DNV·GL

Certificate No:
TAP000013E

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Fuel-, Lubricating- and Hydraulic Oil Filters

with type designation(s)
Simplex Low Pressure Filter Pi230 / Pi2300

Issued to
Filtration Group GmbH
Oehringen, Germany

is found to comply with
DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems
DNV GL rules for classification – Ships Pt.4 Ch.7 Pressure equipment

Application :

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

Max. working temp.:	**120 °C**
Max. working press.:	**25 bar**
Sizes:	**up to 800 liter / min**

Issued at **Hamburg** on **2017-10-19**
This Certificate is valid until **2022-10-18**.
DNV GL local station: **Augsburg**

Approval Engineer: **Christian Kaemmer**

for **DNV GL**

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.

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Product description

Simplex low pressure Filter consisting of a one piece body and a filter housing.

Part	**Material**
Cover	AC-46200 S F / EN AC-AlSi8Cu3 S F
Filter head	AC-42000 / EN AC-AlSi7Mg (T6)
Housing	AW-6060 / ALMgSi 0.5 F22 – 3.3206.71
Clamp	ENGJS-400-15
Sealing	NBR, FKM
Media	Diesel fuel oil, Marine diesel fuel oil, Hydraulic- and Lubricating oil
Pressure Equipment Class[1]	**Class I**, refer to DNVGL-Rules Part 4, Chapter 7, Section 1, Table 2

Application/Limitation

The simplex filter of types Pi230 / Pi2300 are type approved for application in piping systems arranged:

- outside machinery spaces of category "A".
- Inside machinery spaces of category "A", if the filter is attached to machinery. Refer to IACS SC 282:2016.

For the specific application of the filter, the installation requirements of DNVGL-rules Ships part 4 / chapter 6 are to be observed.

The operation and maintenance instructions of the manufacturer are to be observed.

Production testing

Upon completion, a product certificate (PC) is to be issued for each filter by DNVGL; refer to DNVGL-rules Part 4, Chapter 7, Section 1, Table 5.

Type Approval documentation

Tests carried out

Marking of product

For traceability to this type approval, each filter is to be marked with:

Manufacturer's name or trade mark
Filter type designation
Operating pressure [bar]
Operating temperature range [°C]
Job No. / Serial no.
Date of manufacture coded

Periodical assessment

For retention of the type approval certificate periodical assessments shall be carried out at production places by local DNVGL Surveyor.
Prior to the expiry date of this certificate a renewal assessment is to be carried out to verify that the conditions for the type approval are complied with and to witness burst pressure testing on select sizes.
The objective of the periodical assessment is to verify that the design and production conditions for the type approval have not been altered.
Main scope of the assessment:
- verification of the production and quality control system
- review of quality control documentation of recent deliveries
- review of drawings in production to verify any design changes which may have an impact on data specified in the type approval certificate, performance and range of application
- verification of the product marking.

End of certificate