Certificate No: LR22428149TA
Issue Date: 29/03/2022
Expiry Date: 28/03/2027

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**Georg Fischer JRG AG**
Address	Hauptstrasse 130, Sissach, 4450, Switzerland
Type	Plastic Pipes
Description	Plastic pipes (Multilayer) with plastic and metal fittings and valves Pipes: PE-X/AL/PE-X Fittings d16 – d63: PPSU/PA-GF Adapter d16 - d63: Gunmetal acc. to DIN EN 1982 Valve Bodies: Gunmetal, CuSn5Zn5Pb2C (CC499K), PVC-C type 546 ball valve with JRG Sanipex MT ends
Trade Name	JRG SANIPEX MT
Application	Non-essential hot water, cold water and service air piping systems on board ships, where fire endurance is not a requirement, according to the Rules, Part 5, Chapter 12, Table 12.5.3.
Specified Standard	Lloyd's Register Rules and Regulations for the Classification of Ships, July 2022. Flame spread test according to ASTM D635 External pressure test acc. ASTM D 2924

Downloaded Copy

Torsten Schroeder

Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Certificate No: LR22428149TA
Issue Date: 29/03/2022
Expiry Date: 28/03/2027

Type Approval Certificate

Ratings

Pipes and Fittings
Size Range: d16 mm to d63 mm outside diameter
Design Pressure, d16 mm to d63mm : 16 bar
Nominal External Pressure: 5,67 bar (Collapse Pressure: 17 bar)
Design Temperature : 70 °C

Valves

Type	Design Pressure [bar]	Design Temperature [°C]	Seal Material
1025	16	95	EPDM
1300 - 1363	16	70	EPDM
1610 - 1615	16	90	EPDM
1830 - 1846	16	70	EPDM
3400, 3410	16	90	EPDM
5200 - 5225	16	90	EPDM
5262 - 5281	16	90	EPDM
5350 - 5371	16	90	EPDM
6320	16	70	EPDM
546	16	80	EPDM/FKM

Other Conditions The use of plastic pipes may be restricted by statutory requirements of the National Authority of the country in which the ship is to be registered

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 12/20009(E4)

The Design Appraisal Document ENS 27735-12, issue No. 5 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Downloaded Copy

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.