

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Water Mist Lance

with type designation(s)
X-Lance - WML25-S

Issued to

Tanktech Co., Ltd.
Busan, Republic of Korea

is found to comply with
DNV GL offshore standards
DNV GL rules for classification – Ships
DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations

Application :

Approved as a water mist lance in accordance to SOLAS II-2 Reg. 10.7.3.1.1.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2017-09-05**.

Issued at **Høvik** on **2016-09-06**

DNV GL local station: **Pusan**

for **DNV GL**

Approval Engineer: **Piotr Orzechowski**

Petter Langnes
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.

Product description

"X-Lance - WML25-S"

composed of impact hammer, spray gun and lance section with water mist nozzle.

Flow rate	1.2 m ³ /h
k-factor	10 lpm/bar ^{0,5}
Minimum working pressure	4 bar
Rated pressure	12 bar
Throw range	6 m
Spray angle	120°
Body material	SUS316
Weight	3.2 kg
Length of spray gun	700 mm

Application/Limitation

Approved as a water mist lance in accordance to SOLAS II-2 Reg. 10.7.3.1.1.

The Water Mist Lance shall be equipped with a coupling allowing connection to the vessel's fire hydrants by fire hose. The coupling is to be sized for the proper flow and pressure performance of the lance.

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

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, October 2015.

Inspection and test plan No. XM-TA-WM-ITP-RO-00 Rev.0 dated 11 April 2016 from manufacturer.

Inspection report No. TKT-TA01 dated 11 April 2016 from manufacturer.

Engineering Specification No. XM-TA-WM-00 Rev. 0 dated 11 April 2016 from manufacturer.

Instruction Manual Ver. 0 from manufacturer.

Tests carried out

Discharge coefficient /characteristic, Range, Leak test.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation, working pressure, rated pressure and flow rate.

Periodical assessment

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate. The arrangement is to be in accordance with procedure described in DNVGL-CP-0338 Section 4.