DNV·GL

Certificate No:
TAP000028B

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Temperature regulator

with type designation(s)
JRGUTHERM, JRGUMAT

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
DNV GL class programme DNVGL-CP-0186 – Type approval – Valves

Application :

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

Temperature range:	**up to 90°C**
Max. working press.:	**10bar**
Sizes:	**up to DN80**

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: **262.1-033326-1**
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Product description

Thermostatic flow regulator valve of type JRGUTHERM and Thermostatic mixing valve of type JRGUMAT for drinking water installation.

Reference, product brochure "JRGUMAT – Thermostatic Mixing Valve" and "JRGUTHERM – Thermostatic flow regulator with threaded shut-off connections".

Materials		
Valve type	**JRGUMAT**	**JRGUTHERM**
Component	Material designation	Material designation
Body / Housing	Gunmetal, Cu Sn5 Zn5 Pb2-C (CC499K)	
Functional parts	1.4301, 1.4305, 1.4435, 1.4568	1.4305, 1.4435, 1.4568, 1.4310
Thermoelement	CW501L, CW724R	
Seals, O-Rings	EPDM	
Gasket	AFM 34/2	
Cylinder ring	PTFE	n.a.
Regulation bush	n.a.	CC499K

Design parameter					
Type	**Catalog no.**	**DN**	**PN**	**Temperature range**	**Drawing**
JRGUTHERM	6320	15, 20	10bar	up to 70°C	1129554, 1128865
JRGUMAT	3400	15 to 50		up to 90°C	1147488, 1147492
	3410	65, 80			1147511

Application/Limitation

Hot and cold potable water, technical water and water heating systems.
For installation and operation, the instruction manuals "JRGUMAT" and "JRGUTHERM" are to be observed.

Type Approval documentation

Tests carried out

Tightness test, Pressure and Burst pressure test witnessed by DNVGL surveyor.
Product test according to SVGW ZW 102

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 to be marked at least with the scope specified in below table.

Scope	Examples	
	Packaging unit	**Valve body**
Manufacturers mark	+GF+ JRG	n.a.
Valve type	JRGUMAT 3400.942 Thermoblending valve	JRGUMAT
Nominal diameter	DN32	32 – 11/4”
Nominal pressure	PN10	PN10
Material designation	CC499K	n.a.
Batch No	141220	

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