DNV·GL

Certificate No:
TAP0000287

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Safety Valve

with type designation(s)
JRGARANT 1025, JRGARANT 1028

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.

Type:	**K. factor:**
JRGARANT 1025	**not applicable**
JRGARANT 1028	**not applicable**

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: **262.1-032985-1**
Certificate No: **TAP0000287**

Product description
Pressure relief valve for water piping systems.

Reference, product brochure "JRGARANT – Technical Documentation"

Type	DN	PN	Inlet/ Outlet	Set pressure	Temperature range	Drawing
1025	15, 20, 25	6bar	R1/2", R3/4", R1"	6bar	up to 95°C	1099353, 1095579
1028		10bar		1bar up to 10bar		1136350

Materials			
Component	**Material designation**	**Material number**	**Standard**
Outer valve body	CuSn5Zn5Pb2-C-GS	CC 499K	EN 1982
Inner valve body	CuZn40Pb2	CW 617N	EN 12164
Valve seat	AISI 304	1.4301	EN 10270-3
Spring	AISI304	1.4301	EN 10270-3
	SH	n.a.	EN 10270-1
Soft seals (O-ring)	EPDM		
Membrane			

Application/Limitation
The JRGARANT JRG relief valves of type 1025 and 1028 are type approved for application in hot and cold potable water, technical water and water heating systems of pipe class III.

The relief valves are not approved for installation on pressure vessels.

Type Approval documentation

Tests carried out
Leak test with 24bar and burst pressure test

Type tests acc. to EN 1491:2000
Dimension and design check , Opening and closing characteristic, pressure and bending test on valve housing, opening and closing characteristic at nominal flow, Endurance test, Testing of manual lift device.

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
	1025.320
Manufacturers mark	+GF+ JRGARANT
Valve type designation	JRG1025.320
Nominal diameter	JRG20
Set pressure	6 bar
Housing material	CC499K
Nominal pressure	PN16
Month and year of production	06/2018
Batch No	041120

Product

Scope	Example
	1025.320
Manufacturers mark	JRG
Valve housing material	RG5
Flow direction	Arrow on the valve housing
Nominal diameter	20, 3/4

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