

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Check Valve

with type designation(s)
1610 to 1615

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: DN15 up to DN65

Issued at **Hamburg** on **2020-12-17**

This Certificate is valid until **2025-12-16**.

DNV GL local station: **Essen**

for **DNV GL**

Approval Engineer: **Hagen Markus**

.....
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.



Job Id: **262.1-033000-1**
Certificate No: **TAP000028A**

Product description

Non-return valve with test and drainage socket for drinking water installation.

Reference, product brochure "JRG valves with flange adapters".

Materials	
Body / Housing	Gunmetal, Cu Sn5 Zn5 Pb2-C (CC499K)
Valve cone	PPSU
Valve seat	1.4305
Spring	X10CrNi18-8
Sealings, O-rings	EPDM
Design parameter	
Nominal pressure	PN10
Opening pressure	<50mbar
Temperature range	Up to 90°C

1610 to 1615

Catalog no.	Valve body design	DN	Drawings
1610	Female thread	15 to 65	JRG-055018, 1090447
1611	Male thread		JRG-055049, JRG-073848
1612	Transition to JRG Sanipex MT on both sides	12 to 50	JRG-079603, JRG-049539
1614	Flange	40 to 65	1090458, 1090473
1615	Push-in system sudoFIT	15 to 50	JRG-079550, JRG-079563

Application/Limitation

Hot and cold potable water, technical water and water heating systems.

Type Approval documentation

Job Id: **262.1-033000-1**
Certificate No: **TAP000028A**

Tests carried out

Tightness test, Pressure and Burst pressure test witnessed by DNVGL surveyor.
Product test according to SVGW ZW 124, DVGW W 570-1 and 270 DIN EN 13959.

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.

Scope	Examples	
	Packaging unit	Product
Manufacturers mark	+GF+ JRG	JRG
Nominal pressure	PN16	PN16
Nominal diameter	½"	DN15
Valve type	Backflow preventer 1610.240	n.a.
Design standard reference	EN 13959, SVGW ZW 124, DVGW W 570-1	DIN, DVGW, PA-I
Valve housing material	CC499K	n.a.
Batch no	061120	

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