

TYPE APPROVAL CERTIFICATE

Certificate No:
TAK00000WG
Revision No:
5

This is to certify:

That the **Plastic Piping System, Thermoplastic**

with type designation(s)

INSTAFLEX Polybutylen (PB) - PN10 - Pipes, Fittings and Valves

Issued to

Georg Fischer JRG AG

Sissach, BL, Switzerland

is found to comply with

DNV rules for classification – Ships Pt.4 Ch.6 Piping systems

DNV class programme DNV-CP-0072 – Type approval – Thermoplastic piping systems

ISO 15876-2:2017 "Plastics piping systems for hot and cold water installations – Polybutene (PB) – Part 2: Pipes"

ISO 15876-3:2017 "Plastics piping systems for hot and cold water installations – Polybutene (PB) – Part 3: Fittings"

ISO 15876-5:2017 "Plastics piping systems for hot and cold water installations – Polybutene (PB) – Part 5: Fitness for purpose of the system"

Application :

External pressure resistance: 1.7bar (Collapse pressure 5bar)

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

Issued at **Hamburg** on **2023-02-17**

for **DNV**

This Certificate is valid until **2028-02-16**.

DNV local station: **Augsburg**

Approval Engineer: **Hagen Markus**

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Sven Klinger
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 AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") 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.

