



Plastic Piping Systems

→ Solutions for the
Chemical Process Industry

GF Piping Systems

Supplying the world with clean water is one of the major challenges of the 21st century. GF Piping Systems rises to this challenge by providing high quality piping systems.

We develop and produce pipes, fittings, valves, flow measurement devices and fusion machines. These application-oriented system solutions allow transporting water, gas and industrial liquids safely and reliably. Whether in industry, utilities or building technology - GF Piping Systems has the right solution for you.

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 3 200 employees achieves an annual turnover of about CHF 800 million. GF Piping Systems is part of the Georg Fischer Corporation, which was founded in Schaffhausen, Switzerland in 1802. Today the corporation has circa 12 000 employees and an annual turnover of CHF 3.7 billion.



→ Your benefits

- local expertise
- cost effective solutions
- prefabrication
- individual system solutions
- sustainability
- environmentally friendly systems



→ Know-how for a safe environment

+GF+

GEORG FISCHER
PIPING SYSTEMS

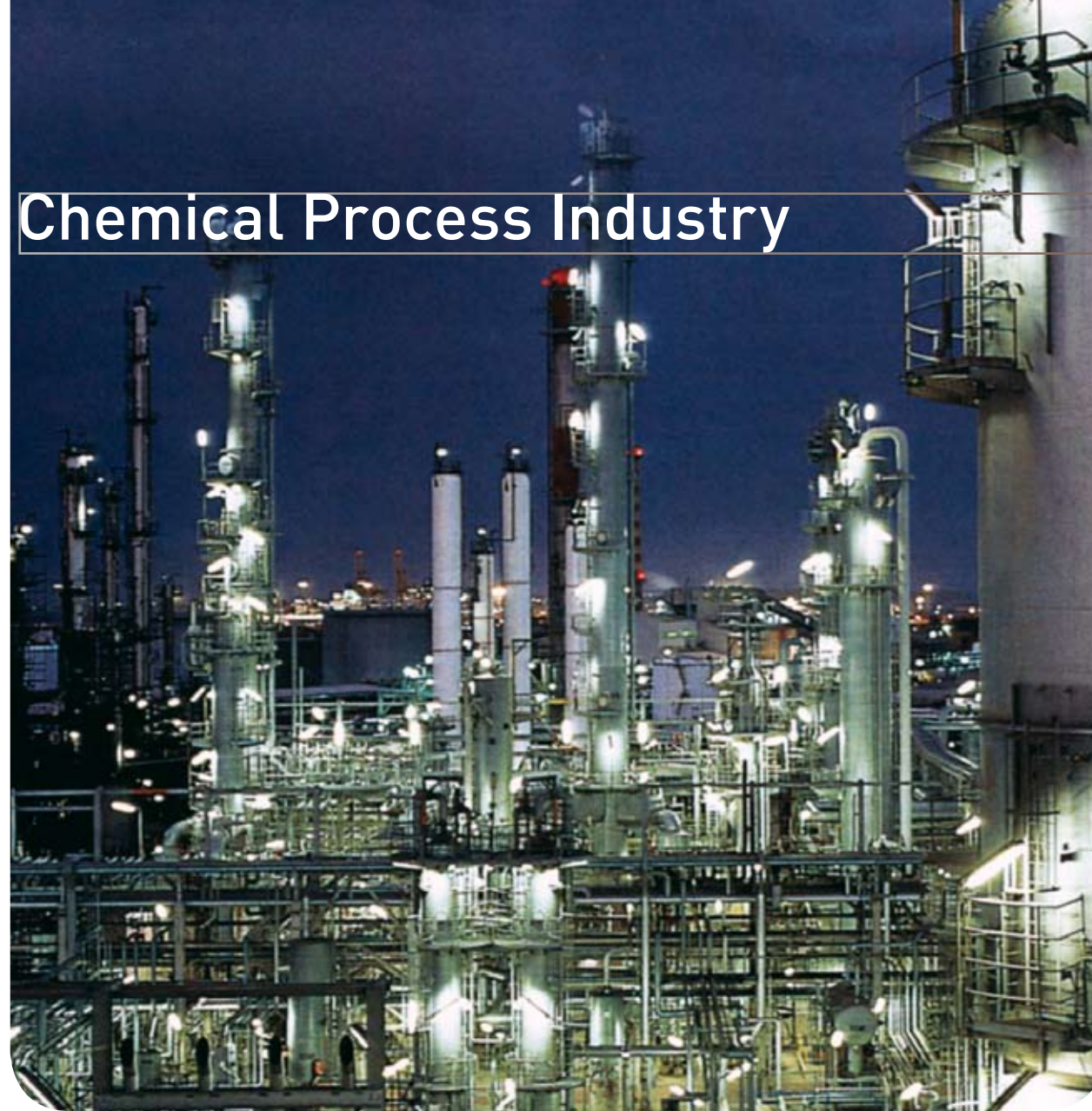
Thermoplastic piping systems have been relied on for decades to convey media, whether it's water for process cooling or hazardous liquids for industrial applications such as:

- chemical production
- chemical distribution
- surface treatment, steel pickling and galvanisation
- pulp and paper
- refining and mining
- power plants
- biomass and biogas and others.

Corrosion is no longer a problem when choosing the appropriate GF piping system. The harsh environment within chemical plants and the conveyance of chemicals place high demands on the piping systems in terms of safety, economic factors and subsequent maintenance.

Brandname	Material
SYGEF Standard	→ PVDF
SYGEF Plus	→ PVDF High Purity
SYGEF PFA	→ PFA
PROGEF Standard	→ β PP-H
PROGEF Plus	→ PP Cleaned
PROGEF Natural	→ PP-R Natural
COOL-FIT	→ ABS pre-insulated
CONTAIN-IT PLUS	→ Double Containment Piping
FUSEAL	→ PP Flame-retardant or PVDF
ELGEF	→ PE Electro Fusion Fittings

Chemical Process Industry



→ Plastics can do more

Most acids and bases are considered dangerous and are classified as substances hazardous to water.

Materials such as PE, PP, PVC-U, PVC-C, PVDF and PFA are particularly suitable for this purpose because of their high chemical resistance to most corrosive media used in the chemical process industry. Choosing the most suitable material is prerequisite for each application.

GF Piping Systems offers comprehensive support so that customers know how to select the most suitable piping system, how to design it and how to accomplish a high quality installation.

We regularly organize seminars at our headquarters in Schaffhausen as well as at our local sites.



Process Cooling
in PROGEF Standard, PE, PVC-U, COOL-FIT



Chemical Conveyance
in SYGEF Standard and Plus, PROGEF Standard and Plus, PVC-C, PVC-U, PE, CONTAIN-IT Plus, SYGEF PFA



Chemical Drainage and Waste Water Treatment
in PROGEF Standard, PVC-U, PE, FUSEAL



High Purity Fluids
in SYGEF Plus, SYGEF PFA



→ Your benefits at a glance

- No corrosion problems
- Safe and economical solutions
- Reduced maintenance costs
- Simple, but high quality installation
- Widest range of plastic piping systems
- Worldwide presence

→ Applications – Materials – Systems

Process Cooling

Water for the cooling process, whether temperature controlled or not, is one of the principal demands in the chemical process industry. It is used extensively in heat exchangers and reclaim equipment or high-tech manufacturing processes. Corresponding to your expectations or given building restrictions, GF Piping Systems can adapt the solution to meet your needs. All product lines are corrosion-free, in addition to the internal pipe surface being free of encrustation. Moreover, the insulation aspect is exceedingly advantageous compared with metal pipelines. Our piping systems ensure the long-term and efficient operation of your cooling systems.

Chemical Conveyance

The transport of chemicals represented one of the first applications for GF Piping Systems products more than 50 years ago. Since then, our products have continually been developed in accordance with market needs and today we are uniquely positioned to provide suitable materials as well as cost-effective and safe methods for conveying corrosive fluids. With SYGEF, GF Piping Systems can meet your chemical delivery requirements even up to 140°C combined with an excellent good chemical resistance. Our piping systems in PE, SYGEF, PVC-C, PVC-U and PROGEF are top quality, reliable solutions for various chemical media. For hazardous fluids CONTAIN-IT Plus pipe-in-pipe systems satisfy your demands. The internal pipe carries the harsh chemical waste and can be chosen according to your specific needs. The external pipe serves to protect the system and can be combined with additional equipment to indicate possible leaks.

Chemical Drain and Waste Water Treatment

Chemical waste drain as well as water reclaim and recycling applications present environmental challenges to any factory. GF Piping Systems' FUSEAL products in flame-retardant PP or PVDF have been developed especially for such applications with the goal of protecting our environment. This is a cost-effective and safe method for conveying corrosive liquids

even at elevated temperatures. CONTAIN-IT Plus with its excellent properties can be used for hazardous chemical drain as well.

High Purity Fluids

SYGEF Plus or SYGEF PFA are complete high purity piping systems with excellent surface roughness, inertness and corrosion resistance. All components show a very low ionic contamination and guarantee long-term as well consistent quality at a favorable price/performance ratio.

Vacuum

Complete systems for use in applications down to absolute vacuum, including valves in rigid plastics with low pressure loss, e.g. PE, PROGEF Standard and PVC-U systems which offer high corrosion resistance and virtually no maintenance.

Compressed Air

Improved efficiency with smooth bore pipes, combined with reliable and simple installation technology. Complete systems in PB and PE with application-specific components and dedicated engineering support.

Measurement and Control

System solutions including actuated valves (pneumatic and electric). Flow, pH and analytical conductivity measurement equipment with transmitters from GF SIGNET complement our product range.

Welding

We have developed specific welding technologies for each product group and application. Proven and simple technologies such as butt and socket fusion are complemented with IR and BCF fusion technologies which offer both traceability and repeatability. High quality and very little stress concentration in the welding zone are given, rendering them less prone to stress cracking corrosion.

Vacuum
in PROGEF Standard, PVC-U, PE



Automation
Electric and Pneumatic Actuators



Welding
Socket, Butt, Infrared (IR), Bead and Crevice Free (BCF)



GF Piping Systems → worldwide at home

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

www.piping.georgfischer.com



The technical data is not binding. They neither constitute expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.

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