



MARINE DIVISION

Certificate number: 11799/C0 BV

File number: ACM 135/2022/006

Product code: 2103I

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**TUBIFLEX SPA**  
ORBASSANO -TO - ITALY

*for the type of product*

### METALLIC HOSES (FLEXIBLE PIPES) ASSEMBLIES

High Pressure Hose assembly Type AT.M.1050.24.XXX; AT.T.1050.24.XXX  
High Pressure Hose assembly Type SP.M.5750S.24.008; SP.T.5750S.24.008

**Requirements:**

- BUREAU VERITAS Rules for the Classification of Steel Ships
- BUREAU VERITAS Rules for the Classification of Offshore Units

*This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 12 Apr 2018**

**For BUREAU VERITAS,**

At BV GENOA, on 12 Apr 2013,

Carlo Bozzetti



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION

High pressure hoses intended for sprinkler systems

#### 1.1 Ratings

Size (mm)	DN 8	DN 10, DN 12, DN 16
Maximum working pressure (bar)	140	90
Stand-by pressure (bar)	20	20
Maximum working temperature (°C)	35	35

#### 1.2 Material specification

Hose	AISI 316L / 1.4404 EN 10028-7
Braiding	AISI 304 / 1.4301 EN 10088
Ferrules	AISI 304 / 1.4301 EN 10217-7
End connections	Carbon steel or stainless steel

### 2. DOCUMENTS AND DRAWINGS

Drawings PS 3008000 (31/07/2001) and PS 3476000 (09/05/2007)

### 3. TEST REPORTS

Report N° 2648 dated 25/09/2001 and N° 2922 dated 25/09/2007

### 4. APPLICATION / LIMITATION

4.1 May be used on the following service on board:

- Sprinkler / Hi-Fog

4.2 They are designed exclusively for static use, with occasional movements.

4.3 The hoses are to be so arranged as to be accessible at all times.

4.4 The hose assemblies are to be installed according to manufacturer's instructions and Bureau Veritas Rules requirements.

### 5. PRODUCTION SURVEY REQUIREMENTS

5.1 The products are to be supervised by TUBIFLEX SPA in compliance with the type and the requirements described in this certificate.

5.2 This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 BV product certificate is required.

5.4 Each hose with end fittings is to be hydraulically pressure tested to twice the maximum working pressure and provided with the manufacturer's pressure test report and conformity of production.

### 6. MARKING OF PRODUCT

Each hose is to be clearly and indelibly marked with at least:

- Manufacture's name or logo

- Type designation

- Date of manufacture

- PN and DN

- Society's brand as relevant

### 7. OTHERS

7.1 This approval is given on the understanding that the manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper method of fitting and general maintenance of the approved products and of the conditions of this approval.

7.2 This certificate supersedes the Type Approval certificate N° 11799/B0 BV issued on 26/05/2008 by this Society.

\*\*\* END OF CERTIFICATE \*\*\*