

GF Piping Systems



PE in big dimensions

# Making big connections

Sustainable solutions for advanced piping networks

**+GF+**  
ELGEE Plus

Our large-diameter solutions in PE (polyethylene) make your big projects easier, faster and more economical.

# Building the lifelines of the world

GF Piping Systems is the global expert for the safe and reliable transportation of water, chemicals, and gas. The maintenance-free and long-lived piping systems made of plastics help implement vital applications of our customers faster, more cost-effectively and more sustainably. GF Piping Systems supports its customers throughout all phases of their projects from planning to commissioning.

### + Maintenance-free plastic

Piping systems made of plastics are maintenance-free, light and very durable. They help reduce repair and overall costs and are suitable for the transport of drinking water, abrasive and aggressive liquids, as well as gas.

### + Complete system solutions

With more than 60'000 products, GF Piping Systems can offer complete system solutions. In addition, custom-made special parts and special series are also possible. Customers benefit from perfectly matched solutions from a single source.

### + Local support

GF Piping Systems has its own sales companies in 34 countries, which means it is always by its customers' side. Our production sites in 32 locations in America, Europe, and Asia ensure sufficient availability and quick, reliable delivery.

### + Service in all project phases

GF Piping Systems supports its customers both in the initial switch from metal to plastic and in retrofits – across all project phases. They benefit from more than 60 years of experience in plastic systems and application knowledge from 100 countries.

### + Partner for digitization

With its advanced automation and digitization solutions, GF Piping Systems allows its customers to optimize their applications and gives them easier access to their system data. Digital tools support you in every phase of the project.

### Facts and figures

- **Established:** 1802 (Georg Fischer) in Switzerland
- **Locations:** 34 countries with own sales offices
- **Turnover:** 1.802 billion Swiss francs (2019)
- **Employees:** 6'892 (2019)



The GF Piping Systems plant in Schaffhausen, Switzerland.








## The benefits of polyethylene

# Debunking the myth: engineered plastic, our modern-day hero

Plastic is somewhat of a dark horse when it comes to piping systems, with many companies still believing metal to be the more durable material. If we compare metal versus plastic polyethylene (PE) pipes installed over the past 60 years, we see a different story.

Robust, long-lasting, and reliable – the face value of metal is somewhat misleading. The reality is, instead, more likely to include damage, corrosion, and repair costs with serious financial implications. It may seem unexpected, but the qualities mentioned above are instead more relevant to plastic piping systems made of polyethylene (PE). Recent studies from The European Plastic Pipes & Fittings Association (TEPPFA) prove that PE pressure pipe systems have an expected service life of more than 100 years. Safe and reliable processes are more achievable with PE systems compared to metal, as PE does not corrode. In contrast, metal piping is susceptible to corrosion, shortening its lifespan and amounting to maintenance and repair costs.





PE in big dimensions

# Designed for big ideas

A safe and reliable connection is the critical success factor for large-sized piping systems. GF Piping Systems provides large-diameter PE solutions, making big projects more straightforward, faster, and more economical.

## Experts in PE piping systems

Corrosion-free, light-weight and highly durable, PE piping systems have an expected lifespan of over 100 years compared to metal systems. They help your company and community to reduce the maintenance and transportation cost of drinking water and gas. Their longevity, recyclability and low carbon footprint, especially in urban areas thanks to trenchless laying, support your sustainability efforts.





## + 100-year lifetime

In the water and gas sector, the PE systems are expected to last for at least 100 years – even for large dimensions. They remain maintenance-free and show no additional pressure loss. The PE systems are corrosion-free, weatherproof, UV-resistant and remain impact-resistant under all climatic conditions.

## + Easy trenchless laying

The material-specific flexibility of the PE systems allows trenchless laying, including relining and horizontal directional drilling. This reduces construction times and follow-up costs on the surface and avoids unnecessary damage to the infrastructure, like cutting roads, increased traffic, and noise pollution in urban areas.

## + Highly cost-effective

PE systems significantly reduce maintenance and repair costs, because they do not corrode. Their low weight makes it possible to reduce heavy transport equipment on the construction site. With big dimensions, PE can be installed more easily, quickly and efficiently.

## + Safety through flexibility

Once laid, the natural resiliency of PE pipes means they absorb surges in pressure, vibration and stress caused by soil movements such as earthquakes, largely adapting to natural ground motion. This reduces the risks of breaks and leaks, keeping the water and gas supply continuous.

## + Reduced carbon footprint

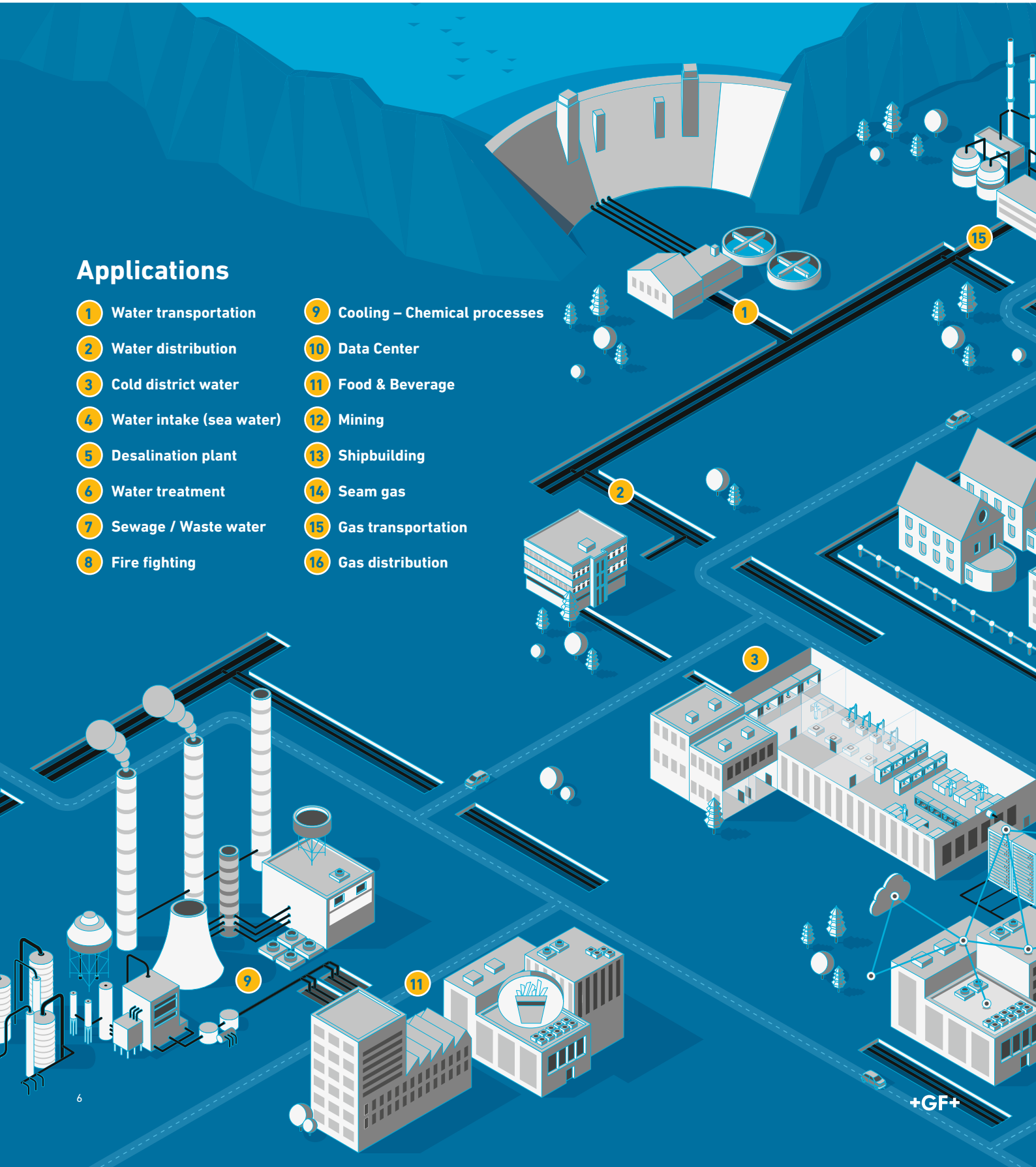
PE systems reduce CO<sub>2</sub> emissions by more than 80 percent compared to metal systems and are fully recyclable. Especially for installations with large dimensions and more material, this is a considerable advantage. They make a positive environmental contribution and support your sustainability efforts.



# Big diversity with no limits in designing your pipeworks

## Applications

- |                            |                                |
|----------------------------|--------------------------------|
| 1 Water transportation     | 9 Cooling – Chemical processes |
| 2 Water distribution       | 10 Data Center                 |
| 3 Cold district water      | 11 Food & Beverage             |
| 4 Water intake (sea water) | 12 Mining                      |
| 5 Desalination plant       | 13 Shipbuilding                |
| 6 Water treatment          | 14 Seam gas                    |
| 7 Sewage / Waste water     | 15 Gas transportation          |
| 8 Fire fighting            | 16 Gas distribution            |





Sarah-Sophie Heißner  
visual driven

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+GF+



Product range in big dimensions

# For your success in big dimensions

**Our large-diameter solutions  
in plastics make your big projects easier,  
faster and more economical.**

A safe and reliable connection is the key success factor for your large-sized piping systems, but at the same time can be a challenging task. We understand your need for proper tooling, high-performance jointing technologies and connection parts as well as expert support on site. It is our experience and know-how in building, operating and maintaining big dimensioned piping systems, that enable us to create the right solutions for your varied installations in water and gas applications.



## Electrofusion pipeline components

Wide range for safe, systematic, economic and efficient installation of your piping system.



## Specialized Solutions

GF Piping systems supports the design, installation and commissioning phase. Benefit from value added solutions such as: Track & Trace, Ultrasonic NDT (Non- Destructive Testing), on-site prefabrication and on-site training.

**Design  
Build  
Operate  
Maintain**







#### Spigot fittings

Our spigot fittings provide high cost efficiency in addition to maximum quality and durability.



#### Welding machines and tools

Our diverse range of tools, electro and buttfusion machines from manual to automatic for your individual need.



#### Mechanical fittings

Our wide range restraint fittings up to DN825 allow you to quickly make a restraint connection between all pipe materials without using special tools.



#### Valves

Our high-performance and durable butterfly valves reliably control the liquid media flow in your pipelines.



#### Measurement and control

Our comprehensive automation portfolio for accurate measurement, precise control and reliable actuation.

Quality & production

# Quality assurance at all levels

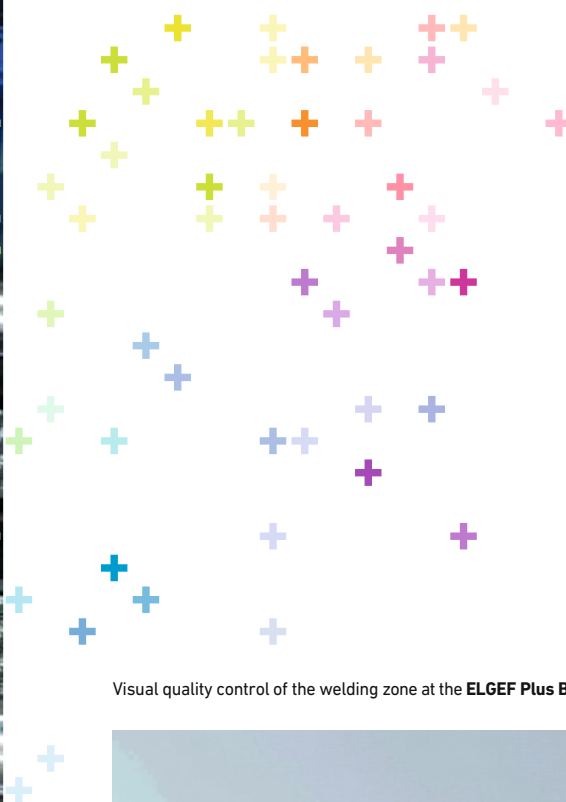
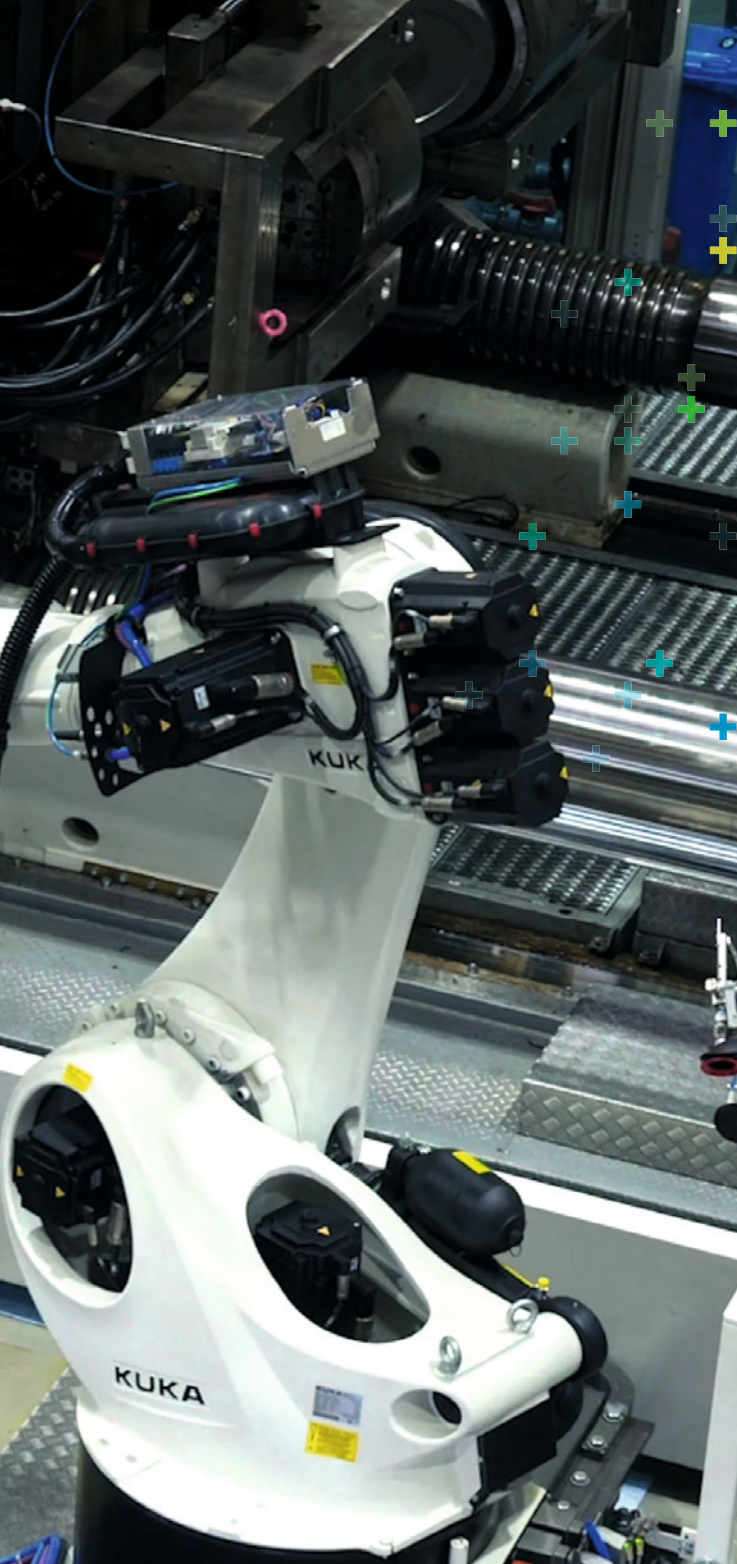


GF Piping Systems products are designed with the highest quality standards to give you the deserved peace of mind. Therefore, not only intensive testing and multiple quality controls are required, but also consistent materials.

Safety and reliability on the materials can only be achieved through the correct dispersion of the carbon black and other essential additives within the polymer matrix. As a result, GF Piping Systems only uses fully compounded 100% virgin PE resins, approved by the PE100+ association. This assures not only a high quality material, but also an outstandingly long lifetime performance.

Whether it is for a 100% virgin PE resin or a completely finished product, GF Piping Systems tests compliance with the guaranteed characteristics thanks to its outstanding laboratory competence.





Visual quality control of the welding zone at the **ELGEF Plus Branch Saddle Topload**



GF Piping Systems tests the material, jointing technology and products down to the smallest detail beyond the measure specified by standards at its accredited laboratory (ISO/IEC 17025) in Schaffhausen, Switzerland. Moving to the ultimate safety level, the outstanding quality provided by GF Piping Systems is proven by the numerous international approvals that it possesses.



#### Approvals



A selection of more than 40 product approvals available, more on request.

# Answering your problems

## Main challenges



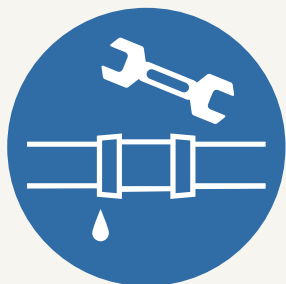
### Are you struggling with the effects of rigid pipe installation?

Big, open-trench methods are needed when rigid ductile iron or steel pipes are used, while also demanding more safety and certificates for welds. Excavating trenches is challenging in densely populated urban areas, requiring road closures and causing an increase in traffic jams and noise disturbance. Trenching is unavoidable, obstructing other processes and delaying the project.



### At a loss on how to reduce non-revenue water?

33% of the world's drinking water is lost due to leakage in the aging infrastructure. The majority of water networks is made of steel, which corrodes. Corrosion results in incrustation, reducing flow, and polluting the medium. Furthermore, corrosion reduces wall thickness, causing holes and pipe bursts, leading to expensive damage and water loss.



### Not sure how safe your installation is?

Bad installations on gas pipelines cost on average € 1 Million\* – which often fail due to improper installation. In the past, it has been impossible to measure welding quality in plastic piping systems without destroying the welding. Owners have had to face the decision to replace welds that may in fact be fine or accept the risk of failure.



### Do you need training and on-site support?

#### Lacking experienced installers for your installation?

Training to support you on site is critical to the proper installation of your large-diameter piping projects because this influences the total service life of your system. Owners can face problems after installation and personalized support in local languages at all stages is crucial in these circumstances.





Large-dimension building projects demand materials that are up to the task. Developers and operators continuously face the same challenges, especially when working with metal or concrete piping systems. We provide the answer to these issues, reducing the cost of your network. By choosing our PE systems to build big, you select not only the best product but also a reliable partner to support you every step of the way.

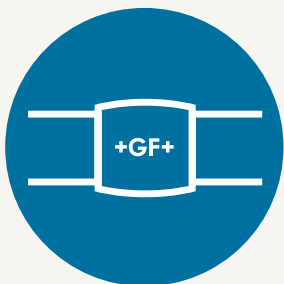


## How GF Piping Systems can help you



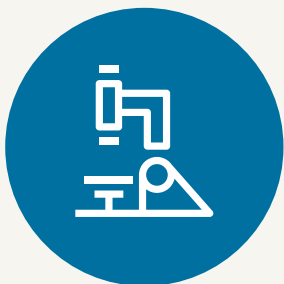
### Trenchless laying

The material-specific flexibility of a PE system allows for trenchless laying. This reduces construction times and follow-up costs on the surface and avoids unnecessary disturbance to the population and infrastructure. Further advantages of trenchless laying include the reduction of dust and noise thanks to less excavation work as well as fewer transport journeys.



### Corrosion-free and reliable connections

In the water and gas sector, PE systems have a calculated lifespan of at least 100 years – even for large dimensions. The fact that PE does not corrode means the system stays maintenance-free and does not lose water. In addition, PE welds do not leak as they are fused to make a single piece. PE systems are weatherproof, UV-resistant, and remain impact-resistant under all climatic conditions.



### Ultrasonic NDT

PE welding connections are strong and reliable. However, for complete peace of mind, digitized solutions like the GF Piping Systems Ultrasonic NDT (Non-Destructive Testing) provide ultrasound scans to look for any potential defects and tightness of welds and pass tests, assuring safety before operations begin.



### Training – Specialized education

Instructional courses can help you to teach your customers or installers essential knowledge for the welding of pipes and piping components, as well as an in-depth understanding of butt and electrofusion connections. With Specialized Education, we help prevent damage, with well-trained and qualified installers and provide you with on-site support in your local language.

# Sinkhole swallows parked cars in the city

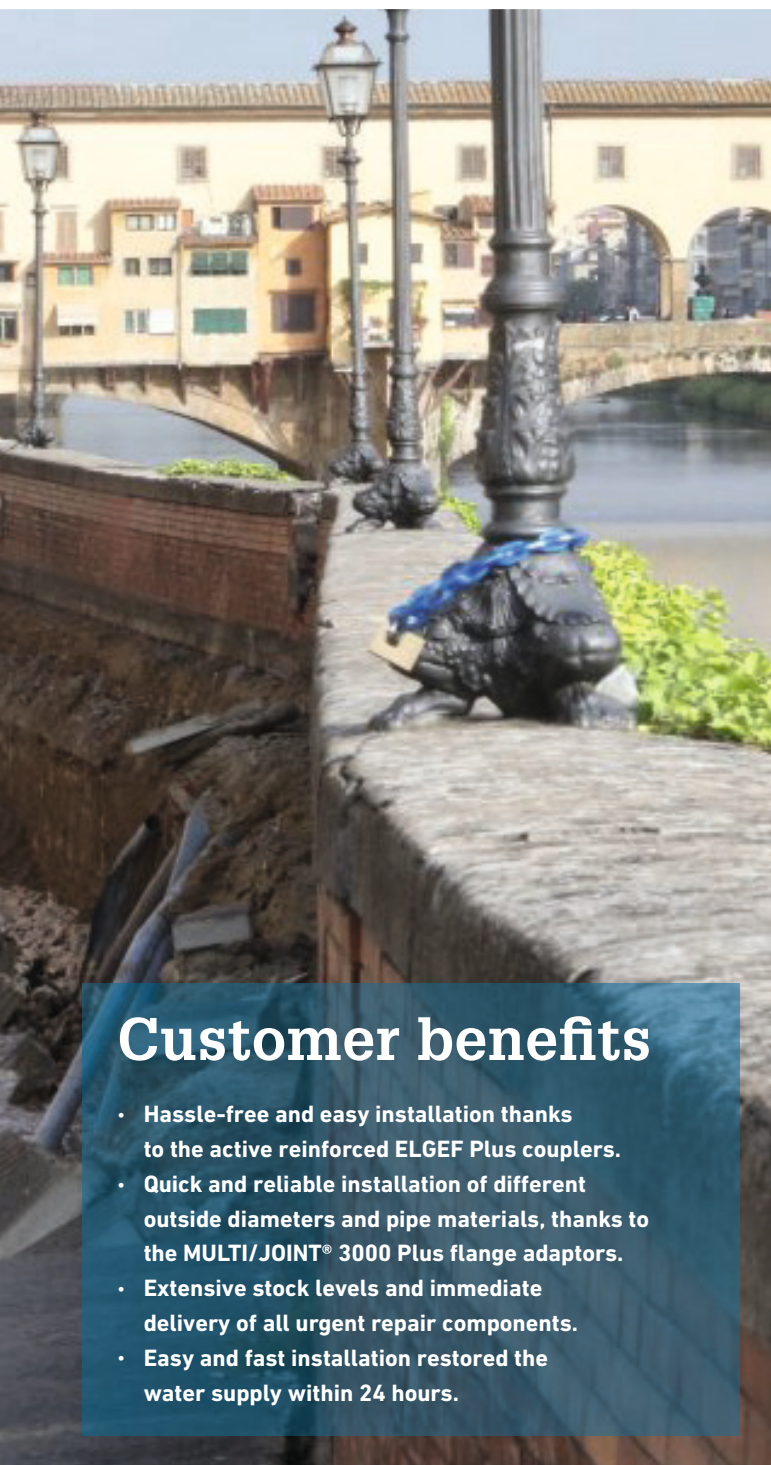
The value of high quality products and outstanding services are especially noticeable in emergency situations. A massive sinkhole caused by a leaking DN600 ductile cast iron pipe swallowed thirty parked cars in downtown Florence. In addition to the disastrous damages, the water company had to immediately restore the water supply for thousands of residents. The challenging task – installing a bypass – could be quickly solved with GF Piping Systems products.





## Challenge

In May 2016, a large part of the embankment in downtown Florence near Ponte Vecchio collapsed all of a sudden and crashed down a few meters. A leaking DN600 cast iron main water pipe had washed away a massive amount of soil, causing a giant sinkhole with a swirling water mass, which swallowed parked cars and caused great chaos. Publiacqua S.p.A., the waterworks of Florence, had to find a solution to restore the water supply of a major part of Florence's residents as quickly as possible. All parties involved in the repair of the temporary transport line bypass had to act quickly, reliably, and efficiently.



## Customer benefits

- Hassle-free and easy installation thanks to the active reinforced ELGEF Plus couplers.
- Quick and reliable installation of different outside diameters and pipe materials, thanks to the MULTI/JOINT® 3000 Plus flange adaptors.
- Extensive stock levels and immediate delivery of all urgent repair components.
- Easy and fast installation restored the water supply within 24 hours.

## GF Piping Systems solution

Publiacqua S.p.A., in general applies the principle that new suppliers must go through a tough quality control process before they can actually supply any products. Fortunately, the urgently needed GF Piping Systems components for the repair and bypass line had already been approved by the water works. Moreover, the excellent stock level of a local wholesaler near Florence and GF Piping Systems distribution center in Italy, provided very fast on site delivery of the required MULTI/JOINT® 3000 Plus system, d500 mm ELGEF Plus couplers, flange adaptors and flanges. In such emergency repair situations in particular, not only the availability of the products but also the ease of installation of the large diameter ELGEF Plus Couplers d500 mm and the fit of all the different GF Piping Systems components were highly appreciated.

## Achieved improvement

The excellent communications, extensive stock levels, and fast response times between the water works, local wholesaler and GF Piping Systems Italy, resulted in rapid delivery and installation. Within only 24 hours of the sinkhole crash, the temporary bypass of the water line was installed and restored, securing the water supply of thousands of residents and tourists. Publiacqua S.p.A. put its trust in GF Piping Systems products and highly appreciated the effort and support of GF Piping Systems Italy. They will not hesitate to use GF Piping Systems products again in the future.

## Used products



### ELGEF Plus Electrofusion coupler

Unique features of the patented active reinforcement principle (d355 mm – d800 mm) not only ensure extremely easy and fast installation, but also high reliability with its perfect welding results.



**Electrofusion machine**  
User-friendliness, easy handling and high performing MSA electrofusion units. Variety of MSA machines to meet your requirements for each application.



**MULTI/JOINT® 3000 Plus**  
"One size fits and grips all" – The wide range restraint fittings up to DN825 allows you to easily and quickly make a connection between all pipe materials without special tools.



# Corrosion-free in and outtake lines

Pipelines for process cooling in the chemical process industry are often exposed to rather corrosive environments. If the cooling system fails seriously, the main process has to be shut down in the factory, which can lead to extremely high downtime costs. When cooling pipelines are replaced, corrosion resistance, reliability, longevity and the speed of replacement are crucial.





## Challenge

The largest Romanian producer of fertilizers – Azomures – supplies farmers with mineral fertilizers for their agricultural use. The production plant of Agrumures in Tirgu Mures decided to replace their old and very corroded DN900 steel pipes for their process cooling with d1000 mm Polyethylene pipes. The pipeline transports the cooling water between the chemical process (50 °C) and the cooling tower. To compensate evaporated water, an intake line takes out fresh water directly from the nearby river. As cooling is essential for the entire chemical plant, the piping could only be retrofitted during the one-month maintenance period. A time-critical undertaking, even for the PE experienced contractor.

## GF Piping Systems solution

Although the customer was not yet familiar with PE, the benefits provided by an engineering company were self-evident: PE is fully resistant to corrosion, has a considerably lower carbon footprint, and assures a long service life. But the most compelling argument was, that the tight construction period was only possible with PE. The time-efficient and straightforward construction of reduced outlets using large-diameter ELGEF Plus branch saddles instead of cut tees were the game-changer in this project. Due to the importance of the cooling process for the entire plant, the product quality, and the reliability of the jointing technique was essential.

## Achieved improvement

The retrofitted PE process cooling lines ensure corrosion and interruption-free operation and provide a long service life. With the local GF support, the on-site training, the high-quality performance of GF butt fusion machines, and the service of branch saddle installation experts, the contractor was able to ensure high-quality jointing and finished the challenging job in time. With the experience made, the customers were convinced that PE and branch saddles are an ideal solution for this kind of application. They now plan to replace another large-diameter steel pipe with PE.

## Used products



### ELGEF Plus Branch Saddle Topload

Ideal electrofusion saddles for large polyethylene pipe installations up to d2000 mm and customized outlets up to d500 mm. For efficient installations and superior flexibility in on-site assembly.



### Topload tool

The combination of peeling and clamping tool speeds up installation, allowing for ideal and easy pipe preparation. Pressure testing plugs available to secure the installation.



### Butt fusion machine

Robust and reliable design, from manual up to high-tech automatic CNC machines are perfect solution, in challenging conditions like water and gas distribution, water treatment or mining projects among others.

## Customer benefits

- Installation of ELGEF Plus Branch Saddle Topload was 70% faster than with a reduced tee using butt fusion technology (d630 × 160 mm).
- Easy and flexible installation due to free axial and radial positioning.
- Low weight and compact tools to facilitate installation even under difficult conditions.
- Corrosion and abrasion-resistant PE intake and outfall lines guarantee a long service life.



# Highest level of safety for fire fighting water pipes

Fire protection plays a key role in commercial buildings. Numerous structural measures need to be implemented in order to fulfil the applicable regulations and minimize the risk of damage in case of fire. To ensure a reliable and adequate supply of extinguishing water in case of fire, underground networks of welded pipelines from non-corrosive polyethylene are most commonly used today.





## Challenge

Closely spaced building parts encourage the spread of flames in case of fire and often lead to significantly increased damage or total loss. This is the reason why an industrial company from Germany decided to install, as a precautionary measure, a new fire protection system with an extinguishing water storage system. The idea of equipping the new facility with a larger capacity extinguishing water supply and connecting it to the existing system emerged in collaboration with GF Piping Systems during the planning phase. The commissioned piping constructor had to install the new lines in just a few weeks during ongoing production.

## GF Piping Systems solution

The search for an optimum solution led to the reliable and FM-approved polyethylene components from GF Piping Systems. The new supply lines (d160 mm to d500 mm) connect the new extinguishing water tank to the existing storage and production buildings via various branches routed underneath the road.

## Achieved improvement

"This solution means the company is not reliant upon the local water supply. It also reduces the insurance premium due to the additional safeguards", explains Thomas Schmitt, technical sales consultant responsible at GF Piping Systems. Thanks to the use of FM-approved systems, the building insurer is able to downgrade the fire risk and cost savings for the industrial operation can be achieved.



## Customer benefits

- Corrosion and sediment-free fire fighting water networks from polyethylene guarantee minimum pressure loss and ensure maximum pump pressure in case of fire.
- FM-approved\* components from d90 mm to d630 mm offer cost benefits for insurance protection.
- Special spigot fitting design features facilitate and speed up installation.

## Used products



### Spigot fittings

Highly cost efficient and durable spigot fittings up to d1200 mm. Specialized design and diversity enables no pressure reduction factor and compatibility with new and existing pipeline networks as well as to have full pressure up to d800 mm.



The extensive spigot fitting range naturally complements the ELGEF Plus electrofusion program. Long spigot fittings can be easily combined with ELGEF Plus electrofusion couplers or fittings to facilitate and speed up installation.



### Machines & Tools

GF Piping Systems offers full compatibility between all the components, tools, and fittings to ensure easy and secure installation with the right jointing technique and welding machines to help prolong the total service life of your system.



## Reference case

# Safe gas supply to the food processing plant

To secure reliable and cost-efficient food production, Agristo requires a 100% safe and steady gas supply for its new plant of Belgian fries. Consequently, the contractor was asked to provide measures to minimize the risks of supply shut-downs. To guarantee the best jointing quality of the gas main d355 mm, the installation process was done with GF Piping Systems products – including ELGEF Plus couplers, tools, and welding machines, and it was fully recorded by the Track & Trace system.





## Challenge

To be cost-efficient, applying economy of scale in food production needs an interruption-free process. In Agristo's new plant in Wielsbeke, Belgium a steady and reliable energy supply of gas is crucial for its production of potato products. The newly installed gas supply line in d355 mm involves a huge gas volume and therefore bears a certain risk to the premises. Therefore, Agristo instructed its contractor to take any preventive measure to safeguard the quality of pipe installations for the new production plant.

## GF Piping Systems solution

To ensure that the installation was carried out under the best possible conditions, GF Piping Systems Belgium provided on-site product training and a full set of rental machines, tools, and accessories. For maximum quality control, the contractor decided to use the Track and Trace system from GF Piping Systems for 360° documentation including traceability of pipe components, welding parameters, and GPS positioning of joints.

## Achieved improvement

The contractor appreciated the local service support package including on-site instructions and all necessary tools (i.e. ovality meters, positioners, rotary peelers, welding machines, GNSS receivers,...). The additional security of an overall documentation system allowed not only the contractor to prove the quality of its installation service to its customer, but also Agristo to trace the gas pipe line. As a positive side effect, the contractors installation team appreciated the easy assembly of the ELGEF Plus couplers, which allowed it to finish the job even under tropical installation conditions (30°C) in due time.



## Customer benefits

- Safe, easy and reliable jointing techniques with ELGEF Plus electrofusion couplers with active reinforcement.
- Rental service package provided locally along with on-site training and technical support.
- Track & Trace from GF Piping Systems is the ultimate asset management platform with full documentation of all installed fittings.

## Used products



### Track & Trace

A powerful digital tool to help eliminate paperwork, save time, reduce cost and optimize your workforce. Monitors the installation, including traceability of pipe components, welding quality and GPS positioning of joints.



### Rental pools

Rental pools providing you machines and tools for various jointing technologies like butt fusion or electrofusion to enable better and reliable joints in a more cost-efficient way.



### On site training and support

Our experts are at your side wherever you are, to conduct practical, application-oriented training sessions on-site and support you in every need – including short-term matters.

Everything is connected

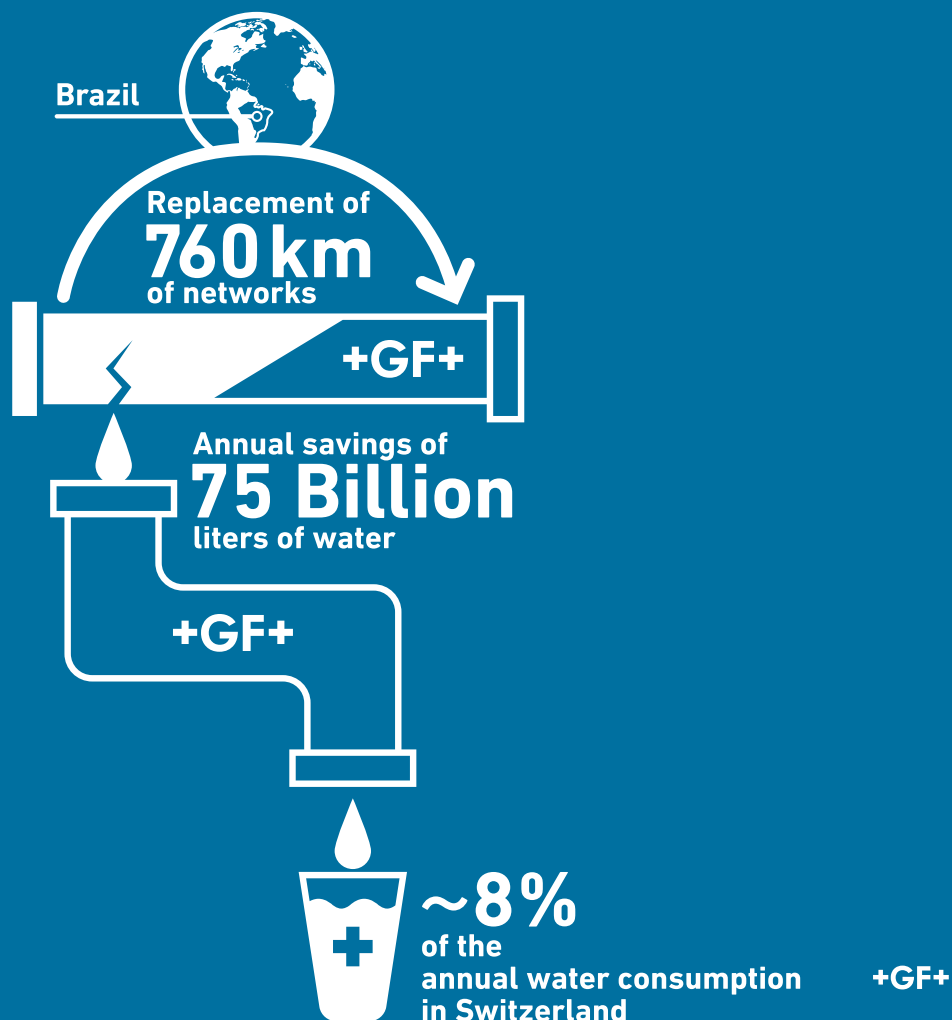
# Making your global footprint sustainable

As a company that is active worldwide, it is our mission to show our commitment, by supporting our customers' success with innovative, energy-saving solutions making the collective global footprint more sustainable. GF is a participant of the UN Global Compact, with GF Piping Systems directly contributing to the United Nations' Sustainable Development Goals.

GF Piping Systems is making flow sustainable: Environmental regulations, water scarcity and increasing demand of consumers and society for greener and more sustainable solutions is an important set of trends shaping customer behavior. Peace of mind when it comes to the safety and hygiene of water, gas or chemical flows is essential in our field of expertise. Our mission at GF Piping Systems is to make sure that customers enjoy sustainable flows of water, gas or chemicals, without safety issues, leakages and other environmentally challenging consequences.

## Saving water around the world

In the utility sector, our corrosion-free solutions help to reduce drinking water losses due to leaks. The Brazilian water and waste management company Sabesp currently loses 35% of its water distribution due to leakage. GF Piping Systems is supporting the water loss program by providing reliable PE piping systems for the replacement of 761 km of networks, to lower losses to 30%. This will result in an expected water savings of 7400 l per second in the Sao Paulo region, annually 75 billion liters, which is equivalent to 8% of Switzerland's annual drinking water consumption.





# Specialized Solutions

## Ready when you are

With Specialized Solutions, GF Piping Systems supports the design and installation of state of the art plastic piping systems, so that owners and planners can concentrate on their daily business without interruption. GF Piping Systems is present every step of the way, from providing planning support on new projects to testing the condition of old systems.

## Recommended services



### Condition analysis

Integrity of a piping system is essential for owner/operators of water, gas and chemical process plants. Ultrasonic NDT (Non-Destructive Testing) provides testing options at the point of installation, while Pipe Condition Assessment can be employed during operation to acquire real data about the state of piping systems.



### Custom Product Design and Prefabrication

Having your individual needs and application in focus, our customizing teams forge the solution that fits you best, developing custom-made parts to complete systems or special solutions produced in small series, individual consulting and off-site prefabrication.



### Track & Trace

Track & Trace is a cloud-based field data collector, supporting you with a wide range of online functionalities to streamline your decision-making processes throughout the implementation and operation of any kind of project.



## Next steps

In this brochure, you have received the most important information and technical details. But nothing replaces a personal conversation with an expert from GF Piping Systems. It is all about your needs and how we can support you in your daily business challenges. If you have not already done so, make an appointment today.

On the GF Piping Systems website, you will find specialized contact persons in your area. There you will also find further information on the product, including technical data sheets and operating instructions as well as relevant certificates and approvals.

- Appointment with an expert from GF Piping Systems
- Advice on the benefits of the solution for you
- Information on reference applications
- Help with selection and calculations
- Support in all project phases

## Find out more

[www.gfps.com/big-dimensions](http://www.gfps.com/big-dimensions)

# Worldwide at home

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

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