Certificate No: LR22540772TA
Issue Date: 07/08/2022
Expiry Date: 06/08/2027

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 Piping Systems Ltd.**
Address	Ebnatstrasse 111, Schaffhausen, 8201, Switzerland
Type	Plastic Pipes
Description	Plastic pipes, fittings and valves
Trade Name	PVC-C Marine Grade
Application	Piping systems on open decks, within tanks, cofferdams,void spaces, pipe tunnels and ducts on board ships and offshore installations in Class III piping systems, where fire endurance is not a requirement,according to the Rules, Part 5, Chapter 12, Table 12.5.3 and domestic and other non- essential piping systems
Specified Standard	LR Rules and Regulations for the Classification of Ships, July 2022. IMO Resolution A.753 (18), MSC Resolution 399(95) except fire endurance, smoke generation and toxicity tests. Flame spread tests according to 2010 FTP Code, Annex 1, Part 5

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Ratings

Standard Dimension Ratio:	SDR 21	SDR 13.6	SDR 9
Size Range OD [mm]:	75 to 225	32 to 160	16 to 25

Nominal Internal Pressure : 10 bar
Nominal External Pressure : 1,66 bar (max. difference pressure)

Temperature Range: 0°C to 80°C

Other Conditions

At elevated temperatures higher than 20 °C pressure reductions have to be considered. For selection, installation and pressure reductions the producer`s instructions and recommendations are to be adhered to.
Pipe selection, installation, welding and bonding procedures are to be in accordance with the producer's instructions and recommendations.
Use in accommodation, service and control spaces may be subject to National Authority requirements.

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: 17/20086

The Design Appraisal Document HTS/ENS 36469-17, issue No. 1 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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