

Plastic Piping Systems

→ Solutions for Food & Beverage

GF Piping Systems

Throughout the world everyone demands a secure supply of clean water. GF Piping Systems is meeting this challenge by providing complete piping systems suitable for safe operation in virtually all environments. We have developed systems comprising pipe, fittings, valves, and measuring and control devices in high quality corrosion resistant thermoplastics for the transport of not only clean water, but also gas and other industrial media.

Whether installed above or below ground, in industrial, commercial or domestic applications, GF Piping Systems provides a solution.

Innovation and technology.

GF Piping Systems, through focussed research, is continually developing new products and technologies, setting new global standards in quality and performance for our customers.

All from one source. GF Piping Systems covers the growing demand for complete solutions from a single source in a wide range of applications.

Quality management. All system components are stringently tested in accredited test laboratories. Management and production procedures are certified to ISO 9001 and ISO 14001 to guarantee form, fit, function and compliance in whatever application they may be used throughout the world.

Sales and service – worldwide.


Our local sales companies and representatives in over 100 countries provide "one stop" shopping, including planning support, training and product availability.

Facts and Figures. GF Piping Systems with its 4'000 employees achieves an annual turnover of about CHF 1'066 million. GF Piping Systems is part of the Georg Fischer Corporation, which was founded in Schaffhausen, Switzerland in 1802. Today the corporation has more than 12'000 employees and an annual turnover of CHF 3.0 billion.



→ Your benefits

- technological expertise
- «one stop» shopping
- premier quality and performance
- system solutions
- know-how and experience
- local support



Comfort → We bring you clean water



GEORG FISCHER
PIPING SYSTEMS

Food & Beverage

Freshness – an important topic in the food branch.

To offer your customers fresh and first-rate quality products, it is essential that the cooling chain performs properly. Especially in such a sensitive market as the food and beverage industry.

We have been working with cooling systems for over 20 years. GF Piping Systems offers experience accumulated over decades of realised projects with state-of-the-art, system-oriented solutions.

Your products are kept fresh and cool with plastic piping systems from GF Piping Systems.

→ Plastics can do more

Cooling and Refrigeration Plants
GF Piping Systems offers a complete and dedicated system solution to meet your exact needs. Reliable and efficient as a result of years of experience. What you can expect:

Corrosion-free. This guarantees efficiency, ensures low maintenance costs and a long service life (up to 25 years) for your plant.

High efficiency. Smooth inner surfaces guarantee good pressure loss characteristics as well as no encrustation on the internal surfaces of the pipe. The low heat conductivity of plastics helps improve efficiency due to low energy losses. All these characteristics lead to a low maintenance, highly efficient plant using GF Plastic Piping Systems.

Low installation costs and reduced down time.
We offer you system solutions designed for specific applications. For each application we have the right jointing technology to ensure low installation times and reduced down time costs.

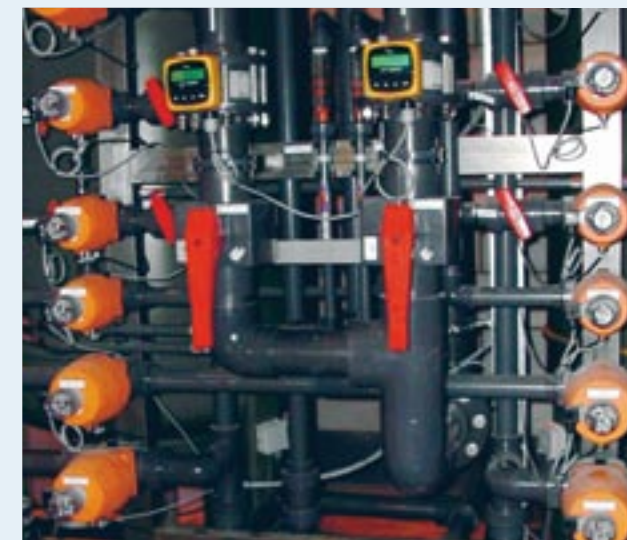
Refrigeration and cooling systems for cold stores, supermarkets and food & beverage productions...



...with **COOL-FIT**, the pre-insulated ABS pipes and fittings.



Water treatment in PVC-U, PVC-C, ABS, [β]-PP-H and SIGNET.





→ Your benefits at a glance

- weight reduction
- no corrosion
- reduced maintenance
- lower running costs
- FDA-listed and USP-conform material
- system solutions for specific applications

→ Applications – Materials – Systems

Process cooling. In accordance with your wishes or building restrictions, GF Piping Systems can adapt the solution to meet your needs. Lightweight pipes with virtually zero corrosion and encrustation on the internal pipe surface to guarantee long-term, efficient performance of your cooling systems.

Refrigeration. For chilled or ice water, cooling water and secondary refrigeration from -40 °C to +60 °C, GF Piping Systems offers a standard plastic system in ABS or its pre-insulated version COOL-FIT ABS. This pre-insulated version offers excellent energy savings ($\lambda = 0.026 \text{ W/m}^*\text{K}$). COOL-FIT ABS consists of pre-insulated pipes and fittings with a high quality PUR-insulation and a PE- or PUR-jacket.

After solvent cementing, the gaps between pipes and fittings will be insulated and sealed with a shrinking sleeve to prevent any ingress of moisture into the insulation, i.e. the seals are vapour- and water-tight. Pre-insulating on-site at GF ensures the steady quality of the insulation. The non-compressive outer jacket leads to mechanical strength and prevents condensation.

Especially bigger pipe dimension have a considerable weight advantage compared to metal systems: high static loads can be a significant cost factor for buildings and the weight per metre of pipe is also an important factor for installations in cramped areas. For optimal dimensioning of the COOL-FIT systems, GF Piping Systems offers a free-of-charge on-line calculation tool.

Critical fluids. Complete piping solutions made of FDA-listed SYGEF® or PROGEF® Natural materials are ideal for critical fluids and acidic applications and do not effect the taste and taint of the media. The excellent chemical resistance of plastics even at low pH values produces a high-quality, cost-effective alternative to stainless steel. Let GF Piping Systems recommend a solution for your medium.

Storage and chemical distribution. Plastics offer excellent chemical resistance with excellent life-span expectations for temperatures up to 140 °C.

GF Piping Systems plastics in PVDF, (β)-PP-H and PE 100 are top quality, reliable solutions, even for 33 % HCL and 95 % H₂SO₄.

GF Piping Systems offers written recommendations regarding life span and chemical resistance on request. Just ask us.

Chemical drain and waste system. Speciality piping has become a key term for stronger and more reliable primary and secondary waste lines. GF Piping Systems' FUSEAL® products in flame retardant PP or PVDF provide you with a cost-effective and safe method of conveying corrosive fluids even at elevated temperatures. The double containment piping system CONTAIN-IT Plus offers excellent safety to protect people, equipment and environment when transporting dangerous fluids. Internal carrier pipe and external protecting pipe materials can be chosen according to your individual needs.

Compressed air and gases. Improved efficiency with smooth bore plastics. Reliable and simple installation technology. Complete systems in PB and PE with application-orientated components and dedicated engineering support.

Measurement and control. Total solutions including automatic valves (pneumatic and electrically actuated). Flow, pH and conductivity measurement equipment from SIGNET are also part of our product range.

Process piping system for **critical fluids** in SYGEF® (PVDF) or PROGEF® Natural (PP-n).



Storage and chemical distribution with PVC-U.



Chemical drain and waste system in CONTAIN-IT Plus or FUSEAL® (PVDF/PP).



GF Piping Systems → worldwide at home

Our sales companies and representatives ensure local customer support in over 100 countries.

www.piping.georgfischer.com



Numerous renowned international companies have years of good experience with GF Piping Systems. We would be pleased to demonstrate our competence in providing reference data on the basis of these real applications.

Please find more information concerning Food & Beverage:
www.piping.georgfischer.com → Solutions → Food & Beverage

The technical data is not binding and not an expressly warranted characteristic of the goods. It is subject to change. Our General Conditions of Sale apply.

Adding Quality to People's Lives

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