

# TYPE APPROVAL CERTIFICATE

## This is to certify:

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

with type designation(s)  
**LPG 13, LPG 16, LPG 19, LPG 16 S**

Issued to  
**ELAFLEX HIBY GmbH & Co. KG**  
**Hamburg, Germany**

is found to comply with  
**EN 1762:2018 Rubber hoses and hose assemblies for liquefied petroleum gas, LPG (liquid or gaseous phase), and natural gas up to 25 bar (2,5 MPa) – Specification**  
**AS 1869.1:2023 Hose and hose assemblies for liquefied petroleum gases (LP Gas), natural gas and town gas, Part 1: Non-metallic liners**  
**AS 1869.0:2023 Hose and hose assemblies for liquefied petroleum gases (LP Gas), natural gas and town gas, Part 0: General requirements**

## Application :

**Hose Assemblies for L.P. Gas dispensers**

<b>Type:</b>	<b>Temperature range:</b>	<b>Max. working press.:</b>	<b>Sizes:</b>
<b>LPG 13, LPG 16, LPG 19</b>	<b>-40°C up to +70°C</b>	<b>25bar</b>	<b>DN13, DN16, DN19</b>
<b>LPG 16 S</b>	<b>-30°C up to +70°C</b>	<b>25bar</b>	<b>DN16</b>

Issued at **Hamburg** on **2023-09-14**

This Certificate is valid until **2028-09-13** .  
DNV local unit: **Hamburg – CMC North/East**

Approval Engineer: **Hagen Markus**

for **DNV**



Digitally Signed By: **Klinger, Sven**  
Location: **DNV GL SE Hamburg, Germany**  
Signing Date: **26.09.2023**

**Sven Klinger**  
**Head of Section**

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 300,000 USD.



**Product description**

Hose assemblies for L.P. Gas dispensers predominantly for propane, butane and their mixtures acc. to prEN 589:2023.

**Hose design**

Lining : NBR, black, seamlessly extruded, electrically dissipative, low permeation, plasticiser-free  
 Reinforcements : Low tensile textile braids with crossed tinned copper strands electrically connectable  
 Cover : CR, black or orange, smooth, abrasion resistant, highly ageing resistant. Type LPG 16 pricked.

Reference: Elaflex catalogue Section 1: Autogas Hoses, page 116

**Application/Limitation**

Hose Assemblies for L.P. Gas dispensers

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

**Type Approval documentation**

**Tests carried out**

Type tests according to hose design standard EN 1762:2018 and AS 1869.0/1:2023

**Marking of product**

Scope	Example
Hose	ELAFLEX  MADE IN GERMANY
Type	LPG 16
Design standard	EN 1762 AS 1869 Ω 25bar M
Production date hose Quarter / Year	08-23

**Periodical assessment**

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>