



# DET NORSKE VERITAS

## TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. F-19122  
This Certificate consists of 3 pages

*This is to certify that the*  
**Combined Jet/Spray Water Nozzle**

*with type designation(s)*  
**UNIFIRE TYPE V**

*Holder of Certificate*  
**Unifire AB**  
KUNGÄLV, Sweden

*is found to comply with*  
Det Norske Veritas' Rules for Classification of Ships  
Det Norske Veritas' Offshore Standards  
Det Norske Veritas' Interpretation of SOLAS 1974 Convention as Amended

*Application*  
The types V-12 mm, V-14 mm, V-16 mm, V-18 mm and V-20 mm are approved throughout the fire line except for hose reels in accommodation. See applicaion/limitations on page 2.

*Place and date*  
Høvik, 2009-10-01  
for DET NORSKE VERITAS AS

Petter Langnes  
*Head of Section*



*Local Office*  
DNV Gothenburg

*This Certificate is valid until*  
2013-12-31

Rolf Emilsen  
*Surveyor*

Notice: 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.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: F-19122  
File No.: 475.12  
Job Id.: 262.1-000216-2

### Product description

Unifire Type V''  
is composed of multipurpose nozzle of opening sizes: 7, 10, 12, 14, 16, 18 or 20 mm Ø  
with adjustable nozzle valve.

### Manufactured by

Holmgrens Metall AB, Gnosjö, Sweden

### Responsibility

The Holder of Certificate takes the sole responsibility for the products' compliance to DNV Rules (design and manufacturing) and take necessary action if for example, changes of design and production of the product are made.

### Application/Limitations

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

Types V-7mm and V-10 mm are not to be used for fire hoses as required by SOLAS (Chapter II-2, Reg. 10 item 2.3.3) , but may be used in fire line installed as supplementary equipment and onboard vessels with DNV class Notation F-A.

### Type Approval documentation

Certification in accordance with Standard for Certification Note No. 1.2, Type Approval, April 2009.

Test report No. 7813.511, dated 15th August 1979 and 7813.511D, dated December 1979 from Statens Provningsanstalt, Borås, Sweden.

Function test GOT 010210 dated 24 September 2001 from DNV Gothenburg.

Certificate Retention Survey Report dated 12 August 2009 from DNV Gothenburg.

Tested according to EN 671-2:2001.



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**Marking of product**

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

**Certificate retention survey**

Det Norske Veritas' surveyor is to be given permission to perform Certification Retention Surveys at any time during the validity period of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in item Standard for Certification No., 1.2 item 4.

END OF CERTIFICATE

