TYPE APPROVAL CERTIFICATE

Certificate no.:
TAP0000222
Revision No:
1

This is to certify:

that the Replacement Filter Elements for Single, Double and Automatic Filters

with type designation(s)
Screw-In Filter Elements, Plug-In Filter Elements, Plastic Filter Elements

issued to
Walter Stauffenberg GmbH & Co. KG
Werdohl, **Germany**

is found to comply with
Works Standard WS-1-0001 Filterkerzen – Walter Stauffenberg GmbH & Co. KG (see details inside certificate)

Application:

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

Max. working temp.:	**up to 150°C**
Working media:	**Refer to certificate**
Design pressure:	**up to 16bar**

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 300,000 USD.

Product description

Replacement filter elements for Single, Double and Automatic filters.

Materials

Element Type	Marking	Filter mesh	End Cap A	End Cap B	End Cap C	Support tube	Sealing
Screw-In	SFK-220/440/750G	1.4401 1.4404	1.4301	1.4301	1.4301	1.4316	NBR or FKM
	SFK-439						
Plug-In	SFK-220/440/750G						
Non-metallic	SFK-445	PP/PES	PAGF15	PAGF15	-	1.4316	
	SFK-320		PP	PP	-	PA66GF30	

Selection of materials

It shall be noted that the selection of the materials considers the applicable service condition with respect to type of media, flow velocity, media temperature and installation area of the piping system.
In particular, the resistance to corrosion, erosion, oxidation and other deterioration during projected service life are to be considered.

Sea water application

The term sea water application includes piping systems conveying sea water and piping systems installed on the open deck.

The stainless-steel materials 1.4571 (AISI 316Ti), 1.4404(AISI 316L) or 1.4401(AISI 316) are approved for sea water application.
Even the stainless-steel grade specified above cannot be considered immune to attack under all situations, avoidance of stagnant seawater conditions and removal of welding oxides after welding are some of the crucial factors to the successful use in piping systems for sea water and installation on open deck.

References:

- DNV-RU-SHIP Rules Pt.4 Ch.6 – Section 2 – Materials Table 1 and DNV-OS-D101 Ch.2 – Sec. 2 – Materials
- DNV-CG-0288 Corrosion protection of ships.

Dimensions

Element Type	Filter micron rating µm	Length mm
Screw-In	25, 31, 48, 60, 80, 100	220, 440, 750
Screw-In	6, 10	439
Plug-In	25, 31, 48, 60, 80, 100	220, 440, 750
Non-metallic	31, 48	445
	30	320

Application/Limitation

The filter elements of type SFK are type approved for replacement of filter elements for Single, Double and Automatic filters under consideration of the mechanical properties and long-term material resistance capability required for the intended application.

The selection of the filter elements for the corresponding application and the right installation are to be in accordance with the instructions www.filterinterchange.com of Walter Stauffenberg.

Service conditions and media

Maximum allowable working pressure	Up to 16bar
Maximum allowable working temperature	Metallic filter elements up to 150 °C Non-metallic filter elements up to 80 °C

Oils	Crude oil, Mineral oil, Synthetic oil, Hydraulic oil, Lubricating oil, Turbine oil
Fuel oil	Marine diesel, Petrol, Heavy fuel oil
Fresh water	Cooling water, Wash water, Wastewater, Industrial water
Chemicals	Cleaning agent, Alkaline
Coolants	Emulsion, cutting oil, honing oil, grinding oil

Type Approval documentation

TAP0000222, Revision 1
Work scope: Standard renewal without modifications, editorial update only.
Documents
Assessment report at production site at Werdohl, March 2025

Tests carried out

According to Walter Stauffenberg Test Report-No.: 15/2013, 2013-10-02
Test specification Walter Stauffenberg Werksstandard WS-1-001 Filterkerzen, Rev. C – 2022-12-16

Marking of product

Filter candle SFK
Labelling element
Endcap B: „STAUFF“-Logo imprinted, only the stylized clamp-symbol
Endcap C: „ Micron rating µm“ + „KWJJ“ with laser marked

Label
Label: STAUFF standard

Filter candle SFK#N
Labelling element
Endcap C: „ Micron rating µm“ + „KWJJ“ with laser marked

Label
Label: Neutral without Stauff-Logo

Periodical assessment

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment to verify that the conditions for the Type Approval are complied with. Refer to the Class Programme DNV-CP-0338, Sec.4.

To check the validity of this certificate, please look it up in https://approvalfinder.dnv.com

End of certificate