

TYPE APPROVAL CERTIFICATE

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No.	12 393 - 98 HH
Company	TUBIFLEX S.P.A. Strada Torino, 25 10043 Orbassano (To), ITALY
Product Description	Multilayer Convuluted PTFE Hose
Type	Tubiflon TX.T.8850.50.XXX, TX.T.8850.51.XXX, TX.T.885V.XX.XXX, TX.T.885S.XX.XXX
Environmental Category	None
Technical Data / Range of Application	TECHNICAL DATA TXT.T.8850.50.XXX Convuluted white PTFE hose with external fibreglass fabric with one st.st. wire braiding (1.4301 EN10088-3, AISI304) TXT.T.8850.51.XXX Same as TXT.T.8850.50.XXX but with inner layer of conductive (black) PTFE TX.T.885V.XX.XXX, TX.T.885S.XX.XXX Same design as TX.T.8850.550/51 plus external flameproof fibreglass sleeve (V) or flameproof silicone fibreglass sleeve (S) Continues on page 2. Range of Application Refer to page 2.
Test Standard	GL VI - 7- 8 - Guidelines for the Performance of Type Approvals, Test Requirements for Components and Systems of Mechanical Engineering:2008
Documents	- Fire resistance test reports issued by WTD 71in 1998 and LAPI in 2008 - Test reports Ministero dell' Interno, dated 12 May 1997 - Technical specification D10 - Hose end fittings specification G120
Remarks	Refer to page 2.

Valid until **2019-01-24**

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File No. **II.D.02**

Hamburg, 2014-05-26

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RANGE OF APPLICATION

The TXT hoses are type approved for manufacturing of hose assemblies intended to be used in in the following piping systems:

- fuel-, lubricating oil- and hydraulic oil system return line
- bilge-, ballast-, fresh water cooling-, sea water cooling
- wet fire extinguishing system, compressed air-, auxiliary steam (pipe class III).

Size range: 3 / 8" to 3" correspond to 10 mm to 76,5 mm
 Working pressure PN 125 [bar] to 20 [bar] depending on hose size
 Temperature range: - 20 [°C] to 205 [°C]

Remarks

Working pressure (PN) indicated above are based on room temperature, for assemblies manufactured with Tubiflex standard fittings. With PTFE coated fittings these values must be reduced to 50% (no further reduction coefficients applies)

For continuous use at temperatures over 170° the following de rating factors applies:

170°C - 0,85 PN
 180°C - 0,75 PN
 205°C - 0,50 PN

Hose assemblies are to be produced by manufacturers approved by DNVGL SE Hamburg.
 Refer to GL Rules I-1-2 Machinery Installation Section 11U.

Hose types with inner layer in conductive PTFE , Type TX.T.8850.51.XXX, are advised where due to the nature and speed of the fluid, electrostatic charges might damage the hose or may generate hazardous situation.

LIMITATIONS

Hose assemblies shall only be used where necessary to accommodate relative movement between fixed piping and machinery parts.

The use in starting air lines permanently under pressure and high pressure fuel injection piping systems of combustion engines is not permitted.

Application in piping system with the presence of frequent pressure pulses are not included in this type approval and are subject to case by case approval.

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