DNV·GL

Certificate No:
MEDB00000YE

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Materials other than steel for pipes conveying oil or fuel oil: flexible pipe assemblies

with type designation(s)
PTFE hose assembly

Issued to
DUNLOP HIFLEX OY
Vantaa, Finland

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.15c and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/4.2.2.5.1, II-2/4.2.2.5.6 & X/3 and 2000 HSC Code 7.5.4.

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-04-21**.

Issued at **Høvik** on **2016-04-22**

DNV GL local station:
Turku

Approval Engineer:
Adel Samiei

Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

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Product description

Dunlop Hiflex type designation: 11-8850T.
The hose is a Tubiflex Tubiflon TX T 8850.50 Teflon hose with Dunlop Hiflex 50-serie fittings.
Reinforcement: One layer of stainless steel wire braid made from AISI 302 or 304.
The hose is protected by an Insulflex red fire sleeve

Application/Limitation

Hose assemblies covered by this certificate are tested according to:

1) NS-EN ISO 15540: Fire resistance of hose assemblies- Test methods
2) NS-EN ISO 15541: Fire resistance of hose assemblies - Requirements for the test bench

The hose assemblies are approved to be used in fuel oil systems in temperature range of 0°C to 200°C and maximum working pressures as below:

Size (inch)	Maximum working pressure (bar)
3/8	125
½	105
5/8	100
¾	90
1	80
1 ¼	64
1 ½	53
2	35

Type Examination documentation

Tests carried out

Fire test according to ISO15540/15541

Marking of product

The products are at least to be marked with:

- Manufacturer's name or trade mark
- Type designation
- Maximum working pressure
- Size

Mark of conformity (“wheel-marking”) may be affixed to the packaging of the product, to a lable or to a leaflet.