

CERTIFICATE OF FIRE APPROVAL

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	Unifire AB
Address	Bultgatan 40B 442 40 Kungälv Sweden
Type	HOSE NOZZLE
Description	Hose Nozzle – Type: 'UNIFIRE V' combined Jet/Spray (sizes: 7, 10, 12, 14, 16, 18 and 20mm diameter)
Specified Standard	Performance Testing in accordance with SOLAS II-2 Regulation 10.2.1.6 and 2.3.1 - Pressure Range: 2.1 – 3.1 bar

The attached Design Appraisal Document forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Date of issue 21 September 2009 Expiry date 20 September 2014

Certificate No. SAS F090305

Signed

A red rectangular stamp from Lloyd's Register EMEA is placed over the signature. The stamp contains the text 'Lloyd's Register EMEA' and 'Surveyor to Lloyd's Register EMEA'. The signature 'P. Galbraith' is written in blue ink over the stamp.

Sheet No 1 of 2

Name

P. Galbraith
Surveyor to Lloyd's Register EMEA
A Member of the Lloyd's Register Group

Note:

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid Certificate.

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

DESIGN APPRAISAL DOCUMENT

Date 21 September 2009	Quote this reference on all future communications LDSS/SFS/TA/PG
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F090305

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Svenska Skumsläcknings Aktiebolaget, Solna, Sweden, Test Report No. 76/88, dated 13 May 1976.

CONDITIONS OF CERTIFICATION

1. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype.
2. Minimum operating pressure shall be 2.1 bar.

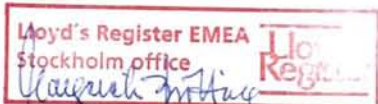
NOTE

1. The capacity and characteristics of the Nozzle are as follows for type V12 are noted as follows:

Pressure (bar)	Capacities		Range of Jet at + 30 Degrees (m)
	Jet (l/min)	Spread (l/min)	
2.1	155	254	16
2.6	173	294	18
2.8	176	302	19
3.1	183	316	20

PLACE OF PRODUCTION

Holmgrens Metal AB
 Stenblocksvagen
 33523 Gnosjö
 Sweden



Endorsed 2009-11-24

P. Galbraith

P. Galbraith
 Lead Specialist
 Statutory Fire & Safety
 London Design Support Services
 Lloyd's Register EMEA

Supplementary Type Approval Terms and Conditions

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).