



## Media release

Schaffhausen

29 April 2022

### **GF Piping Systems introduces HEAT-FIT: The pioneer fire retardant solution for thermoplastic piping systems in the shipbuilding industry**

**With HEAT-FIT, GF Piping Systems launches the first fire-retardant pipe jacket solution, an innovation to bring lightweight, corrosion-free thermoplastic piping systems for essential applications onboard.**

**HEAT-FIT will be presented at Seatrade Cruise Global in Miami between 25 and 28 April 2022.**

The demand for thermoplastic piping systems has grown considerably over the last few years. The extensive use of plastic piping can make ships more efficient while reducing costs. The newly developed HEAT-FIT Jacket System, allows thermoplastic piping systems to be used for essential applications (L3) onboard cruise ships, merchant vessels, and offshore platforms. These applications have especially high safety standards, including fire-resistance.

HEAT-FIT is designed to be compatible with the ecoFIT product family by GF Piping Systems, a range of polyethylene pipes and fittings for use in industrial applications and water and wastewater treatment. The new lightweight pipe jacket system consists of two layers of TPU. Between the TPU layers, HEAT-FIT features a high temperature fiberglass fabric which protects the pipe beneath, as well as an intumescent coating which is non-toxic and water-based, an environmentally safe material. In the event of a fire, this graphite char coating expands and creates a protective barrier. As a result, HEAT-FIT is capable of withstanding temperatures of up to 1000°C for 30 minutes at a pressure of 3 bar. The system can easily be installed and retrofitted without additional training and features a scratch and stain resistant coating especially developed for the demands of the harsh marine environment.

As part of its more than six years development phase, the HEAT-FIT fire-retardant system was subjected to a wide range of tests. These included fire resistance in accordance with the IMO Res. A753 fire endurance L3 Code, and surface flammability as well as smoke and toxicity in accordance with IMO Res. A653 2010, FTP Code Part 5 and Part 2. In addition, GF Piping Systems conducted waterproof testing in seawater, saltwater spray, and water contaminated with diesel fuel. The approval process for these tests is currently being overseen by the relevant governing bodies DNV, LR, RINA, ABS and Bureau Veritas.

Roberto Chiesa, Head of Business Development Marine at GF Piping Systems, comments the launch of the new piping system: "In the past, we have already shown that plastic piping systems can make ships more efficient. HEAT-FIT is the ideal solution to increase the efficiency of vessels. Another fantastic innovation our team created on our journey to a more sustainable world, improving energy efficiency for life."

**HEAT-FIT will be first presented to the public at Seatrade Cruise Global in Miami (USA), taking place on April 25 - 28, 2022. Visit us at booth #4233.**

**To be the first to learn more about HEAT-FIT before its official launch, sign up for the exclusive newsletter on: [www.gfps.com/heat-fit](http://www.gfps.com/heat-fit)**

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**About GF Piping Systems Ltd.**

As the leading flow solutions provider for the safe and sustainable transport of fluids, GF Piping Systems creates connections for life. The division focuses on industry-leading leak-free piping solutions for numerous demanding end-market segments. Its strong focus on customer-centricity and innovation is reflected by its global sales, service, and manufacturing footprint and its award-winning portfolio, including fittings, valves, pipes, automation, fabrication, and jointing technologies.

GF Piping Systems has its own sales companies in 31 countries, which means it is always by its customers' side. Production sites in 36 locations in America, Europe, and Asia ensure sufficient availability and quick, reliable delivery. In 2021, GF Piping Systems generated sales of CHF 1'971 million and employed 7'686 people. GF Piping Systems is a division of Georg Fischer AG, founded in 1802 and headquartered in Schaffhausen, Switzerland.  
[www.gfps.com](http://www.gfps.com)

## Pictures

	<p>HEAT-FIT Jacket System, composed of pipes, fittings, and valves being fire tested.</p> <p>Source: GF Piping Systems</p>
	<p>Andreas Faude, Product Manager GPM Systems at GF Piping Systems presenting the innovative HEAT-FIT Jacket System.</p> <p>Source: GF Piping Systems</p>
	<p>Roberto Chiesa, Head of Business Development Marine at GF Piping Systems, presenting the new HEAT-FIT.</p> <p>Source: GF Piping Systems</p>