-28**.

Issued at **Hamburg** on **2018-03-29**

DNV GL local station:
Nantong

Approval Engineer:
Timo Linn



Notified Body
No.: **0098**

for **DNV GL SE**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"RHZK5/30, RHZK6/30, RHZK6.8/30"

are self-contained compressed-air-operated breathing apparatus for shipboard use for fire-fighters.

Principle components:

- a) Full face mask "DFMZ-I", manufactured by the applicant (see Page 1),
- b) Air supply valve,
- c) Cylinder valve and pressure reducer,
- d) Electrical pressure gauge and rest air warning system acc. to IMO Res. MSC.339(91), in conjunction with IMO SC.1/Circ.1499
- e) Back-frame and harness,
- f) Compressed air cylinder manufactured by "Shanghai High Pressure Special Gas Cylinder Co., Ltd" or "Nanjing Banqiao Fire Fighting Equipment Co., Ltd.": - RHZK5/30, steel (Volume 5 L), - RHZK6/30, steel (Volume 6L), or compressed air cylinder, manufactured by "Zhejiang KaiboPressure vessel Co., Ltd": - RHZK6.8/30, carbon fibre composite (Volume 6.8 L).

Maximum working pressure 30MPa.

Application/Limitation

This certificate is based on the previous MED-B 59814-13 HH.

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

The apparatus is not for use in accidents with cargoes.

All air cylinders for breathing apparatus shall be interchangeable.

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 Nos.2012165, 2012166, 2012167 and 2012168 dated 2012-09-22./23. issued by Wuhan Testing Center of Marine Lifesaving Appliances, China.

Test Report No. 20151208 dated 2015-12-08 at Dongtai City Dongfang Marine Fitting Co., Ltd. witnessed by DNVGL Surveyor.

Tests carried out

Tested according to EN 137 (2006) and EN 136 (1998) including AC (1999) and AC (2003).

Marking of product

The product or is to be marked with name and address of manufacturer, type designation, fire-technical rating, the MED Mark of Conformity (see first page), EN 136:1998 incl. AC:2003 §9 and EN 137:2006 §8. The compressed air cylinder markings shall include the charging pressure, capacity and the stamp of the authorised inspection body.