

# Operating and Maintenance Instructions



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## NOTICE

Before installing and operating this equipment, read & study this manual. The following prints should be adhered to in order to ensure the safety of equipment and personal.

### 1. Product Warning

- All personal that may be expected to use this unit must be thoroughly trained in its safe and proper use.
- Become thoroughly familiar with the hydraulic characteristics of this equipment, and the pumping system used to supply it. To produce effective fire streams operating personnel must be properly trained.
- Always open and close shut-off valve slowly. Sudden opening or closing of shutoff valves can cause water hammer and subsequent damage to hose or couplings.
- Incorrect hose layout may cause instability.
- For use with water.
- Charge hose slowly to prevent water hammer action.
- Protect the Lance tip.
- After use, and on a scheduled basis, inspect the monitor per instruction in section 5. *Maintenance*

### 2. Product Description

- Type : Water Mist Lance
- Model : NVT-WM-Lance
- Working pressure : Max.20 bar
- Connection : 1" PT or required coupling
- Overall dimension : L530mm x W150mm x D28mm
- Weight : Approx. 2 kg without coupling
- Material : Body – Stainless Steel 316

- Type : Hammer
- Model : Special Hammer
- Overall dimension : L480mm x W165mm
- Weight : Approx. 2.8 kg
- Material : Body – Galvanized Steel / Hand Grip : Rubber

#### • Features

- NVT-WM-Lance consists of a tube with a piercing nozzle which is capable of penetrating a container wall and producing a water mist inside the container when connected to the fire main.



• Performance ;

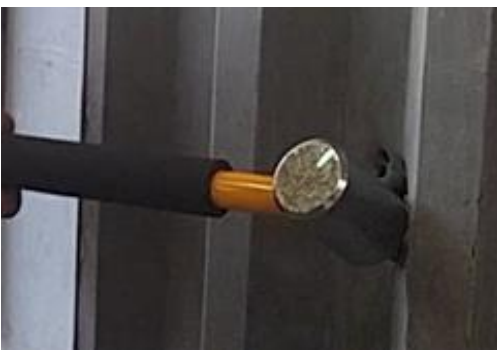
K-Factor : 34.6 ±5%

Inlet Pressure	Flow Rate	Discharge Length
4 bar	71.89 L/min	10 m
5 bar	79.78 L/min	10 m
6 bar	84.03 L/min	10 m
7 bar	89.49 L/min	11 m
8 bar	97.95 L/min	12 m

### 3. Operation Instruction



Punch on container wall by special hammer.



Move up and down or zigzag to make a hole bigger with a hammer.



Put in the sharp point nozzle of lance to the hole.



Open shut-off valve to shoot the water to the container inside.



Hit the back part of lance using the hammer when lance needs to enter much deeper.

#### **4. Assembly with Coupling**

For leak tightness, we recommend using a sealant such as thread sealant or Teflon tape.

#### **5. Maintenance**

The following maintenance procedure will extend the service life of NVT WM-Lance.

- **After use**

Flush out dirt with fresh water after each use.

Dry NVT WM-Lance before storage.

If any parts do not function properly, contact Navutec Co., Ltd. for repair instruction.

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