

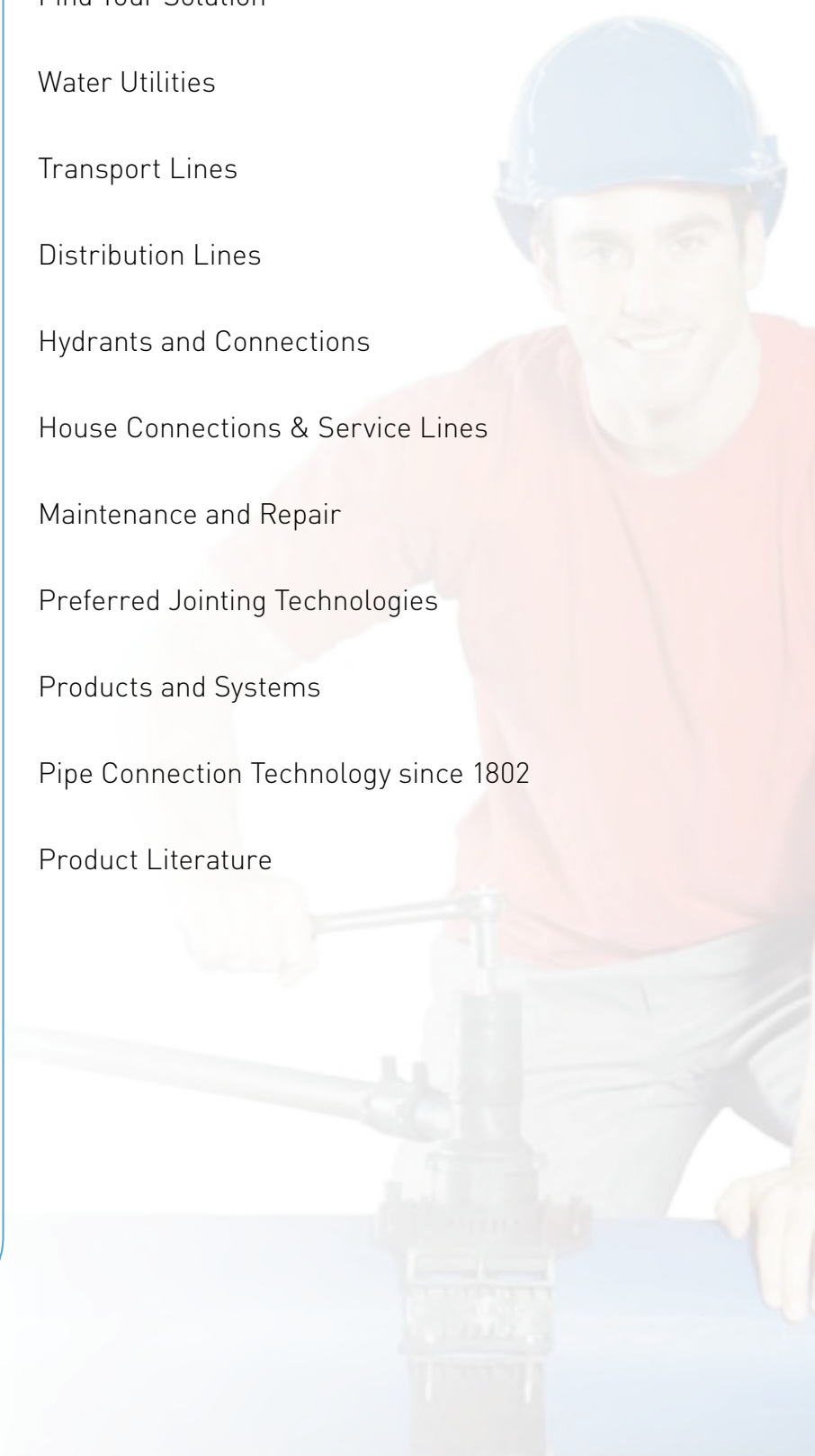
## Water Utilities

From Applications  
to Products



## Table of Contents

4 - 5	Find Your Solution
6 - 7	Water Utilities
8 - 11	Transport Lines
12 - 15	Distribution Lines
16 - 19	Hydrants and Connections
20 - 25	House Connections & Service Lines
26 - 29	Maintenance and Repair
30 - 31	Preferred Jointing Technologies
32 - 43	Products and Systems
44 - 45	Pipe Connection Technology since 1802
46 - 51	Product Literature



# GF Piping Systems

Your global system provider

**We are dedicated to designing, manufacturing and marketing piping systems for the safe and secure conveyance of liquids and gases.**

## **We put customers first**

- Customer needs guide our product development
- We offer customer support and training worldwide
- We measure your satisfaction

## **We act fast**

- Local presence worldwide
- Superior logistics
- Speed in all details

## **We do what we say**

- Tested quality
- Always reliable

## **Your competent partner to build, monitor and operate your network**


- Always the right solution for water utilities
- Premium quality and performance
- Increased security throughout the system
  
- Technological expertise
- «One-stop shopping» around the world
- System solutions
- Know-how and experience
- Local support



**+GF+**



## Added Value



### Plastics can do more for Water Utilities

In water distribution, whether for main lines, service lines or hydrants, a safe connection – especially with different materials – is always a primary concern.

GF Piping Systems has the right solution even for your most difficult connections. Our complete system solutions are:

- PE welded distribution systems, Butt Fusion and Electrofusion
- Mechanical restraint distribution systems for PE, PVC, DCI
- Repair and tapping concept for all types of distribution systems

#### Brandnames:

Draw Lock  
ELGEF Plus  
MSA Plus  
MULTI/JOINT  
Multi/Clamp  
Multi/Saddle Plus  
Plast/Joint  
POLY16 Plus  
PRIMOFIT

# How to use the brochure



1  
Start with  
Application Environment



2  
Select your  
Application



3  
Find your  
System Solution



4  
Choose your  
Joining Technology



5  
Add Products



## Water Utilities

Hygienic drinking water, pure in taste, smell and appearance, is one of the fundamental health requirements and the demand for a secure supply of clean water is increasing worldwide.

For the full spectrum of water supply, GF Piping Systems has a variety of innovative techniques and specialized products designed specifically for the water distribution industry.

Our leading know-how and expertise for all water distribution applications helps you finding the right solution. With our Butt Fusion and Electrofusion systems we offer you full traceability for integrated sustainable quality assurance.



### Water Treatment 1

→ For more information please see our application brochure: «Water Treatment Applications».

### Transport Lines 2

Transport and main lines bring water from the point of source to the point of distribution.

### Distribution Lines 3

Distribution lines in the potable water grid are typically in the range of DN300 (d355) to DN50 (d63).

# From Source to Point of Use

Source → Treatment → Storage → Transport → Distribution → Point of Use



## Hydrants & Connections

4

Hydrants and connections are the feed lines for fire fighting branching of the transport or distribution lines.

## House Connections & Service Lines

5

Service lines bring clean water into the home, passing through the water meter either outside or inside the house.

## Building Technology

6

→ For more information please see our brochures.





Transport and main lines bring water from the point of generation to the point of distribution.

Typical diameters are from DN300 (d355) and upwards and the medium pressure is generally 6 bar, but can even increase to 25 bar or higher.

The safe and economical conveyance of water, especially for large dimensions, is an ideal opportunity for plastic piping systems.

For the secure transport of water, it is essential that pipes, fittings, valves and other components are connected safely and reliably – especially in applications where different materials are used.

GF Piping Systems offers a comprehensive line of products, including MSA Plus Electrofusion Machines, Butt Fusion Machines, ELGEF Plus modular systems, and tools as well as solutions for joining pipes made of metal, clay and asbestos cement.



**Quick and easy installation for bigger diameters.** Active welding without pre-heating for diameters up to d630.



**MULTI/JOINT XL fittings.** Transitions for all pipe materials.



# Transport Lines



**Variety of connection needs.** Butt-fused segmented fittings can be customised to meet local requirements.

**Tough conditions.** Our welding equipment is completely reliable and geared for use under challenging conditions.

*Transport Lines*



**Couplers for PE pipelines  
in d560 and d630.**

Pressure pad kit with two functions:

- Rerounding of PE pipes
- Fusion with an active reinforcement system

**Butt Fusion machines for bigger dimensions.**

Installation of PE or PP pipelines cost effectively, free of leakage and with a long-term safety factor, Butt Fusion technology is highly versatile and widely used.

**Transitions for all kinds of transport pipes.**

Regardless of the pipe material, we have the perfect fit when it comes to making transitions. Resicoat offers maximum corrosion protection and the long fitting lengths make the installation easier.

**Perfect Electrofusion with our control units.**

MSA Plus control units with data recording and transfer to our Win-Weld software. Robust design, reliable fusion process, user guidance in 24 languages and long service life.





# Transport Lines



**Workshop machines with many optional extras.**

For example, operator guidance, data recording, or automatic welding process.



**Connections to existing pipelines.**

Connections to pipelines are installed without pressure or under pressure. The right tools enable the construction of a perfect joint, branch connection or transition.



**Easy and fast pipe cutting for large diameters.**

Plastic pipe cutter for diameters from 355 – 1600 mm. The KS 1600 basic kit includes saw blade and guidance chains.



**Spigot fittings from our ELGEF Plus program.**

Wide range of fittings/sizes, high quality manufacturing and fully compatible. Long-end spigot fittings are suitable for both Electrofusion and Butt Fusion; individually packed in PE bags.

Transport Lines



Distribution lines in the potable water grid are typically in the range from DN50 (d63) to DN300 (d355).

Pipes have a design pressure of up to 16 bar, whereas actual working pressure seldom exceeds 8 bar.

The grid needs to be designed in such a way as to optimise water flow, thus ensuring the self-cleaning effect and preventing water stagnation.

GF Piping Systems offers MSA Plus Electrofusion machines which satisfy the most diverse requirements. Our product range also includes Butt Fusion for a safe and reliable connection.



**Full comprehensive range** of necessary tools for pipe preparation and joining.



**Robust, handy barcode scanner.** For traceability and data storage.

# Distribution Lines



*Distribution  
Lines*

*Distribution Lines*



**Electrofusion and spigot fittings up to d630.** Compact and flexible water lines suited to underground conditions.

**Wide-range fittings for reliable transitions.** MULTI/JOINT 3000 offers end-load resistance, without thrust blocks.



**ELGEF Plus fusion system in PE with modular components.** Full range from 20 up to 630 mm with couplers, reducers, branches and fittings. For a complete urban district piping system, either new pipelines or extensions.

**Butt Fusion machines.** Flexibility when joining different pipes in the wide field of distribution. Welding of PE or PP pipes. Machines equipped with data recorder for documentation of the piping network and fully automatic CNC machines.

**POLY16 Plus compression fittings.** For PE, PVC and other pipe materials, available from 16 mm – 110 mm for working pressures up to 16 bar. An easy and cost-effective mechanical jointing method for all kinds of site conditions.

**High pressure connections.** Restraint fittings, MULTI/JOINT 3000 are used to make end-load or flexible resistant connections up to 16 bar.



# Distribution Lines



**Plast/Joint – the dedicated mechanical coupling from d63 – d315.** For easy installation of plastic pipes with a single-bolt system design.

**GF branch fittings.** The user-friendly solution for new or network extensions. Non-pressure applications simply require a standard drill.

**The right tools.** Rotary peelers and MSA Plus control units round off the product selection. Data recording, reliable fusion process and robust design ensure traceability.

**Polyvalve from ELGEF Plus.** Polyvalve available with PE 100 SDR 11. Lightweight, corrosion-resistant, with plug or ball valve, full range of accessories.

**Wide range of extension spindles and street covers.** We offer a lightweight and yet sturdy access point for top-operation of valves.



*Distribution Lines*

*Distribution Lines*

# +GF+



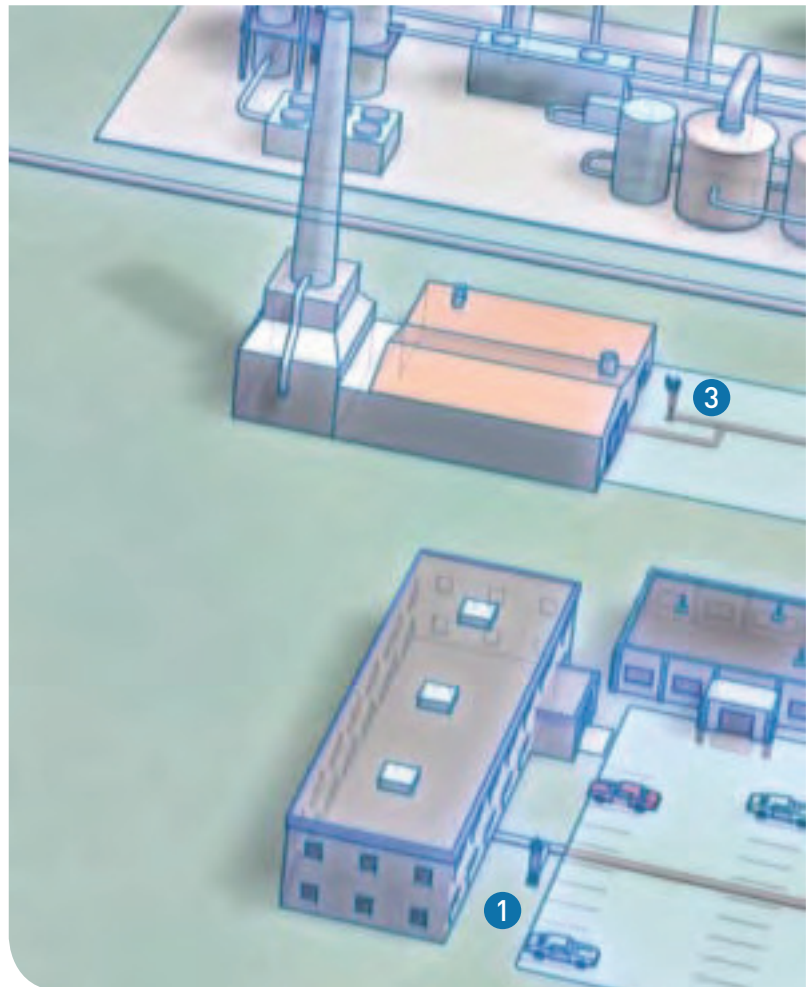
Fire fighters must be able to rely on a constant supply of water and know that all associated components will function correctly.

It makes no difference if the hydrant is built directly in the main line or in a side line, we have the right products.

Universal solutions: for non-plastic pipes, we have the unique MULTI /JOINT couplings on offer.

Solutions for PE pipes: connecting a hydrant to a PE pipe is made particularly easy with our branch fitting.

Duck-foot bends: whether electrofusion or mechanical joints, our sturdy duck-foot bends are the ideal solution for lateral connections. Thanks to the integrated service line outlet, there is no stagnant water in the pipeline.



**Easy connection to hydrants.** Transitions between PE lines and metal hydrants are easy and safe to install.



**MSA Plus control units.** Manual or automatic fusion-data input.

# Hydrants and Connections



Hydrants and Connections



**The new PE hydrant.** The innovative PE hydrant can be connected using many different types of connections.

**Connection to the plastic pipeline vertically or laterally.** Full range of fittings which satisfy all requirements.

Hydrants and Connections



**ELGEF Plus – the system with added value.**

The central component of a complete modular system offers you a variety of solutions for integration into pipeline systems in all kinds of materials. Everything is made to match.



**MSA Plus control units ensure continual quality of welding.** Rotary peeler for preparation of the pipes. MSA Plus control units for hydrants and connections. Robust design with user guidance and traceability, long service life, easy working.



**POLY16 Plus compression fittings for different pipe materials.** For PE, PVC or other pipe materials available from 6 mm – 110 mm for working pressures up to 16 bar. Easy mechanical connection system, ideal for house connections, maintenance and repair.



**MULTI/JOINT duck-foot and T-piece.** A wide range flexible or restraint connection enabling easy and quick installation of hydrants or valves on any pipe material.



# Hydrants and Connections



**Draw-Lock transitions between PE and metal flanges.** Draw-Lock is a very compact solution with end-load resistance for integrating metal-flanged fittings like valves and hydrants in PE pipe systems.



**Wide range of extension spindles and street covers.** We offer a lightweight and yet sturdy access point for top-operation of valves and hydrants.



**The perfect product in every situation.** Fusion joints and mechanical connections made fast and easy.



**Spigot fittings – a proven technology.** Complete range of spigot fittings, also for very large dimensions. Suitable for both Electrofusion and Butt Fusion.



*Hydrants and Connections*

*Hydrants and Connections*

**+GF+**



Service lines bring clean water into the home, passing through the water meter either outside or inside the house.

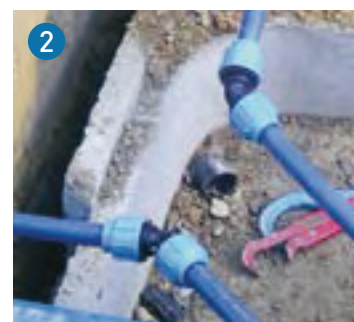
Pipe diameters normally range from DN20 (d25) to DN50 (d63).

Today polyethylene is predominantly used for nearly all house service pipes for reasons of flexibility, easy jointing and a long product life.

Thanks to the modular ELGEF Plus Electrofusion saddles, an appropriate solution can be found for every application. GF Piping Systems also offers plastic valves for the perfect shut-off.

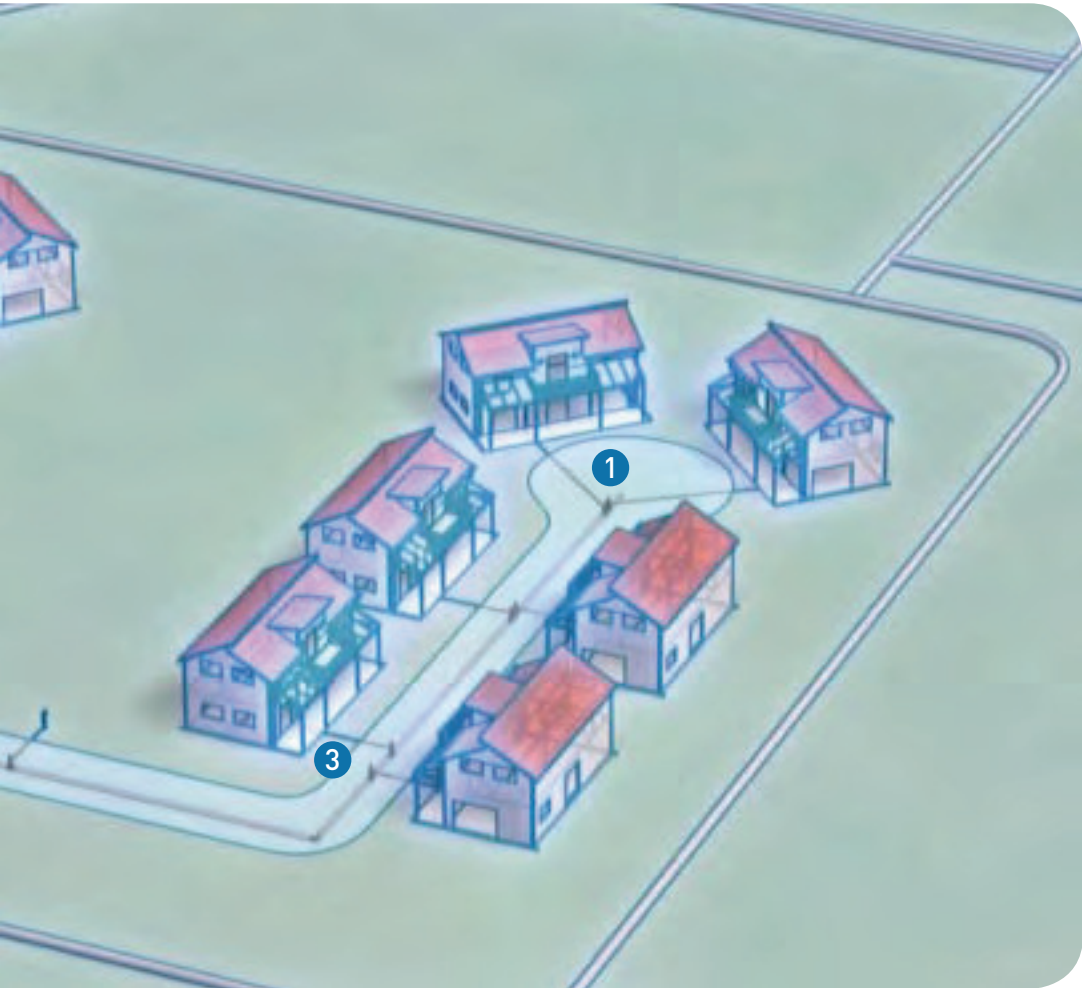


**Easy house connections.** The universal fitting for connecting metric PE pipes to plastic or metal pipes in every situation.



**The right product for every application.** Also for renovation projects.

# House Connections & Service Lines



## Service Lines



House Connections & Service Lines

## House Connections &



**Tapping valves.** Long life, choice of two tapping designs and the 360° rotatable outlet.



**Automatic fusion data input.** Easy and fast input of the necessary fusion data with the barcode reader.

## Connection Possibilities

- 1 Plastic Street Cover
- 2 Extension Spindle
- 3 ELGEF Monoblock Tapping Saddle
- 4 ELGEF Tapping Tee Modular System
- 5 ELGEF Pressure Tapping Valve
- 6 ELGEF Saddle
- 7 POLY16 Plus Tapping Saddle
- 8 Multi/Saddle Plus
- 9 Multi/Clamp Saddle
- 10 Clamp Saddle
- 11 ELGEF Reducer
- 12 ELGEF Coupler
- 13 Electrofusion Elbow
- 14 POLY16 Plus Threaded Adaptor
- 15 POLY16 Plus Threaded Adaptor
- 16 Primofit Threaded Adaptor
- 17 ELGEF Transition Fitting
- 18 PE Service Valve
- 19 Polyvalve
- 20 Stop Cock
- 21 PE Service Valve
- 22 Polyvalve
- 23 Service Valve Threaded
- 24 Drilling Device
- 25 Weldable Transition Fitting
- 26 POLY16 Plus Universal coupling
- 27 POLY16 Plus Compression Fitting
- 28 PRIMOFIT Coupling
- 29 Multi/Joint End Cap
- 30 POLY16 Plus Threaded Adapter

Under pressure tapping solutions either integral or with tapping tool are possible with most connection possibilities.

Above Ground 1 Main Line



Below Ground

2



4



3



5



6



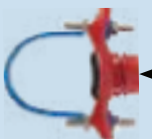
Welded plastic solutions

Mechanical solutions in metal and plastics

7



8



9



10



Connection  
Technology

1



Valves

Connection  
Technology

2



11



12



13



18



19



11



12



24



25



20



14



15



16



17



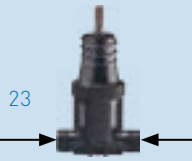
21



22



23



26



27



28



29



30



# Service Lines



House Connections  
& Service Lines

# House Connections &



**Modularity is the strength of ELGEF Plus.**

Each individual fitting and saddle is made to match and when put together form reliable leakproof connections.

**Mechanical connections.** For extending or replacing distribution lines. Tapping saddles can be installed under full working pressure conditions. No special tools are needed and the fittings can be reused. Clamp saddles for PE/PVC pipes are ideal for high pressure applications.

**Variety of connection possibilities.** Wide range of transition possibilities for different materials. Adjustable on side and ideal for installations under difficult assembly conditions.

**Peeling tools and MSA Plus Electrofusion machines.** The rotary scraper ensures exact pipe surface preparation. The Electrofusion machines offer temperature-dependent, shorter welding cycles with full traceability. Robust design, user guidance in several languages and long service life.



# House Connections & Service Lines



**Multi/Saddle Plus.** For all pipe materials (except PE). Universal saddle head for pipe size 60 mm – 355 mm to be combined with various wide range straps, including integrated shut-off.



**ELGEF Plus Tapping Valve** – you choose the direction. Select between two tapping designs and then bring the 360° rotatable outlet into position.



**Lightweight and easy to install with a robust PE service valve.** Material combinations or different jointing techniques are possible. Rely on such proven products as our ELGEF Plus modular system. Reliable possibility to activate all valves.



**Drilling device W 400.** Light-weight drilling tool for 3/4" – 2" under pressure tool. Modular package, featuring automatic feed control, flush valve and universal drills.

Service Lines



House Connections & Service Lines

House Connections &



The amount of water that is lost or unaccounted for is typically around 20-30 percent of production whereas older networks may lose as much as 50 percent. Water loss can be attributed to several causes, including leakage, metering errors, public usage such as fire fighting and pipe flushing, as well as theft.

Leakage is usually the major cause and occurs in all sections of the water grid. The causes include corrosion, material defects like ageing of gaskets, faulty installation, excessive water pressure, tree growth, water hammer, ground movement due to underground construction work, drought or freezing, and excessive loads and vibrations from road traffic.

The method of repair depends to a large extent on the site conditions, availability, preferred jointing technology, interface requirements, as well as the dimensions and type of materials.



**Repair of leaking joints under pressure.** WAL/V leak clamps provide a dependable repair solution.



**All kinds of pipe materials.** For repairs up to 20 bar pressure.

# Maintenance and Repair



## Maintenance and Repair



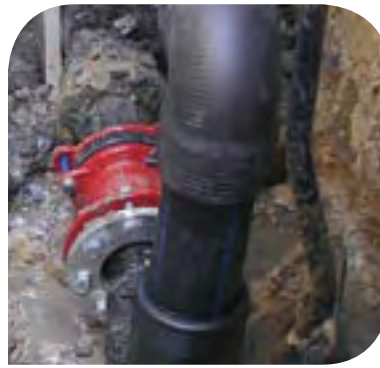
Maintenance and Repair



**Simple installation technology.** PE branch-off on an asbestos cement pipe with the MULTI/JOINT wide range coupling.



**Tight spaces.** POLY16 Plus for easy and fast repair in the trench.



**WAL/V leak clamps.** WAL/V Single enables under pressure repair of leaking bell joint connections. WAL/V Double is the solution for leaking double socket connections. Both offering a range from DN80 - DN1200, for repair on all kinds of pipe materials.

**Squeeze-off Tool, Type S1.** This mechanical device is used to squeeze off PE pipes during repair and extension work. In order to prevent the pipe becoming over stressed, the pipe tool is equipped with adjustable end stops for SDR 11 (ISO S5).

**Economic alternative to conventional pipe jointing techniques.** Quick and easy installation of the steel repair couplings. Ready for immediate use and only limited space is needed. Non-corrosive, low maintenance, multi-purpose applications.

**Stainless steel repair clamps, tapping tees and saddles.** Used for quick, easy and permanent repair of corroded or damaged water and gas pipes.

- **Under pressure repair** is made without interrupting the medium flow in the piping. This type of repair is normally used for porous, cracked pipes with pitting corrosion over longer sections of the network.

- **Pressureless repair** requires the flow of water to be stopped completely, in order to exchange larger sections of broken or corroded piping.



# Maintenance and Repair



**POLY16 Plus for mechanical connections.** A complete range of fittings allows assembly on all types of PE pipes: fast, easy, at very little expense, under all site conditions.



**Primofit – compression fittings for quick assembly without special tools.** For joining steel – steel, steel – PE, PE – PE or others. Minimum pipe preparation needed.



**Plast/Joint – the dedicated mechanical coupling.** Range from d63 – d315. For easy installation of plastic pipes. Designed with one-bolt system.



**Wide range of couplings, restraint and non-restraint.** With MULTI/JOINT 3000 we offer a full repair system. For bigger diameters we offer MULTI/JOINT XL couplings from DN300 – DN600.



**ST System – dedicated steel coupling.** Range from DN50 – DN2800. Couplings are non-restraint, tailor-made and with long insertion depths.

## Maintenance and Repair



Maintenance and Repair



For the most suitable piping system, the best jointing technology is needed to install reliable and high quality piping systems. GF Piping Systems has developed it for you.

#### Surroundings

- Underground consistency
- Trench size
- Temperature
- Site conditions

#### Interface requirements

- Connection to pumps and housing
- Integration in existing pipelines
- Staff training

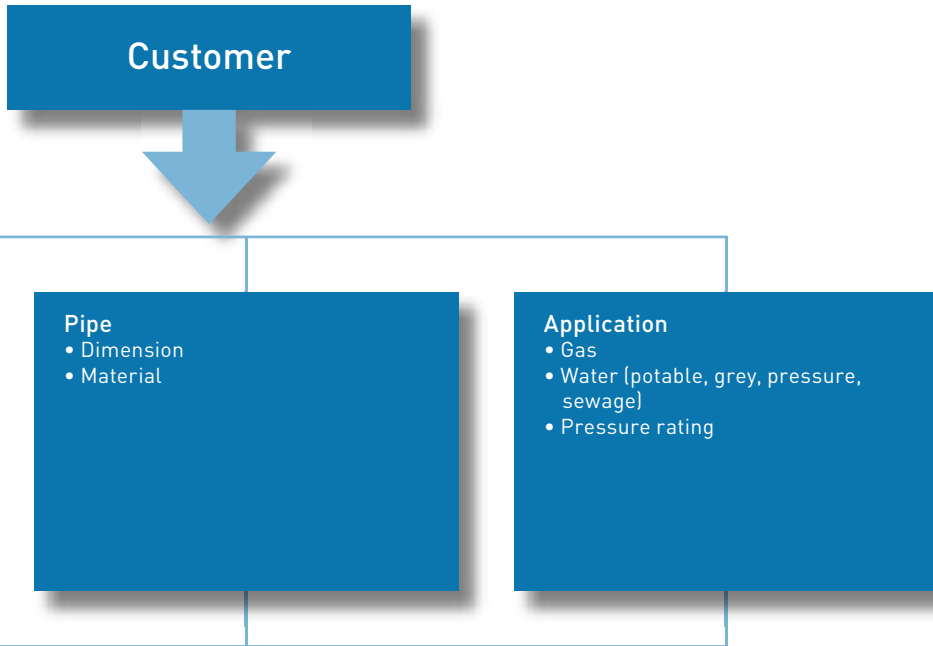


Butt Fusion



Electrofusion

# Preferred Jointing Technology



Our *plus* for your applications



Mechanical connection



Compression jointing



*Jointing Technology*

*Jointing Technology*



## Products & Systems

### Your competent partner to build, monitor and operate your network

- Always the right solution for water utilities
- Premium quality and performance
- Increased security throughout the system
- Technological expertise
- «One-stop shopping» around the world
- System solutions
- Know-how and experience
- Local support



### PE Welded Solutions

ELGEF Plus & Spigot fittings



### Welded Solutions

### Electrofusion & Butt Fusion

Units & Tools



# Your Global System Provider



**Mechanical Solutions  
with Plastic**  
POLY16 Plus fittings

Mechanical  
Solutions

**Mechanical Solutions  
with Metal**  
PRIMOFIT fittings



## Our Solutions

Maintenance  
& Repair



**Mechanical Solutions  
with Metal**  
MULTI/JOINT  
Plast/Joint  
Multi/Saddle Plus  
Multi/Clamp

*Products*



*Products*



## ELGEF Plus

### Reliable non-corrosive connections.

Whether for water, gas or other pressurised piping systems, above or below ground, ELGEF Plus is the ideal solution.

Modularity is the strength of ELGEF Plus. Each individual fitting and saddle is made to match and when put together form reliable leakproof connections.

The outstanding customising possibilities of ELGEF Plus, together with its flexibility, produce convincing and decisive customer benefits. Numerous and original solutions can be created by using just a few products.

Another hallmark of the ELGEF Plus modular concept is its limited stock requirement. As only a small number of fittings and saddles will complete a system, warehousing costs are greatly reduced.



Couplers  
d20 – 400 SDR11  
d160 – 630 SDR17



Electrofusion Fittings  
d20 – 250 SDR11



Electrofusion  
Transition Fittings  
d20 – 63, 1/2" – 2"



Saddles  
d32 – 630



Spigot Fittings  
d20 – 630 SDR11  
d90 – 630 SDR17



Flanges  
PP-V d20 – d400  
PP-St d20 – d630  
St d32 – d630  
Gasket d20 – d630



Fittings and Valves  
for Water Applications



# PE Welded Solutions



*Products*



*Products*



# Welding Technology

### High added value.

For more than 40 years GF Piping Systems has been developing and manufacturing Butt Fusion machines and tooling for the installation of plastic piping systems. This long experience is reflected in the modern design of the products, which are also suitable for use under harsh site conditions and ensure high quality jointing.

Application-oriented solutions for gas and water distribution projects are on offer. The wide product range includes hydraulically operated machines providing the possibility to connect joint recording equipment as well as fully automatic CNC-controlled Butt Fusion machines. This equipment is highly valued not just on the construction site, but also in the workshop where it is used to prefabricate entire pipeline sections and customised segmented fittings.



### Site Machines



### Workshop Machines



### Tools



# Machines and Tools



*Products*



*Products*

# +GF+

## POLY16 Plus

### Easy and fast installation.

GF Piping Systems is the mechanical jointing specialist and has been providing complete ranges of compression products for over 50 years.

Maximum reliability thanks to the unique patented active sealing system with double lip gasket.

We provide a safe and easy connection for PE, PVC and other pipe materials, under all site conditions.

Ideal for high-pressure water applications, service connections, water distribution as well as industrial applications.



### Compression Fittings



### Tapping Saddles for PE and PVC pipes



### Kits

Reduction for copper pipe and for PVC pipe



### Metal-PE Transition Fittings with brass offtake



### Metal-PE Transition Fittings with bronze offtake



### Universal Fittings and Plastic Stop Cock



### Clamp Saddles







# Primofit

**Joining PE and steel pipe without threading.**  
PRIMOFIT from GF Piping Systems comprises a complete range of metal compression fittings for connecting pipes made of PE, steel, lead and other materials.

This versatile product is available in pipe sizes from 3/8" to 3" or from 20 mm to 63 mm, offering full pull-out resistance and angular deflection.

By using different sealing materials (NBR, FPM, EPDM), PRIMOFIT provides solutions for a variety of applications ranging from water, gas, oil, to heating, fuel and compressed air piping systems.

PRIMOFIT is an easy and time-saving solution for repair situations, new installations as well as for network extensions.



Couplings and  
Compression Fittings  
with threaded end  
galvanised



Tees  
galvanised



Elbows/Caps  
galvanised



Couplings and  
Compression Fittings  
with threaded end, black



Tees/Elbows/Caps  
black



Spare Kits



Spare Kits



# Mechanical Solutions



*Products*



*Products*



## MULTI/JOINT Plast/Joint Multi/Saddle Plus

### Competent customer service.

GF Piping Systems is the connection technology specialist, supplying a complete range of products which have been used in the water and gas market for many decades. No matter how complicated your connection problem seems, we can provide solutions when it comes to connecting, repairing and tapping of all kinds of pipe materials.

We have what you need wherever you are.

We offer tailor-made solutions, a wide range of couplings, competent and worldwide customer support, fast delivery with local availability, complete packages as well as know-how and know-why for all applications.

We provide safe and reliable connections between different pipe materials and pipe dimensions even when operating under the most demanding conditions.



**MULTI/JOINT 3000**  
wide-range couplings  
restraint – non-restraint  
DN50 – DN300



**MULTI/JOINT XL**  
wide-range couplings  
non-restraint  
DN300 – DN600



**ST-System**  
dedicated couplings and flange  
adapters with or without reduction  
DN50 – DN2800



**FGR**  
stainless steel couplings  
restraint – non-restraint  
DN25 – DN2000



**Plast/Joint**  
mechanical connection for  
plastic pipes  
restraint – non-restraint



**Draw-Lock**  
solution to connect metal to PE  
DN50 – DN300



**Multi/Clamp**  
stainless steel repair clamps  
tapping tees and saddles



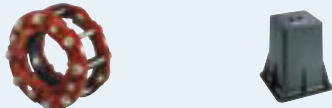
**Multi/Saddle Plus**  
wide range of tapping saddles  
with or without shut-off mechanism  
DN60 – DN300



**Others**  
W400 drilling device  
WAL/V leak clamp  
GRP street covers



# Maintenance and Repair



Products



Products



### ISO Certified Management Systems

According to the quality management system ISO 9001 and environmental certification ISO 14001, the high quality of our products is guaranteed. Our QM-System is developed on a continuous basis to achieve more customer satisfaction. Improved performance while taking environmental issues into consideration has become a fixed part of our philosophy.



### Accredited Test Centre

Our testing laboratory is certificated according to SN EN ISO 9001 and SN EN ISO 14001. The accreditation confirms our competence in testing components for piping systems as well as pipes, pipe connections, fittings, manual- and automatic-valves and flow meters. Accredited certification is also important when exchanging test reports as only such reports are accepted by approval board worldwide and increasingly by customers.



### Documentation/Online Catalogue

Find fundamentals about plastic piping systems as well as working information in printed form or on the internet. Our website also provides information about CAD-library, calculation tool, planning fundamentals and approvals as well as inspection certificates. All that is required to get a specific certificate is the product code and batch number.



### Technical Support

For technical support or information about application please contact our specialists of our sales companies and representatives mentioned on the last page or visit our website: [www.piping.georgfischer.com](http://www.piping.georgfischer.com)

# Pipe Connection Technology since 1802

## 50 Years of Know-how in Plastics

### Training

GF Piping Systems guarantees the safe and faultless installation of its products by means of these carefully targeted customer-training courses, offered in numerous countries around the world. As a result, customers and dealers are able to rely on well-trained GF Piping Systems employees, who

have both knowledge of the products and application know-how. Our training centre in Schaffhausen offers the perfect opportunity for both staff and customers to receive in-depth knowledge on applications and markets for our systems.



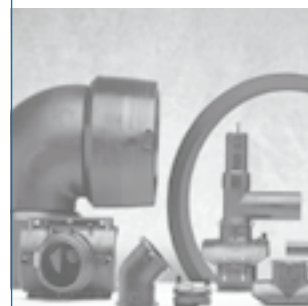
### PE – Always the best choice

Nowadays, PE plays an important role in Water Utilities. Georg Fischer continues to innovate and bring new network components into the PE system which traditionally were constructed in corrosion-sensitive material. Water-proof, stable, weather-resistant, light-weight and easy-to-handle materials are required. PE offers the following advantages:

- Light-weight
- Outstanding Flexibility
- Good abrasion resistance
- Corrosion resistance
- High impact resistance at low temperatures
- Good mechanical resistance
- Safe and easy jointing by welding
- Excellent cost-performance ratio
- A long, proven track record in water application



Information












# Product Literature

Product		Languages available	Transport Lines	Distribution Lines	House Connections	Maintenance & Repair	Hydrants	Butt Fusion	Electrofusion	Mechanical	Repair	Tapping
1	<b>POLY16 Plus Compression Fittings</b> (Foldable Leaflet) Code: COLL116-ENG-07/06	E		x	x	x	x			x	x	
2	<b>Mechanical Tapping Saddle</b> (Flyer) Code: FL110-ENG-03/06	E		x	x	x				x	x	x
3	<b>POLY16 Plus - Plastic Stop Cocks</b> (Flyer) Code: FL118-ENG-09/06							x	x	x	x	x
4	<b>POLY16 Plus - Universal Fittings</b> (Flyer) Code: FL115-ENG-09/06	E		x	x	x	x			x	x	
5	<b>POLY16 Plus &amp; POLYFAST AZ Compression Fitting/ Clamp Saddles</b> (Brochure) Code: Fi5764/4	D/E/F		x	x	x	x			x	x	x
6	<b>Compression Fittings/ Blue Clamp Saddle</b> (Flyer) Code: FL111-ENG	E		x	x	x				x	x	x
7	<b>MULTI/JOINT Products</b> Code: WA 2089p/0606/EN	E/RUS	x	x		x				x	x	
8	<b>ST-System</b> Code: WA 2084/0506/GB	E	x	x		x	x			x	x	
9	<b>Draw-Lock System</b> Code: WA 2072s/0605/GB	D/E/F/NL		x		x	x			x	x	

Product		Languages available	Transport Lines	Distribution Lines	House Connections	Maintenance & Repair	Hydrants	Butt Fusion	Electrofusion	Mechanical	Repair	Tapping
10	<b>Draw-Lock System Products</b> Code: WA 2072/0605/GB	D/E		x		x	x			x	x	
11	<b>Drilling Device W400</b> Code: WA 2046/0705/GB	E			x	x	x			x	x	x
12	<b>Stainless Steel Pipe Couplings</b> Code: WA 2515/1206/GB	D/E	x	x	x	x	x			x	x	x
13	<b>Market Segment Brochure Water &amp; Gas</b> Code: Fi 5775/4a	D/E										
14	<b>Multi/Saddles Plus</b> Code: WA 2071s/0906/GB	E			x	x				x	x	x
15	<b>WAL/V</b> Code: WA 2063/0806/GB	E	x	x		x	x			x	x	
16	<b>Plast/Joint</b> Code: WA 2078/0906/GB	E	x	x	x	x	x			x	x	
17	<b>GRP Street Covers</b> Code: WA 2079/0806/GB	E		x	x		x			x		
18	<b>Inserts</b> Code: WA 2073/0900/GB	E	x	x		x	x			x	x	

Information

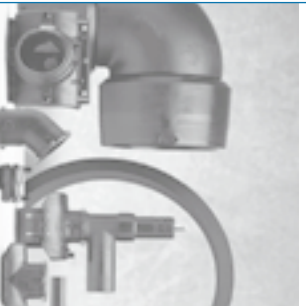


Product		Languages available	Transport Lines	Distribution Lines	House Connections	Maintenance & Repair	Hydrants	Butt Fusion	Electrofusion	Mechanical	Repair	Tapping
19	GF 160 			x			x	x			x	
20	GF 250 			x			x	x			x	
21	GF 315 			x			x	x			x	
22	GF 400 		x	x			x	x			x	
23	GF 500 		x	x			x	x			x	
24	GF 630 		x	x			x	x			x	
25	KL 160 			x	x		x	x			x	
26	KL 250 			x			x	x			x	
27	KL 315 			x			x	x			x	

Product		Languages available	Transport Lines	Distribution Lines	House Connections	Maintenance & Repair	Hydrants	Butt Fusion	Electrofusion	Mechanical	Repair	Tapping
28	KL 500		x	x				x			x	
29	KL 630		x					x			x	
30	GF 800		x					x			x	
31	GF 1000		x					x			x	
32	GF 1200		x					x			x	
33	WR 100		x	x	x	x	x	x			x	
34	WM 315		x	x			x	x			x	
35	WM 500 Plus		x	x				x			x	
36	WM 630 Plus		x	x				x			x	



# Information



Product		Languages available	Transport Lines	Distribution Lines	House Connections	Maintenance & Repair	Hydrants	Butt Fusion	Electrofusion	Mechanical	Repair	Tapping
37	<b>MSA 210</b> 		x	x	x	x	x		x			
38	<b>PRIMOFIT – the real name in pipe couplings</b> 	D/E			x	x	x			x	x	
39	<b>The New PE Hydrant</b> Code: GMST 5977/4 (09.06) 	D/E					x					
40	<b>MSA Electrofusion Units</b> Code: GMST 5904/4 (11.05) 	D/E	x	x	x	x	x		x			
41	<b>ELGEF Plus Branch Fitting</b> Code: Fi 5542/4e (3.04) 	D/E		x	x				x			x
42	<b>ELGEF Plus Pressure Tapping Valve</b> Code: Fi 5574/4 (3.03) 	D/E			x				x			x
43	<b>ELGEF Plus Pressure Tapping Valve</b> Code: Fi 5577/4 (3.03) 	D			x				x			x
44	<b>Hydrant Connections</b> Code: GMST 5811/4 (08.06) 	D/E			x		x		x			
45	<b>ELGEF Plus Electrofusion System</b> Code: GMST 5949/4 (9.06) 	D/E	x	x	x		x		x			

Product		Languages available	Transport Lines	Distribution Lines	House Connections	Maintenance & Repair	Hydrants	Butt Fusion	Electrofusion	Mechanical	Repair	Tapping
46	<b>Datasheet</b> <b>POM Service Valve</b> <b>male thread</b>  Code: GMST 5984/4 (09.06)	D/E			x							
47	<b>Flyer</b> <b>POM Service Valve</b> <b>male thread</b>  Code: GMST 5992/4 (09.06)	D/E			x							
48	<b>Datasheet</b> <b>POM Service Valve</b> <b>PE Spigot Ends</b>  Code: GMST 5982/4	D/E			x							
49	<b>Flyer</b> <b>POM Service Valve</b> <b>PE Spigot Ends</b>  Code: GMST 5991/4	D/E			x							
50	<b>The New Plastic Gate</b> <b>Valve for House</b> <b>Service Connections</b>  Code: GMST 5996/4 (9.06)	D/E			x							
51	<b>Water Treatment</b>  Code: GMST 5908/1	D										
52	<b>Building Services</b>  Available in 2008	D										

Information



# GF Piping Systems → worldwide at home

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

[www.piping.georgfischer.com](http://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.

## Adding Quality to People's Lives

### Australia

George Fischer Pty Ltd  
Riverwood NSW 2210 Australia  
Phone +61(0)2 9502 8000  
[australia.ps@georgfischer.com](mailto:australia.ps@georgfischer.com)  
[www.georgfischer.com.au](http://www.georgfischer.com.au)

### Austria

George Fischer  
Rohrleitungssysteme GmbH  
3130 Herzogenburg  
Phone +43(0)2782 856 43-0  
[austria.ps@georgfischer.com](mailto:austria.ps@georgfischer.com)  
[www.georgfischer.at](http://www.georgfischer.at)

George Fischer Fittings GmbH  
3160 Traisen  
Phone +43 (0)2762 90300  
[fittings.ps@georgfischer.com](mailto:fittings.ps@georgfischer.com)  
[www.fittings.at](http://www.fittings.at)

### Belgium/Luxembourg

George Fischer NV/SA  
1070 Bruxelles/Brüssel  
Phone +32(0)2 556 40 20  
[be.ps@georgfischer.com](mailto:be.ps@georgfischer.com)  
[www.georgfischer.be](http://www.georgfischer.be)

### Brazil

George Fischer Ltda  
04795-100 São Paulo  
Phone +55(0)11 5687 1311  
[br.ps@georgfischer.com](mailto:br.ps@georgfischer.com)

### China

George Fischer  
Piping Systems Ltd Shanghai  
Pudong, Shanghai 201319  
Phone +86(0)21 58 13 33 33  
[china.ps@georgfischer.com](mailto:china.ps@georgfischer.com)  
[www.cn.piping.georgfischer.com](http://www.cn.piping.georgfischer.com)

### Denmark/Iceland

George Fischer A/S  
2630 Taastrup  
Phone +45 (0)70 22 19 75  
[info.dk.ps@georgfischer.com](mailto:info.dk.ps@georgfischer.com)  
[www.georgfischer.dk](http://www.georgfischer.dk)

### France

George Fischer SAS  
95932 Roissy Charles de Gaulle Cedex  
Phone +33(0)1 41 84 48 84  
[fr.ps@georgfischer.com](mailto:fr.ps@georgfischer.com)  
[www.georgfischer.fr](http://www.georgfischer.fr)

### Germany

George Fischer GmbH  
73095 Albershausen  
Phone +49(0)7161 302-0  
[info.de.ps@georgfischer.com](mailto:info.de.ps@georgfischer.com)  
[www.georgfischer.de](http://www.georgfischer.de)

### India

George Fischer Piping Systems Ltd  
400 076 Mumbai  
Phone +91 224007 2001  
[in.ps@georgfischer.com](mailto:in.ps@georgfischer.com)  
[www.georgfischer.in](http://www.georgfischer.in)

### Italy

George Fischer S.p.A.  
20063 Cernusco S/N (MI)  
Phone +3902 921 861  
[it.ps@georgfischer.com](mailto:it.ps@georgfischer.com)  
[www.georgfischer.it](http://www.georgfischer.it)

### George Fischer TPA Srl

Via Bonazzi, 32  
IT-40013 Castel Maggiore (BO)  
Phone +39 051 632 42 11  
[tpa.ps@georgfischer.com](mailto:tpa.ps@georgfischer.com)  
[www.alprene.com](http://www.alprene.com)

### Japan

George Fischer Ltd  
556-0011 Osaka,  
Phone +81(0)6 6635 2691  
[jp.ps@georgfischer.com](mailto:jp.ps@georgfischer.com)  
[www.georgfischer.jp](http://www.georgfischer.jp)

### Korea

George Fischer Piping Systems  
Guro-3 dong, Guro-gu, Seoul, Korea  
Phone +82(0)2 2081 1450  
Fax +82(0)2 2081 1453  
[kor.ps@georgfischer.com](mailto:kor.ps@georgfischer.com)

### Malaysia

George Fischer (M) Sdn. Bhd.  
40460 Shah Alam, Selangor  
Phone +60 (0)3 5122 5585  
[conne.kong@georgfischer.com](mailto:conne.kong@georgfischer.com)

### Mexico

George Fischer S.A. de C.V.  
Apodaca, Nuevo Leon  
CP66636 Mexico  
Phone +52 (81)1340 8586  
Fax +52 (81)1522 8906

### Middle East

George Fischer Piping Systems  
Dubai, United Arab Emirates  
Phone +971 4 289 41 20  
[gfdubai@emirates.net.ae](mailto:gfdubai@emirates.net.ae)  
[www.piping.georgfischer.com](http://www.piping.georgfischer.com)

### Netherlands

George Fischer N.V.  
8161 PA Epe  
Phone +31(0)578 678 222  
[nL.ps@georgfischer.com](mailto:nL.ps@georgfischer.com)  
[www.georgfischer.nl](http://www.georgfischer.nl)

George Fischer WAGA NV  
NL-8160 AG Epe  
Phone +31 (0)578 678 378  
[waga.ps@georgfischer.com](mailto:waga.ps@georgfischer.com)  
[www.waga.nl](http://www.waga.nl)

### Norway

George Fischer AS  
1351 Rud  
Phone +47(0)67 18 29 00  
[no.ps@georgfischer.com](mailto:no.ps@georgfischer.com)  
[www.georgfischer.no](http://www.georgfischer.no)

### Poland

George Fischer Sp. z o.o.  
02-226 Warszawa  
Phone +48(0)22 313 10 50  
[poland.ps@georgfischer.com](mailto:poland.ps@georgfischer.com)  
[www.georgfischer.pl](http://www.georgfischer.pl)

### Romania

George Fischer  
Piping Systems Ltd  
020257 Bucharest - Sector 2  
Phone +40(0)21 230 53 80  
[ro.ps@georgfischer.com](mailto:ro.ps@georgfischer.com)

### Russia

George Fischer Piping Systems  
Moscow 125047  
Tel. +7 495 258 60 80  
[ru.ps@georgfischer.com](mailto:ru.ps@georgfischer.com)

### Singapore

George Fischer Pte Ltd  
528 872 Singapore  
Phone +65(0)67 47 06 11  
[sgp.ps@georgfischer.com](mailto:sgp.ps@georgfischer.com)  
[www.georgfischer.com.sg](http://www.georgfischer.com.sg)

### Spain/Portugal

George Fischer S.A.  
280046 Madrid  
Phone +34(0)91 781 98 90  
[es.ps@georgfischer.com](mailto:es.ps@georgfischer.com)  
[www.georgfischer.es](http://www.georgfischer.es)

### Sweden/Finland

George Fischer AB  
12523 Älvsjö-Stockholm  
Phone +46(0)8 506 775 00  
[info.se.ps@georgfischer.com](mailto:info.se.ps@georgfischer.com)  
[www.georgfischer.se](http://www.georgfischer.se)

### Switzerland

George Fischer  
Rohrleitungssysteme (Schweiz) AG  
8201 Schaffhausen  
Phone +41(0)52 631 30 26  
[ch.ps@georgfischer.com](mailto:ch.ps@georgfischer.com)  
[www.piping.georgfischer.ch](http://www.piping.georgfischer.ch)

### Taiwan

George Fischer Piping Systems  
San Chung City, Taipei Hsien  
Phone +886 2 8512 2822 Ext. 15  
[uk.ps@georgfischer.com](mailto:uk.ps@georgfischer.com)  
Fax +886 2 8512 2823

### United Kingdom/Ireland

George Fischer Sales Limited  
Coventry, CV2 2ST  
Phone +44(0)2476 535 535  
[uk.ps@georgfischer.com](mailto:uk.ps@georgfischer.com)  
[www.georgfischer.co.uk](http://www.georgfischer.co.uk)

### USA/Canada/Latin America/Caribbean

George Fischer LLC  
Tustin, CA 92780-7258  
Phone +1(714) 731 88 00  
Toll Free 800/854 40 90  
[us.ps@georgfischer.com](mailto:us.ps@georgfischer.com)  
[www.us.piping.georgfischer.com](http://www.us.piping.georgfischer.com)

### Export

George Fischer  
Piping Systems (Switzerland) Ltd.  
8201 Schaffhausen  
Phone +41(0)52 631 30 03  
Fax +41(0)52 631 28 93  
[info.export@georgfischer.com](mailto:info.export@georgfischer.com)  
[www.piping.georgfischer.ch](http://www.piping.georgfischer.ch)

GMST 6055/4b (7.09)

© George Fischer Piping Systems Ltd  
CH-8201 Schaffhausen/Switzerland, 2006  
Printed in Switzerland

# +GF+

## GEORG FISCHER PIPING SYSTEMS