



Certificate no.:
TAP00002YM

TYPE APPROVAL DESIGN CERTIFICATE

This is to certify:

that the **Fuel Oil Filter**

with type designation(s)
AFPS (Advanced Fuel Polishing System)

issued to

Filtration Group GmbH
Öhringen, Baden-Württemberg, Germany

is found to comply with

DNV rules for classification – Ships Pt.4 Ch.7 Pressure equipment

Application:

Max. working temp.: 45 °C
Max. working press.: 6 bar
Sizes: AFPS-1, AFPS-2, AFPS-3 and AFPS-4

Issued at **Hamburg** on **2025-10-16**

This Certificate is valid until **2030-10-15**.

for **DNV**

DNV local unit: **Augsburg**

Approval Engineer: **Le Loi Nguyen**

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

See approved drawing ("Type Approval documentation") for details (e.g. design data, materials, dimensions and media)

Application/Limitation

The AFPS filter (design pressure: 6 bar, design temperature: 45 °C, medium: see drawing AFPS) is approved according to DNV-RU-SHIP Pt.4 Ch.7 'Pressure Equipment' (Edition July 2021). It is graded as pressure equipment class III (Pt.4 Ch.7 Sec.1 table 2). The joint efficiency is $v=0.85$, the corrosion allowance is 1 mm.

All material used for pressurized parts shall be delivered with material certificates according to DNV-RU-SHIP Pt.4 Ch.7 Sec.1 Tab.7.

The materials used for pressurized parts shall conform DNV-RU-SHIP Pt.2 Ch.2 Sec.3. Manufacturing, workmanship and testing shall be done according to DNV-RU-SHIP Pt.4 Ch.7 Sec.7.

Tests carried out

Each AFPS filter, that requires an individual DNV survey manufactured in accord with this type approval is to be:

- Constructionally checked and hydraulic pressure tested 1.5 x design pressure,
- Certified by DNV and delivered with a product certificate.

Type Approval documentation