



Certificate No:
TAF00001SG

TYPE APPROVAL CERTIFICATE

This is to certify:

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

with type designation(s)
QLD50JJ/12, QLD50JJ/19

Issued to

Jiangsu Huayan Marine Equipment Co., Ltd.
Jiangsu, China

is found to comply with

DNV rules for classification – Ships

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.
Approved for use throughout the fire line.

Issued at **Hamburg** on **2022-11-10**

This Certificate is valid until **2027-11-09** .

DNV local unit: **Nanjing NB & CMC**

for **DNV**

Approval Engineer: **Frank Poetsch**

Sven Klinger
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 281

Revision: 2022-09

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Product description

The dual-purpose type nozzles QLD50JJ/12 and QLD50JJ/19 are hand-held combination branch pipes (nozzles) for fire service use.

Technical conformity according to EN 15182-1 : 2019 Portable equipment for projecting extinguishing agents supplied by firefighting pumps – Hand-held branch pipes for fire service use – Pt1 Common requirements and EN 15182-2 : 2019 Pt2 Combination branch pipes PN16.

Technical parameters:

Type	Pressure (bar)	Distance (m)	Flowing (L/min)	Spray Angle (°C)	Weight ±4% (kg)	Length ±5 (mm)	Type of spray
QLD50JJ/12	6	≥27	≥250	>100	1.3	160	Hollow cone spray combined with narrow spray jet
QLD50JJ/19	6	≥29	≥330	>100	1.3	160	

Nozzle connector: JIS50 coupling
Fitting system: swiveling
Material: lead brass
PN (bar): 16
Max. flow rate: <500 l/min
Temperature: -20°C (minimum ambient temperature, normal condition)
Applicable media: water or seawater

Application/Limitation

The hand-held combination branch pipes are dual-purpose type nozzles (spray/jet type) for a fixed system. The nozzles are part of the "Fire and Rescue Service Equipment". A fixed system is a manually operated unit installed on board in order to make it possible for the occupants to control and extinguish a small fire. The fixed units are to be composed of a coupling, a valve with a pressure indicator, a lay flat hose with its support and a nozzle.

Type Approval documentation

Tests carried out

According test standard EN 15182-1:2019 and EN 15182-2:2019; Dual-purpose Type Nozzles (spray/jet type) - Test Report – Serial No. 20220929, status: witnessed by DNV surveyor, 2022-09-30.

Marking of product

The products are to be marked according EN 15182-1 Pt. 8.2 (Nameplate).

Periodical assessment

For retention of the Type Approval, a DNV-Surveyor shall perform periodical assessment as per DNV-CP-0338 (2021) Sec.4 to verify that the conditions for the Type Approval are complied with. Periodical assessments for type approvals with a validity period of five years will be required after two years (+/- 90 days) and after 3.5 years (+/- 90 days).

End of certificate