

# TYPE APPROVAL CERTIFICATE

Certificate no.:  
**TAP00001E2**  
Revision No:  
**1**

## This is to certify:

that the **Flexible Hoses of Non-Metallic Material with Permanently Fitted Couplings**

with type designation(s)  
**PL EFESTO SD 25**

issued to

**Ivg Colbachini S.p.A.**  
**Cervarese Santa Croce, PD, Italy**

is found to comply with

**DNV-OS-D101 – Marine and machinery systems and equipment, Edition July 2021**  
**DNV rules for classification – Ships Pt.4 Ch.6 Piping systems**  
**DNV class programme DNV-CP-0183 – Type approval – Flexible non-metallic hoses**

## Application:

Product(s) approved by this certificate is/are accepted for installation on vessels classed by DNV.

Temperature range: **-20°C to 82°C**  
Max. working press.: **25 bar(g)**  
Sizes: **3/4", 1", 2", 3", 4", 6" & 8"**

Issued at **Høvik** on **2025-07-17**

This Certificate is valid until **2030-03-11**.

DNV local unit: **Venice**

Approval Engineer: **Maheshraja Venkatesan**

for **DNV**



Digitally Signed By:  
**Bosman van der Merwe**  
Location: **DNV Høvik, Norway**

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.