



TYPE APPROVAL CERTIFICATE
No. FPE039418WS/001

This is to certify that the product identified below satisfies the requirements of the standard quoted under "Reference standard"

<i>Description</i>	PORTABLE FOAM APPLICATOR UNIT
<i>Type</i>	PQZ8.C
<i>Applicant</i>	JIANGSU HUAYAN MARINE EQUIPMENT CO.,LTD NO.8 HUANGJINTANG WEST ROAD, ECONOMIC DEVELOPMENT ZONE DANYANG, JIANGSU CHINA
<i>Manufacturer</i>	JIANGSU HUAYAN MARINE EQUIPMENT CO.,LTD
<i>Place of manufacture</i>	NO.8 HUANGJINTANG WEST ROAD, ECONOMIC DEVELOPMENT ZONE DANYANG, JIANGSU CHINA
<i>Reference standards</i>	IMO Res. MSC.98(73) FSS Code, Ch.4.3.2 as amended
<i>Reference documents</i>	Rules for Testing and Certification of Marine Materials and Equipment

Issued in **SHANGHAI** on **May 28, 2018.** This Certificate is valid until **May 27, 2023**



Zhang Hai Wen

RINA Services S.p.A.
Hai Wen Zhang

This certificate consists of this page and 1 enclosure



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PQZ8.C

Product Description

The Portable Foam Applicator Unit (Type: PQZ8.C) is consisting of a foam nozzle/branch pipe, quick connector, capable of being connected to the fire main by a fire hose, together with a portable tank containing at least 20 L of foam concentrate and one spare tank of foam concentrate of the same capacity.

Main Specifications:

- Working Pressure: 0.5 Mpa (Working Pressure Range: 0.3 Mpa ~ 0.8 Mpa)
- Ejection Distance: ≥ 22 m
- Foam Solution Flow Rate: $8\pm 8\%$ L/S ($480\pm 8\%$ L/min)
- Mixing Rate: 3.0 ~ 3.9%
- Foam Liquid: 3% Type Foam Mixture, type approved in accordance with rules
- Foam Expansion Rate: ≥ 5
- Material: Applicator, SUS304; Foam Tank, HDPE
- Portable Foam Tanks filled with foam liquid: Two Foam Tanks each containing 20 L approved foam concentrate

Field of Application

Portable Foam Applicator Unit capable of being connected to the fire main for discharging with a fire hose low-expansion foam in machinery space (Oil-fired boilers/ Internal combustion machinery and oil fuel units), Vehicle / Ro-Ro / Special Category spaces and similar fire hazard areas, also where requested by the Rules.

Reference Documents

- Portable Foam Applicator Unit Technical Standard, approved by RINA with No.: SHFP-11263;
- Portable Foam Nozzle Component List, filed by RINA with No.: SHFP-11264;
- Instruction Manual of Portable Foam Applicator Unit, filed by RINA with No.: SHFP-11265;
- Technical Drawing, approved by RINA with No.: SHFP-11267.

Tests Carried Out

Tests has been carried out in accordance with MSC.217(82), Ch.4, Sec 3 of FSS Code.

- Test Report (Ref No.:TBK20180131Lab20102E-2A), issued by Suzhou TBK Testing Technology Co., Ltd and filed by RINA with No.: SHFP-11266;
- Test Report (Ref No.:20180228-1), filed by RINA with No.: SHFP-11269.

Remarks

Foam concentrate have to be approved in accordance with relevant rules (Refer to the Guidelines for the performance and testing criteria and surveys of low-expansion foam concentrates for fixed fire- extinguishing systems).

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

The product is to be marked with name of manufacturer and type designation.

SHANGHAI May 28, 2018



A handwritten signature in black ink, appearing to be 'MRS', is written below the RINA logo.

