DNV·GL

Certificate No:
TAP000028D

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Filter

with type designation(s)
1830 to 1846

Issued to
Georg Fischer JRG AG
Sissach, BL, Switzerland

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

Application :

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

Max. working temp.:	**up +70°C**
Working media:	**Water**
Design pressure:	**10bar**

Issued at **Hamburg** on **2020-12-17**
This Certificate is valid until **2025-12-16**.
DNV GL local station: **Essen**

Approval Engineer: **Hagen Markus**

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.

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Job Id: **262.1-033003-1**
Certificate No: **TAP000028D**

Product description
Fine filter for drinking water installation.

Reference, product "Data sheet JRG LegioStop Fine filter with by-pass, PN16".

Type	Catalog no.	DN	PN	Temperature range	Drawings	
Fine filter	1830	25 to 50	10bar	up to 30°C	DN25	1161200
	1836			up to 70°C[1]	DN32	JRG-079726
JRG LegioStop Fine filter with by-pass	1840			up to 30°C	DN40	1119528
	1846			up to 70°C[1]	DN50	JRG-036321

Notes
[1] Depending on types of filter elements

Materials	
Body / Housing	Gunmetal, Cu Sn5 Zn5 Pb2-C (CC499K)
Filter cup	Gunmetal, Cu Sn5 Zn5 Pb2-C (CC499K), Polyamide PA
Sealings / O-Rings	EPDM
Filter element types	1838: Various plastic materials
	1839: Stainless steel
Gaskets	PT0165/1

Application/Limitation
Hot and cold potable water, technical water and water heating systems.

Type Approval documentation

Tests carried out
Tightness test, Pressure and Burst pressure test witnessed by DNVGL surveyor.
Product test according to SVGW ZW 102/1 and 102/2.

Production testing
Each product will be tested according to JRG Directives and Working sheets.
Appropriate Test Report according to EN 10204-2.2 will be issued on request.

Marking of product

For traceability of the product to this type approval certificate each packaging unit and the product is to be marked at least with the scope specified in below table.

Packaging unit

Scope	Example
Manufacturers mark	+GF+ JRG
Filter type	1830.400
Nominal diameter	1”
Filter element	Plastic body, 100µm
Nominal pressure	PN16
Material body	CC499K
Batch No	141220

Product

Scope	Example	
	Filter housing (name plate)	Filter head
Manufacturers mark	+GF+ JRG	JRG
Flow direction	n.a.	Arrow
Nominal diameter	DN25-DN50	1 (inch)
Filter type	1830	n.a.
Filter element	1838, 100µm	
Nominal pressure	PN16	

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment to verify that the conditions for the Type Approval are complied with. Refer to the Class Programme DNVGL-CP-0338, Sec.4.
To check the validity of this certificate, please look it up in https://approvalfinder.dnvgl.com

End of certificate