

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Flexible Hoses and Hose assemblies of Non-Metallic Material**

with type designation(s)
HD, TW

issued to
ELAFLEX HIBY GmbH & Co. KG
Hamburg, Germany

is found to comply with
prEN 1761:2024-10-Draft Rubber hoses and hose assemblies for fuel truck delivery – Specification
EN 12115:2021 Rubber and thermoplastics hoses and hose assemblies for liquid or gaseous chemicals – Specification

Application:

Rubber hoses and hose reel assemblies for fuel truck delivery and for liquid or gaseous chemicals

Type:	Temperature range:	Max. working press.:	Sizes:
HD	-30°C up to +90°C	up to 20bar	DN10 - DN100
TW	-30°C up to +90°C	up to 16bar	DN19 - DN100

Issued at **Hamburg** on **2025-09-16**

This Certificate is valid until **2030-09-15**.

DNV local unit: **Essen**

Approval Engineer: **Hagen Markus**

for **DNV**



Digitally Signed By:
Sven Klinger
Location: DNV Hamburg,
Germany

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Rubber hoses and hose reel assemblies for fuel truck delivery and for liquid or gaseous chemicals.
 Reference: Elaflex catalogue “Petrol + Chemical Hoses, Section 1”:

Yellow band high pressure fuelling hose without helix for reel operation

Type HD

Lining : Nitrile rubber (NBR) black, no fuel-solubility
 Reinforcements : Two low tensile textile braids for extreme low volume increase under pressure.
 Cover : Chloroprene (CR), black, conductive

Yellow band smooth bore tank truck hose with kink resistant steel helix

Type TW

Lining : Nitrile rubber (NBR), black, no fuel solubility, electrically conductive
 Reinforcements : Textile braids with two crossed tinned copper strands and embedded non-kinking galvanised steel helix in the conductive layer
 Cover : Chloroprene (CR) black, conductive

Application/Limitation

Fuelling hoses

This Type Approval certificate is not valid for designs, components, equipment, systems or products which are subject to maritime classification by DNV.

Type Approval documentation

- Elaflex catalogue Petrol + Chemical hoses, Section 1, Revision 08.2025
- Assessment reports
 - Hose production site ContiTech, Korbach
 - Hose assembly production site ELAFLEX HIBY, Hamburg
- Burst pressure test carried out at ELAFLEX HIBY, Hamburg

Tests carried out

Type tests according to hose design standard EN 12115, EN 1761

Marking of product

Scope	Example
Hose assembly manufacturer	ELAFLEX  MADE IN GERMANY
Type	ELAFLEX HD
Design standard	EN 1761
Production date hose Quarter / Year	3Q-25

Periodical assessment

Not applicable.