




# Type Approval Certificate

Germanischer Lloyd

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

Certificate No.	4334802 HH
Company	Georg Fischer spa. V. Sondrio 1 I-20063 Cernusco S/N (MI)
Product Description	THERMOPLASTIC PIPES AND FITTINGS
Type	+GF+ AQUASYSTEM PP-R piping system
Environmental Category	None
Technical Data / Range of Application	<b>TECHNICAL DATA</b> Size Range 20 [mm] O.D. to 110 [mm] O.D. Maximum allowable working pressure: 8 [bar], 16 [bar] Temperature Range 0 [°C] up to 95 [°C] [ Reduction of maximum allowable working pressure by service temperature above 20°C according to the specification of the manufacturer. ] <b>RANGE OF APPLICATION:</b> Hot and cold potable water, sanitary discharge and drain and heating systems according to IMO Res. 753 (18), Appendix 4, arranged within accommodation-, service- and control spaces, cofferdams, void spaces, pipe tunnels and ducts and further locations where fire endurance test according to the IMO Res. A.753 (18) is not required. <b>LIMITATION</b> The piping system is not approved for installation within tanks and open decks. <b>INSTALLATION</b> Refer to page 2
Test Standard	• IMO Resolution A.753 (18) except fire endurance, toxicity, and smoke generation test. Flame spread test acc. to ASTM D 635
Documents	• Test reports • Catalogue GF074(10/01) 2000Chiesa
Remarks	For the use on passenger vessels National Authority requirements may have to be observed.
Valid until	2007-10-10
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File No. II.C.04	
Hamburg, 2002-10-11	

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D. Roßmanith

H. Markus

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".



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## INSTALLATION

Fusion jointing of pipes and fittings and installation of the piping system is to be carried out in accordance with the instructions of the manufacturer respectively the installation requirements of the IMO Resolution 753 (18) as applicable.

Through watertight bulkheads and fire division GL type approved pipe penetrations are to be used.

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