DNV·GL

Certificate No:
TAP0000222

TYPE APPROVAL CERTIFICATE

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 :

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

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

Issued at **Hamburg** on **2020-03-16**

This Certificate is valid until **2025-03-15** .
DNV GL local unit: **Essen**

Approval Engineer: **Hagen Markus**

for **DNV GL**
Digitally Signed By: Schuetz, Wolfgang
Location: DNV GL Hamburg, Germany
Signing Date: 20.03.2020 , on behalf of

Olaf Drews
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.

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	

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	Not applicable
Non-metallic	31, 48	445
	30	320

Application/Limitation

The filter elements of type SFK may be used 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.

Filter elements made of stainless steel 1.4301 and 1.4216 are considered not corrosion resistance to sea water.

In addition, it shall be noted that the selection of the materials shall always consider the applicable service condition with respect to type of media, flow velocity, media temperature.
In particular, the resistance to corrosion, erosion, oxidation and other deterioration during projected service life are to be considered.

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.

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. A – 2017-04-18
Published on http://www.stauff.com.

Service conditions and media

Maximum allowable working pressure	Up to 16bar
Maximum allowable working temperature	Up to 150 [°C], 80 [°C] (Filter elements made of non-metallic material)
Medias	
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

Test report

- Technical report A224, 2006-09

Drawings

Type	Marking	Drawing-No.:	Filter micron rating µm	Length mm
Screw-In Elements	SFK-220/ 440/750G	1050002216, Rev. 00, 18.07.2011	25, 31, 48, 60, 80, 100	220, 440, 750
Plug-In Elements	SFK-220/ 440/750G	1050002210, Rev. 00, 11.08.2009	25, 31, 48, 60, 80, 100	
Plastic Elements	SFK-320	1050002203, Rev. 02, 24.01.2013	30	320
Plastic Elements	SFK-445	1050002303, Rev. 00, 20.08.2013	31, 48	445
Screw-In Elements	SFK-439	1050002304, Rev. 03, 04.03.2014	6, 10	439

Miscellaneous document

- DNVGL Assessment report at Walter Stauffenberg GmbH Werdohl,2019-10-11
- STAUFF Werksstandard "WS-1-0001 Filterkerzen", 2017-04-21
- STAUFF Product specification for marking 1024000027, 2013-01-14
- STAUFF product specification "Replacement Filter Elements-English – 9910000178", 02/2019
- ISO 9001:2008, ISO 14001:2004, DNVGL-Rev-No.: 13-070312

Periodical Assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the Type Approval are complied with. Refer to the Class Programme DNVGL-CP-0338, Sec.4.

END OF CERTIFICATE