



**EC TYPE EXAMINATION (MODULE B)**  
**CERTIFICATE No. MED012721WS**

***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) 2020/1170.*

*MED Item N°*

**MED/3.55**

*Description*

**Dual-purpose type nozzles (spray/jet type)**

*Type*

**QLD40J-1/12, QLD40J-1/16, QLD40J-1/19, QLD50J-1/12, QLD50J-1/16, QLD50J-1/19, QLD65J-1/12, QLD65J-1/16, QLD65J-1/19, QLD40J-1/12A, QLD40J-1/16A, QLD40J-1/19A, QLD50J-1/12A, QLD50J-1/16A, QLD50J-1/19A, QLD65J-1/12A, QLD65J-1/16A, QLD65J-1/19A**

*Applicant*

**JIANGSU HUAYAN MARINE EQUIPMENT CO.,LTD**

**NO.8 HUANGJINTANG WEST ROAD, ECONOMIC DEVELOPMENT ZONE  
DANYANG, JIANGSU**

**CHINA**

*Testing standards*

**EN 15182-1:2019, EN 15182-2:2019.**

*Reference standards*

**SOLAS 74 Reg.II-2/10, IMO Res.MSC.36(63)-(1994 HSC Code) 7, IMO Res.MSC.97(73)-(2000 HSC Code) 7.**

*Issued in* **SHANGHAI** *on*  
**January 24, 2021**

*This Certificate is valid until*  
**January 23, 2026**

*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 HUAYAN MARINE EQUIPMENT CO.,LTD**

*Place of Manufacturer*

NO.8 HUANGJINTANG WEST ROAD  
ECONOMIC DEVELOPMENT ZONE  
DANYANG  
JIANGSU  
CHINA

*Name & place of Authorised Representative*

Mrs. Anita Wesling  
Karl-Legien-Str.2, 45356 Essen, Germany  
GERMANY

**Product Description**

Dual-purpose Type Nozzles (Spray/Jet Type), is hand-held branchpipes (Type 1) for fire service use, and use smooth bore jet and/or one fixed spray jet angle branchpipes PN 16.

Type QLD40J-1/12~19, QLD50J-1/12~19, QLD65J-1/12~19: Long Length with External Thread

Type QLD40J-1/12A~19A, QLD50J-1/12A~19A & QLD65J-1/12A~19A: Short Length with Internal Thread

Type	Working Pressure	Nozzle Diameter	Flow Rate at Straight Jet (6 bar)	Effective Throw (6 bar)	Spray Angle (6 bar)	Mass (Kg)
QLD40J-1/12	6 bar	12 mm	216 L/min (*) 212.3 L/min (**)	28 m (*) 26 m (**)	>100°	1.12
QLD40J-1/16	6 bar	16 mm	285 L/min (*) 272.8 L/min (**)	33 m (*) 32 m (**)	>100°	1.12
QLD40J-1/19	6 bar	19 mm	294 L/min (*) 290.6 L/min (**)	35 m (*) 34 m (**)	>100°	1.12
QLD50J-1/12	6 bar	12 mm	223 L/min (*) 278.1 L/min (**)	29 m (*) 30 m (**)	>100°	1.57
QLD50J-1/16	6 bar	16 mm	362 L/min (*) 358.8 L/min (**)	35 m (*) 32 m (**)	>100°	1.57
QLD50J-1/19	6 bar	19 mm	384 L/min (*) 373.6 L/min (**)	37 m (*) 36 m (**)	>100°	1.57
QLD65J-1/12	6 bar	12 mm	229 L/min (*) 237.4 L/min (**)	30 m (*) 33 m (**)	>100°	2.35
QLD65J-1/16	6 bar	16 mm	412 L/min (*) 402.3 L/min (**)	40 m (*) 36 m (**)	>100°	2.35
QLD65J-1/19	6 bar	19 mm	525 L/min (*) 492.8 L/min (**)	41 m (*) 40 m (**)	>100°	2.35

Note:

\*: Data from Technical Parameters

\*\*: Data from Test Report



*Wesling*





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Type	Working Pressure	Nozzle Diameter	Flow Rate at Straight Jet (6 bar)	Effective Throw (6 bar)	Spray Angle (6 bar)	Mass (Kg)
QLD40J-1/12A	6 bar	12 mm	216 L/min (*) 212.3 L/min (**)	28 m (*) 26 m (**)	>100°	0.75
QLD40J-1/16A	6 bar	16 mm	285 L/min (*) 272.8 L/min (**)	33 m (*) 32 m (**)	>100°	0.75
QLD40J-1/19A	6 bar	19 mm	294 L/min (*) 290.6 L/min (**)	35 m (*) 34 m (**)	>100°	0.75
QLD50J-1/12A	6 bar	12 mm	223 L/min (*) 278.1 L/min (**)	29 m (*) 30 m (**)	>100°	1.04
QLD50J-1/16A	6 bar	16 mm	362 L/min (*) 358.8 L/min (**)	35 m (*) 32 m (**)	>100°	1.04
QLD50J-1/19A	6 bar	19 mm	384 L/min (*) 373.6 L/min (**)	37 m (*) 36 m (**)	>100°	1.04
QLD65J-1/12A	6 bar	12 mm	229 L/min (*) 237.4 L/min (**)	30 m (*) 33 m (**)	>100°	1.6
QLD65J-1/16A	6 bar	16 mm	412 L/min (*) 402.3 L/min (**)	40 m (*) 36 m (**)	>100°	1.6
QLD65J-1/19A	6 bar	19 mm	525 L/min (*) 492.8 L/min (**)	41 m (*) 40 m (**)	>100°	1.6
<b>Note:</b> *: Data from Technical Parameters      **: Data from Test Report						

**Field of Application**

Dual-purpose Type Nozzles (Spray/Jet type) to be used in conjunction with hoses for fire fighting purposes on board ships.

The dual-purpose type nozzle may be equipped with fixed couplings as well, if the operability of the nozzle is not impaired.

Each product is to be supplied with its manual for use and maintenance.

**Reference Documents**

- Technical Parameters, approved by RINA with No.: SHFP-17232 & 17233;
- Instruction and Maintenance Handbook, filed by RINA with No.: SHFP-17228 & 17229;
- Data Sheet, approved by RINA with No.: SHFP-17234 & 17235;
- Technical Drawing, approved by RINA with No.: SHFP-17236, 17237, 17238, 17239, 17240 & 17241.

**Tests Carried Out**

Relevant Performance Tests carried out and witnessed by RINA Surveyor, according to EN 15182-1:2019 & EN 15182-2:2019, please refer to below reports:

-Test Report (Type QLD40J-1/12A~19A, QLD50J-1/12A~19A, QLD65J-1/12A~19A) (Ref No.: 20201126-1), filed by RINA with No.: SHFP-17242.

-Test Report (Type QLD40J-1/12~19, QLD50J-1/12~19, QLD65J-1/12~19) (Ref No.: 20201126-2), filed by RINA with No.: SHFP-17243.



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**Remark**

The product is to be marked according to EN 15182-1:2019 Ch. 8.2 and in addition with the MED Mark of Conformity, Notified Body No. and the year of manufacturing.

Each branchpipe shall be delivered with an instruction and maintenance handbook, according to Ch. 8.1.2 & 8.1.3 of EN 15182-1:2019.

**Note**

For the Type QLD40J-1/12~19, QLD50J-1/12~19, QLD65J-1/12~19 (Long Length with External Thread), our review and approval is based on our previously approved drawings of Dual-purpose Type Nozzles (Spray/Jet type), refer to EC Type Examination (Module B) Certificate issued by RINA with No. MED114016WS on Oct 17, 2016, the initial certificate is renewed due to specified regulations/standards is amended. And comparing with initial condition, some modifications (QLD40J-1/12~19, QLD50J-1/12~19) were made and optimized due to process requirement, please refer to detail technical drawings. Thus, the initial certificate (MED114016WS) will be suspended accordingly.



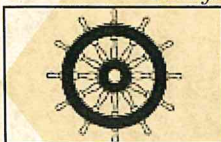
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*The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied with a written 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 Wen*  
Hai Wen Zhang

