



**EC TYPE EXAMINATION (MODULE B)  
CERTIFICATE No. MED122418WS/002**

*This is to certify that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2018/773.*

<i>MED Item N°</i>	<b>MED/3.7</b>
<i>Description</i>	<b>Self-contained compressed-air-operated breathing apparatus</b>
<i>Type</i>	<b>RHZK6-1; RHZK6.8-1</b>
<i>Applicant</i>	<b>JIANGSU DINGXIANG MARINE EQUIPMENT CO., LTD.</b> NO.77 XINJIAO ROAD, XINJIE TOWN DONGTAI, JIANGSU CHINA
<i>Testing standards</i>	<b>ISO 23269-2:2011 (fire fighting - maritime use only)</b>
<i>Reference standards</i>	<b>SOLAS 74 Reg.II-2/10, SOLAS 74 Reg.II-2/15, IMO Res.MSC.36(63)-(1994 HSC Code) 7, IMO Res.MSC.97(73)-(2000 HSC Code) 7, IMO Res.MSC.98(73)-(FSS Code) 3.</b>

*Issued in SHANGHAI on  
January 7, 2019*

*This Certificate is valid until  
January 6, 2024*

*This Certificate consists of this sheet plus an attachment*



*Zhang Hai Wen*

**Hai Wen Zhang**

*RINA Services S.p.A.*





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*Manufacturer*

JIANGSU DINGXIANG MARINE EQUIPMENT CO., LTD.

*Place of Manufacturer*

NO.77 XINJIAO ROAD  
XINJIE TOWN DONGTAI  
JIANGSU  
CHINA

*Name & place of Authorised Representative*

ANTONIO TRANI (FTTM SRL)  
VIA DOMENICO CIMAROSA NO.37, NAPOLI, ITALY

**Product Description**

Self-contained compressed-air-operated breathing apparatus is designed in two different version with the following main characteristics:

Module	Max Working Pressure	Volume	Air Deposit	Using Time	Weight (Kg)	Packing Size (mm)	Working Temperature Range
RHZK6-1	30 Mpa	6 L	1800 L	≥30 min	≤ 18	700 x 430 x 290	-30 °C to 60 °C
RHZK6.8-1	30 Mpa	6.8 L	2040 L	≥30 min	≤ 12	700 x 430 x 290	-30 °C to 60 °C

**Main Components**

Components	Model	Manufacturer
Pressure Cylinder	6 L or 6.8 L	Jiangsu Jiuwei High Pressure Vessel Manufacture Co., Ltd (6 L, Steel Cylinder) or Shenyang Zhougfu Kejin Pressure Vessels Co., Ltd (6.8 L, Fully Wrapped Composite Cylinder)
Air Cylinder Valve	--	Zhejiang Yu'an Fire Equipment Co., Ltd
Pressure Reducer	DSPR-1	Jiangsu Yigu Security Technology Co., Ltd
Air Supply Valve	DSG-1	Jiangsu Yigu Security Technology Co., Ltd
Full-face Mask	DSM-1	Jiangsu Yigu Security Technology Co., Ltd
Fireproof Lifeline	--	Jiangsu Huayan Marine Equipment Co., Ltd
Electrical Pressure Gauge and Rest Air Warning System, or Mechanical Pressure Gauge and Rest Air Warning System	--	Jiangsu Yigu Security Technology Co., Ltd
Back Frame and Harness	--	Jiangsu Yigu Security Technology Co., Ltd
SCBA Box	--	Jiangsu Dingxiang Marine Equipment Co., Ltd

Breathing Resistance at low temperatures: The exhalation resistance shall not exceed 1 kPa.

Breathing Resistance at high temperature: The exhalation resistance shall not exceed 1 kPa.

Breathing Resistance (Inhalation resistance, Exhalation resistance) has been tested according to EN 13274-3, method 2 (settings E and H shall be used).



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**Field of Application**

Self-contained compressed-air-operated breathing apparatus for shipboard use for fire-fighters, Type 1 mask shall not be used.

**Reference Documents**

Operation, Installation and Servicing Manual, filed by RINA with No. SHFP-12165;

Technical Specification, approved by RINA with No. SHFP-12166;

Bill of Material, approved by RINA with No. SHFP-12788;

Nameplate, approved by RINA with No. SHFP-12168;

Technical Drawing, approved by RINA with No.: SHFP-12177;

Gas Cylinder Certificate (6L) (Ref No.: 0036-021-16 Rev.0), filed by RINA with No.: SHFP-12176;

Gas Cylinder Certificate (6.8L) (Ref No.: CE-PED-B-ZKJ 002-15-CHN), filed by RINA with No.: SHFP-12175.

**Test Carried Out**

Test Report (Full Face Masks) (Ref No.: 2018042) issued by China Classification Society Wuhan Rules and Research Institute Testing Center of Marine Life-Saving Appliances and filed by RINA with No.: SHFP-12157;

Test Report (RHZK6.8-1, Ref No.:201818) issued by China Classification Society Wuhan Rules and Research Institute Testing Center of Marine Life-Saving Appliances and filed by RINA with No.: SHFP-12704;

Test Report (RHZK6-1, Ref No.:2018117) issued by China Classification Society Wuhan Rules and Research Institute Testing Center of Marine Life-Saving Appliances and filed by RINA with No.: SHFP-12703.

**Remarks**

Both types of SCBA have been designed in compliance with MSC.338(91) and MSC.339(91).

The SCBA can be equipped with different EC Type Approved Gas Cylinder of same capacity and Fireproof Lifeline in compliance with Directive 2014/90/EU as amended.

The breathing air shall comply with the requirements of EN 132. Each SCBA shall be marked according to ISO 23269-2:2011(E), Par.9. The markings shall be as required by the specified standards and shall also include the EC "Mark of Conformity" according to the Directive. The compressed air cylinder markings shall include the charging pressure, capacity and the stamp of the authorized inspection body.

Additional information shall be supplied by the manufacturer after delivery. 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 and storage shall be adhered to. Use and maintenance only by trained and qualified persons.



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*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 control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body*



XXXX/YYYY

**"WHEELMARK FORMAT"**

XXXX      *Notified Body number undertaking surveillance module*  
YYYY      *The year in which the mark is affixed*

**General conditions for the approval**

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.



*Zhang Hai Wen*  
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