DNV·GL

Certificate No:
MEDB00003AK

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)
HWAYAN/RHZK 6/30-W and HWAYAN/RHZK 6.8/30-W positive pressure fire-fighting air respirator with full face mask

Issued to
Jiangsu Huayan Marine Equipment Co., Ltd.
Jiangsu, 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 and IGC Code 14

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

This Certificate is valid until **2019-11-30**.

Issued at **Hamburg** on **2018-01-04**

DNV GL local station:
Nanjing CMC

Approval Engineer:
John Alan Walton

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"HWAYAN/RHZK 6/30-W and HWAYAN/RHZK 6.8/30-W positive pressure fire-fighting air respirator with full face mask" consisting of the following principle components:

a. Type HYM-I full face mask,
b. Air supply valve:
   - Type RHZK6/30-8A,
   - Type RHZK6/A-4 (acc. to test reports 2016158-1, 2017011, 2017013 and 2017188),
c. Pressure reducer,
d. Pressure indicator and warning devices as specified in IMO Res. MSC.339(91),
e. Compressed air cylinder:
   - HWAYAN/RHZK6/30-W, steel (volume: 6 litres),
   - HWAYAN/RHZK6.8/30-W, carbon fibre composite with aluminium liner (volume: 6.8 litres).
f. Compressed air cylinder valve,
g. Carrier and harness

Rated working pressure 300 bar.

For further details, see the documents listed under Type Examination documentation below.

Application/Limitation

Approved for use as self-contained compressed air breathing apparatus of fire-fighter's outfit.
This certificate is based on previously issued MED 13635 - 14 HH certificate.

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. 2003102, 2003103, 200703, 2011149 dated 20th of March 20, 2011150 dated 20th of March 2012, 2012073 dated 12th of May 2012 and 2013007 dated 10th of April 2013 all issued by Wuhan Testing Center of Marine Lifesaving Appliances, China.

Test Report No. 14061702 dated 17th of June 2014 issued by Jiangsu Huayan with supporting drawings and documentation.

Test Report Nos. 2016158-1 dated 2nd of December 2016, 2017011 and 2017013 both dated 1st of March 2017 and 2017188 dated 18th of November 2017 all issued by Wuhan Testing Center of Marine Lifesaving Appliances, China.

Instruction manual from the manufacturer dated 3rd of January 2018.

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.