

Shaping the future of energy

Corrosion-free piping systems
for conventional power plants



Corrosion-free, durable and cost-efficient installations for you

Based on our complete system approach, we offer over 20 different piping systems – each with unique mechanical and physical properties for your specific application requirements.

Today, GF Piping Systems meets the challenging needs of corrosion-resistant solutions for water and chemical conveyance with safe and environmentally friendly plastic solutions.

+ Key benefits of thermoplastics



Corrosion-free

- Product lifetime over 50 years*
- No incrustation thanks to smooth internal surface



Low material weight

- Low density – no machinery required to carry material
- Low anchor forces save installation costs



Chemical resistance

- Good compatibility with chemicals
- Most economical solution for your requirements



Low thermal conductivity

- Thermal insulation – no additional wrapping costs
- No corrosion due to less condensation and higher resistance results in cost savings



Low total cost of installation

- Reduced pipe sizes
- Reduced welding times

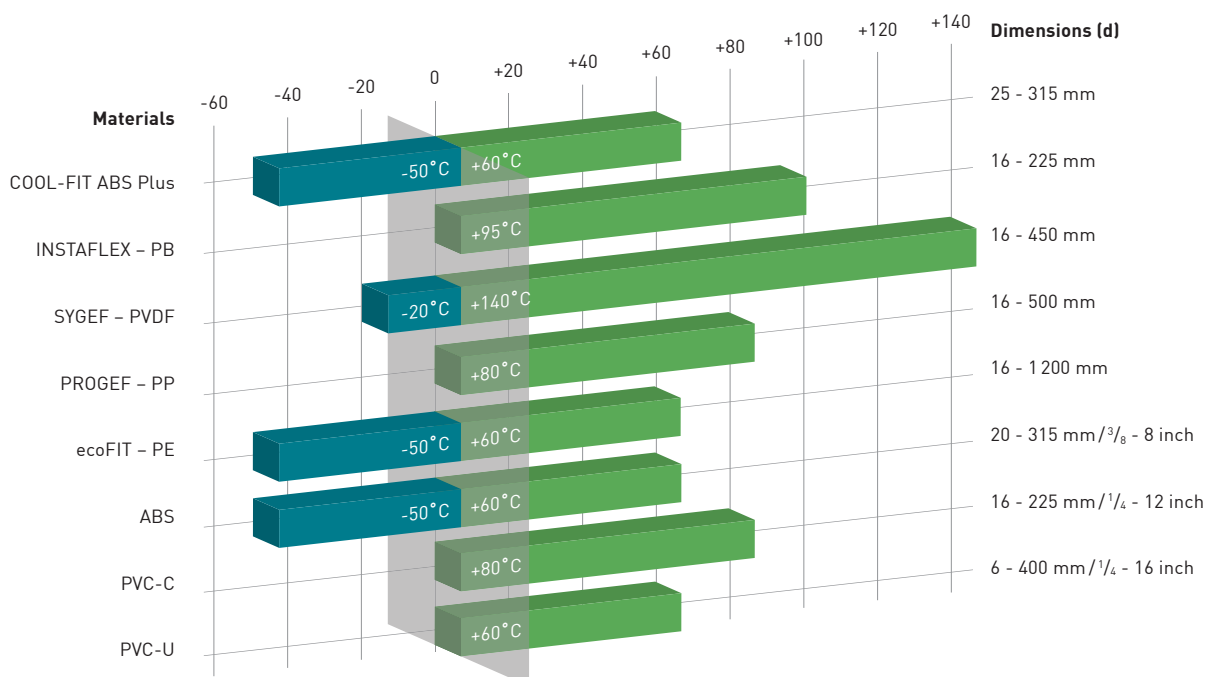


No electrical conductivity

- No corrosion
- No additional earthing required

*Detailed information regarding the warranty can be found under: www.gfps.com - Planning Fundamentals

+ Operating Temperatures (°C)



GF Piping Systems – over 200 years of know-how

Georg Fischer focuses on three core businesses: GF Piping Systems, GF Automotive and GF Machining Solutions. The industrial corporation, founded in 1802 and headquartered in Switzerland, operates approximately 130 companies with 14 000 employees in 30 countries. GF Piping Systems is a leading supplier of plastic and metal piping systems with global market presence. For the treatment and distribution of water and chemicals, as well as the safe transport of liquids and gases in industries, we have the corresponding jointing technologies, fittings, valves, automation products and pipes in our portfolio.

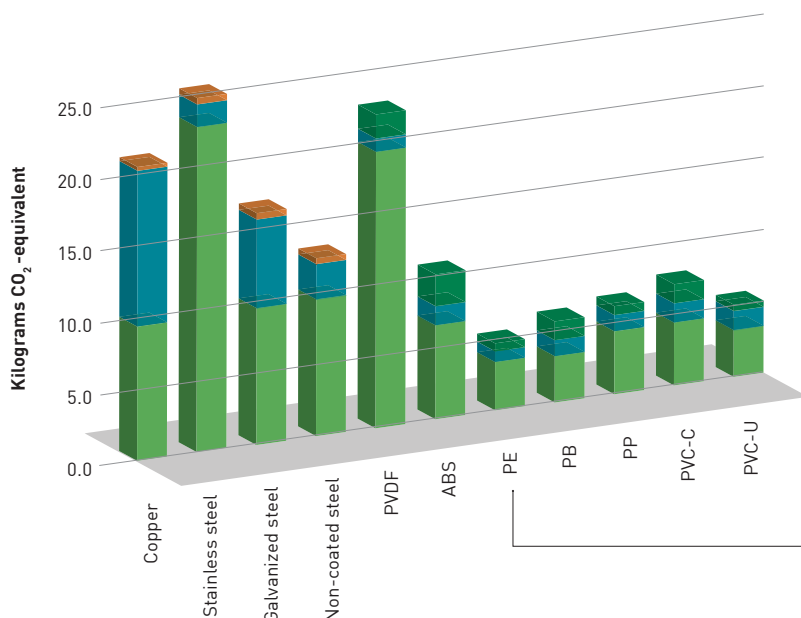
+ Sustainability

Energy and water are becoming scarcer and therefore more valuable resources. As a direct consequence of this development, a sustainable management of water and energy resources is increasingly important throughout all industrial segments and in private life.

As a leading supplier of complete solutions in plastic, GF Piping Systems sees transport and distribution of water and greater energy efficiency as the main challenges for the future.

Outstanding material properties and innovative system solutions form the basis for environmentally friendly, sustainable and, at the same time, cost-efficient, long-term performance.

By using ecoFIT we can save over 80 % of CO₂ emissions, when compared to metal alternatives.



■ Disposal
■ Transport
■ Production of pipes
■ Production of raw materials

CO₂ footprint of plastic and metal pipes (1-meter DN80 pipe) – comparison of various piping materials for building technology, industry and utility.

Study of S. Büsser and R. Frischknecht, ESU-services Ltd., commissioned by Georg Fischer Piping Systems, 2008.

ecoFIT (PE) = 84 % CO₂ SAVING

+ Global presence

Our global presence ensures that we are close to our customers, such as owners, contractors, consultants, distributor partners and installers. Sales companies in over 30 countries and representatives in another 80 countries provide service around the clock. With 50 production sites in Europe, Asia and the USA we understand market needs, such as local standards. We ensure the highest product availability and short delivery times. GF Piping Systems specialists are always close by.

Corrosion free piping systems for water and chemical applications in energy production

Industrial Cooling Water



01

Chemical Conveyance



02

Water Intake Lines



03

Flue Gas Desulfurization



04

Water Distribution



05

Gas Distribution



06

Fire Fighting



07

6, 7, 14

1, 2, 3, 5, 13

1, 2, 5, 7, 8

5, 7, 8, 13

3

10, 11, 12, 13, 14

9

09

10

11

12

13

14



Slurry Transfer



Water Treatment



Desalination



Makeup Water



Compressed Air



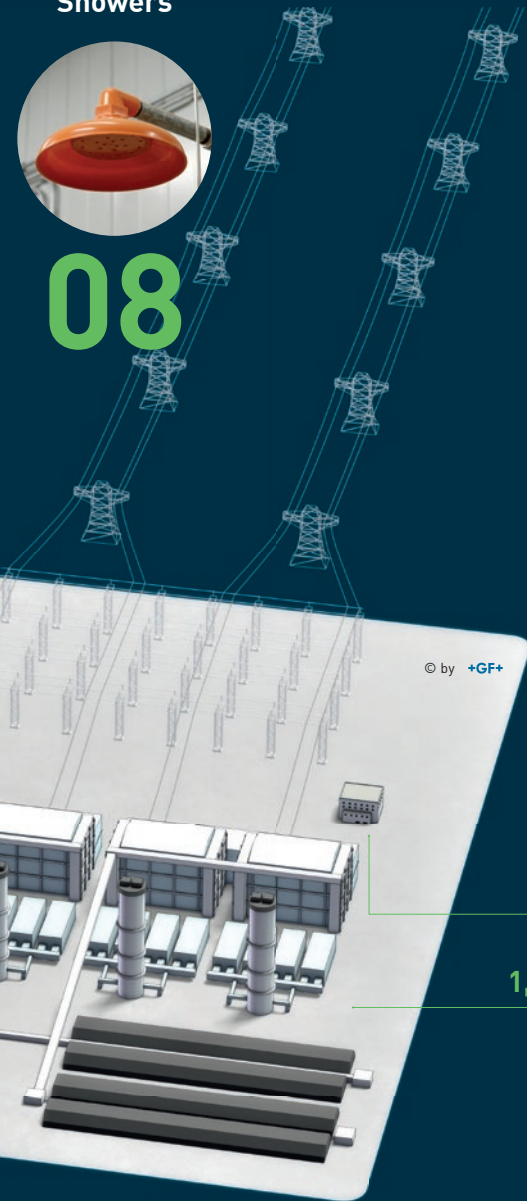
Hot & Cold Water in Buildings

Your benefits at a glance – making all the difference

Safety
Showers



08



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1

1, 4, 5, 7, 8, 13, 14

+ Thermoplastics

- Corrosion-free
- Chemical resistance
- Lower total cost of installation
- Low material weight
- Low thermal conductivity
- No electrical conductivity
- Low carbon and water footprint
- Material recyclability
- Reduced environmental impact
- Reduced health and safety concerns
- Comprehensive jointing techniques
- Global quality standards
ISO, BS, ASTM, JIS

+ Training & Support

- Global availability of products
- Local support by sales companies
- Professional on-site training
- Engineering design CAD data
- Planning documentation
- Online engineering support



Measurement,
Control
& Actuation

Value Added
Services

Maintenance &
Repair Products

Detailed information: www.gfps.com/energy

+GF+

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