

GF Piping Systems

+GF+

Industry

The right solution
for your applications



Built for the future

Butterfly Valve 565
Lug-Style



Superior in every way, our high-performance thermoplastic butterfly valve enables the safe and sustainable control of fluids for all your water applications.

PVC System

Comprehensive simplicity

Most comprehensive system with very good chemical resistance characteristics. Typical for the system are the fast and safe connections by cementing with low investment for tools and equipment.



+ Main benefits:	<ul style="list-style-type: none">• Comprehensive product range• Very good chemical resistance• Low costs for installation equipment• Food and drinking water approvals
Main applications:	Water & waste treatment, chemical processing, potable water systems, industrial applications
Product range:	1/8" - 24" (ANSI/ASTM)
Pressure rating:	Varies by size
Temperature range:	32°F to 140°F (0°C to 60°C)
Joining technology:	Solvent cement, threaded, flanged
Material:	PVC Additional offering: PVC-U, metric system (6mm to 400mm)

CPVC System

High performance CPVC

System with superior chemical resistance and excellent mechanical properties at high temperatures. Typical for the system are the fast and safe connections by cementing with low investment for tools and equipment.



+ Main benefits:

- Increased temperature range
- Superior chemical resistance
- Improved impact resistance
- Excellent fire resistance capabilities
- Low costs for installation equipment
- Long support distances

Main applications: Hot & cold water distribution, chemical processing, hot corrosive waste streams, industrial applications

Product range: 1/4" - 24" (ANSI/ASTM)

Pressure rating: Varies by size

Temperature range: 32°F to 200°F (0°C to 93°C)

Joining technology: Solvent cementing, threaded, flanged

Material: CPVC (Corzan®)
Additional offering: PVC-C, metric system (16mm to 225mm)

Stress Less

Pipe support system

Stress Less® Pipe Support System is engineered to protect and extend the life of thermoplastic piping system by eliminating stress transfer to the pipe caused by thermal expansion or overtightening of clamps onto the pipe. Stress Less® Pipe Support System includes pipe guides, clevis hangers, and valve supports.



+ Main benefits:

- Extends the life of a piping system
- Protects against thermal expansion and seismic conditions
- Multiple mounting configurations
- Corrosion and chemical resistant
- Exceeds piping support standards

Main applications:

With both metric and IPS (inch) sizes, Stress Less® can support and protect most plastic piping systems. (PVDF, PP, PE, PVC, CPVC, ABS, waste, and double-contained piping systems.)

Product range:

IPS: ½" - 12"

Metric: 20mm - 315mm

Material:

Pipe support plastic inserts –

Polypropylene with UV inhibitors

Pipe support metal hoops - Two finishes available: trivalent gold chromiumcoated steel or 304 Stainless Steel

COOL-FIT System

Maintenance-free system

A maintenance-free pre-insulated plastic piping system for chilled water, glycol and brine. Handling fluid temperatures down to -58°F, it remains corrosion-free and vapor tight for at least 25 years on both indoor and outdoor installations. Electro-fusion jointing technology optimizes the installation time and cost.



- + Main benefits:**
- 100% maintenance-free
 - 65% less weight
 - 50% quicker installation
 - Higher energy efficiency
 - UV resistant

Main applications: Chilled water, glycol, and brines

Product range: 1" - 18" (d32 to d450 mm)

Pressure rating: 150 psi

Temperature range: -58°F to 140°F (-50°C to 60°C)

Jointing technology: Electrofusion

Material: Carrier pipe and fittings: HDPE Jacket: HDPE on pipes and PUR on fittings
Insulation: PUR (Polyurethane) foam closed cell

ecoFIT System

Economic and ecological solution

Heavy duty piping system with excellent impact strength in all climatic conditions. Good chemical and abrasion resistance up to ambient process temperatures. Highly cost-efficient system assembled from a very comprehensive product range.



- + Main benefits:**
- No corrosion
 - UV and weather-resistant
 - Outstanding abrasion resistance
 - High impact strength
 - Wide choice of jointing technologies

Main applications: Municipal water, water treatment, energy, marine, cooling, chemical process industry

Product range: 3/4" - 24"

Pressure rating: Up to 335 psi

Temperature range: -58°F to 140°F (-50 to 60°C)

Jointing technology: Electrofusion, socket fusion, butt fusion, IR fusion

Material: PE

PROGEF System

Economic purity

Heavy duty piping system with good impact strength in non freezing indoor conditions. Very good chemical and abrasion resistance up to high process temperatures. Very cost-efficient system assembled from a comprehensive product range.



Main benefits:

- High impact strength
- Good chemical resistance
- Silicone/ Oil free for PROGEF Plus
- BCF fusion for PROGEF Natural

Main applications:

Water treatment, microelectronics
chemical process industry

Product range:

PROGEF Standard: 16 mm - 500 mm

PROGEF Plus: 16 mm - 315 mm

PROGEF Natural: 20 mm - 110 mm

Pressure rating:

Up to 10 bar

Temperature range:

32°F to 176°F (0°C to 80°C)

Joining technology:

IR Plus fusion, socket fusion, butt fusion,
BCF fusion (PROGEF Natural only)

Material:

PP

SYGEF System

Outstanding purity and performance

Heavy duty piping system with good impact strength in all climatic conditions. Excellent chemical and abrasion resistance up to highest process temperatures. High performance system assembled from a wide product range.



+ Main benefits:

- High operating temperature range
- Outstanding chemical resistance
- Extremely smooth surface
- Excellent purity for SYGEF Plus

Main applications: Microelectronics, energy, chemical process industry, water treatment, cooling

Product range: SYGEF Standard: 16 mm - 315 mm
SYGEF Plus: 20 mm - 315 mm

Pressure rating: Up to 16 bar

Temperature range: -4°F to 284°F (-20°C to 140°C)

Joining technology: IR fusion, BCF fusion, butt fusion, socket fusion

Material: PVDF

SYGEF ECTFE

Solution for aggressive chemical applications

Engineered to handle extreme chemical applications under high pressure and temperatures. The excellent material resistance to acids, bases, and oxidizing agents makes ECTFE an effective solution to the many demanding industrial application.



- + Main benefits:**
- High operating temperature range
 - Outstanding chemical resistance
 - Extremely smooth surface
 - Long service life

Main applications: Chemical processing industry, semiconductor, pharmaceutical, and chemical storage and transfer

Product range: SYGEF ECTFE: 20 mm - 110 mm

Pressure rating: Up to 145 psi (10 bar)

Temperature range: 32°F to 176°F (0°C to 80°C)

Joining technology: IR Plus fusion

Material: ECTFE Halar

MULTI/JOINT® 3000

Perfect fit for you piping systems

MULTI/JOINT® 3000 Plus fittings are durable, corrosion-proof, and have a technical life expectancy of 50 years. Connections with MULTI/JOINT® provide you peace of mind for all your piping projects.



- + Main benefits:**
- Reliable connections between any and all pipe materials
 - Quick, safe, and simple installation
 - One piece, stab-fit installation
 - No need for thrust blocks
 - Long service life up to 50 years

Main applications: Water distribution, wastewater, industrial applications

Product range: 2" - 41"

Pressure rating: Restraint fittings are suitable for applications in water up to 150 psi
Non-restraint connections are designed for water pressure up to 232 psi

Fitting material: Ductile Iron

Valves and Actuation

Upgrade through modularity

GF valves and actuators stand for reliable process control and long duty operation. The range comprises ball-, diaphragm- and butterfly valves with pneumatic and electric actuators as well as a wide range of process control valves.



- + Main benefits:**
 - Wide range of valves, actuators and accessories
 - Long time reliable operation
 - High corrosion resistance
- Main applications:** Water treatment, microelectronics, chemical process industry, energy
- Product range:**
 - Ball valves: DN10 - DN150,
 - Diaphragm valves: DN15 - DN150
 - Butterfly valves: DN50 - DN600
 - Process valves: DN10 - DN100
 - Electric and pneumatic actuators open/close and continuous control
- Joining technology:** Cementing, socket fusion, butt fusion, IR fusion, BCF fusion threaded union and flanged
- Material:** PVC-U, PVC-C, ABS, PP-H, PVDF, PP fiberglass reinforced

Measurement and Control

Smart simplicity

GF Signet products offer a comprehensive range of advanced flow and analytical technology for industrial liquid monitoring and measurement. Signet sensors and transmitters are designed to be cost efficient, accurate, dependable and easy-to-use.



+ Main benefits:

- Simple operation and installation
- Sensors for all major parameters
- High corrosion resistance of housings
- Global availability of products

Main applications:

Water distribution, water treatment, chemical process industry, irrigation, cooling

Product range:

Flow, conductivity, pH, ORP (Redox), temperature, pressure, level, dissolved oxygen and chlorine

Joining technology:

Special installation fittings, strap on saddles, ISO/NPT pipe threads

Material:

PP, PVC-U, PVC-C, PVDF, Ryton body, PTFE junction, 316L stainless steel

CONTAIN-IT Clear PVC

Secondary containment piping system

The Contain-It™ piping system comprises lightweight and clear PVC split pipes and fittings that are easy to fit over primary piping systems. When combined with GF's variety of primary piping systems, the Contain-It™ system is suitable for virtually any piping application, from pressure process lines to drainage waste systems.



+ Main benefits:

- Economical split-fitting design
- Fits over any primary carrier piping
- Clear resin allowing visual leak detection

Main applications: Industrial & commercial laboratories, pharmaceuticals, hospitals, life science, biotechnology

Product range: 3" - 6"

Temperature range: 32°F to 140°F (0°C to 60°C)

Joining technology: Injection Bonding System

Material: Clear Polyvinyl Chloride (Clear PVC)

Fuseal PP Special Waste

Engineered piping solution for safe conveyance of Special Waste

Fuseal® PP is primarily an Electrofusion piping system that is also complemented by a full line of Fast-Lock™ Mechanical Joint fittings; the two fitting types are interchangeable, easy to install, and perfectly reliable for special waste drainage.



+ Main benefits:

- Maintenance free service with low installation & ownership cost
- 30 ft (15 PSI) max. head pressure test for DWV applications
- Outstanding chemical resistance
- Light, flexible, tough, and dependable

Main applications: Special/corrosive waste, institutional & commercial laboratories, life sciences, pharmaceutical, biotechnology

Product range: Fuseal® PP Electrofusion:
1½" - 18" Schedule 40
1½" - 12" Schedule 80
Fuseal® Fast-Lock Mechanical Joint
1½" - 4" Schedule 40/80

Temperature range: 32°F to 212°F (0°C to 100°C)

Joining technology: Electrofusion, butt fusion, Fast-Lock MJ

Material: Polypropylene Flame Retardant (PPFR)
Polypropylene Non-Flame Retardant (PPNFR)

Fuseal 25/50 PVDF

Engineered piping solution for safe conveyance in return air plenum

Fuseal 25/50™ PVDF piping systems are engineered to solve many of the problems associated with return air plenum piping or handling aggressive chemicals at elevated temperatures.



- + Main benefits:**
- Complete system is UL723/ASTM E-84 Certified
 - 30 ft (15 PSI) max. head pressure test for DWV applications
 - Superior flame and smoke rating
 - Maintenance free for service life
 - Low installation cost
 - Outstanding chemical resistance

Main applications: Return air plenum special waste piping systems, high temperature flow stream conveyance, institutional & commercial laboratories, life sciences, pharmaceutical, biotechnology

Temperature range: -4°F to 284°F (-20°C to 140°C)

Product range: 1½" - 6" Schedule 40

Joining technology: Electrofusion

Material: PVDF (Polyvinylidene Fluoride) Kynar

Fuseal Squared Double Containment

Engineered piping solution for double walled conveyance of special waste

Fuseal Squared® in Polypropylene or PVDF combines the advantages of corrosion-resistant and flame retardant drainage piping with the added security of double-containment.



+ Main benefits:

- Maintenance free for service life
- 30 ft (15 PSI) max. head pressure test for carrier pipe
- Outstanding chemical resistance
- Light, flexible, tough, and dependable

Main applications: Special/Corrosive waste, institutional & commercial laboratories, life sciences, pharmaceutical, biotechnology

Product range: 1½" - 8" inner pipe (PPFR or PPNFR)
4" - 12" outer pipe (PPFR or PPNFR)
1½" - 6" inner pipe (PVDF)

Temperature range: 32°F to 212°F (0°C to 100°C) PP carrier
-4°F to 284°F (-20°C to 140°C) PVDF carrier

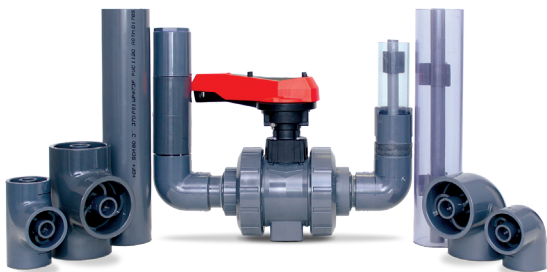
Joining technology: Electrofusion

Material: Polypropylene Non-Flame Retardant (PPNFR)
Polypropylene Flame Retardant (PPFR)

Double See Double Containment

Engineered simplicity

Double-See™ is fast and easy to install, and is available with a complete selection of pipes, fittings, termination fittings, closure couplings, leak detection, and containment boxes.



+ Main benefits:

- Fast and simple installation
- ASME B31.3 compliant
- Outer pipe is pressure rated
- PVC and/or CPVC

Main applications: Secondary containment for personal safety, equipment and environmental protection, chemical applications

Product range: ½" - 8" inner pipe
2" - 12" outer pipe

Temperature range: 32°F to 140 °F (0°C to 60°C) PVC
32°F to 200°F (0°C to 93°C) CPVC

Joining technology: Solvent weld

Material: Polyvinyl Chloride (PVC) Grey
Chlorinated Polyvinyl Chloride (CPVC)
Clear Polyvinyl Chloride (Clear PVC)

Pre-insulated piping solutions

Engineered factory insulated piping

Factory insulated solutions with all types of carrier pipe, optimized insulation, numerous jacket materials and in-house design/supply of integral heat tracing.



+ Main benefits:

- Delivered ready-to-install
- Optimized energy efficiency
- Optimized cost of installation
- In-house heat tracing design capabilities

Main applications:

Freeze protection, temperature control, cryogenics, District Energy (Heating and Cooling)

Product range:

Pre-insulated pipes from ½" to 48"
Customized Insulation kits (half-shells)
for all fittings and components

Materials:

All plastic, metal and composite pipes can be pre-insulated.
HDPE, PVC, aluminum and stainless-steel jackets

Welding Machines

Benchmarking technology

Welding machines using patented technologies for workshop and on site use. The Global service system ensures a long and profitable use of the equipment. Offering all welding methods provides the best choice for clients and their applications.



Main benefits:

- Most advanced welding technology
- Efficiency through patented technologies
- Data recording for quality documents
- Wide range of accessories

Main applications:

Water treatment, energy, cooling, chemical process industry, microelectronics, marine

Product range:

16 mm - 1200 mm
workshop and on site machines

Joining technology:

Infrared fusion (IR), Bead and crevice free fusion (BCF), butt fusion, socket fusion, electro fusion

Material:

PE, PP, PVDF, PB

Custom Products

Customized solutions to fit your needs

GF provides a variety of custom solutions. Sometimes this is as simple as reproducing a spool piece a hundred times in our facility, saving the effort of doing so in the field; other times it is may be much more complex, such as building an engineered skid with hundreds of individual parts.



- + Main benefits:**
- Fabrication building
 - Custom spool pieces
 - Skid building
 - Custom enclosures
 - We provide detailed 3D model drawings

Our ability to custom fabricate components in our facilities allows our customers to leverage time and money by having nearly-complete systems delivered to the job. Our Engineering, Quality Control, and Fabrication teams pride themselves on being the best, and they deliver products with amazing attention to detail. We frequently exceed the expectations of our most demanding customers with our tight tolerances and quality of work.

Our customer products feature specialized assembly designs, tailored solutions, and prefabricated modules, all produced with clean room quality. We accommodate lot sizes from one and ensure top performance through testing in audited laboratories.

Specialized Solutions

Taking care of your needs

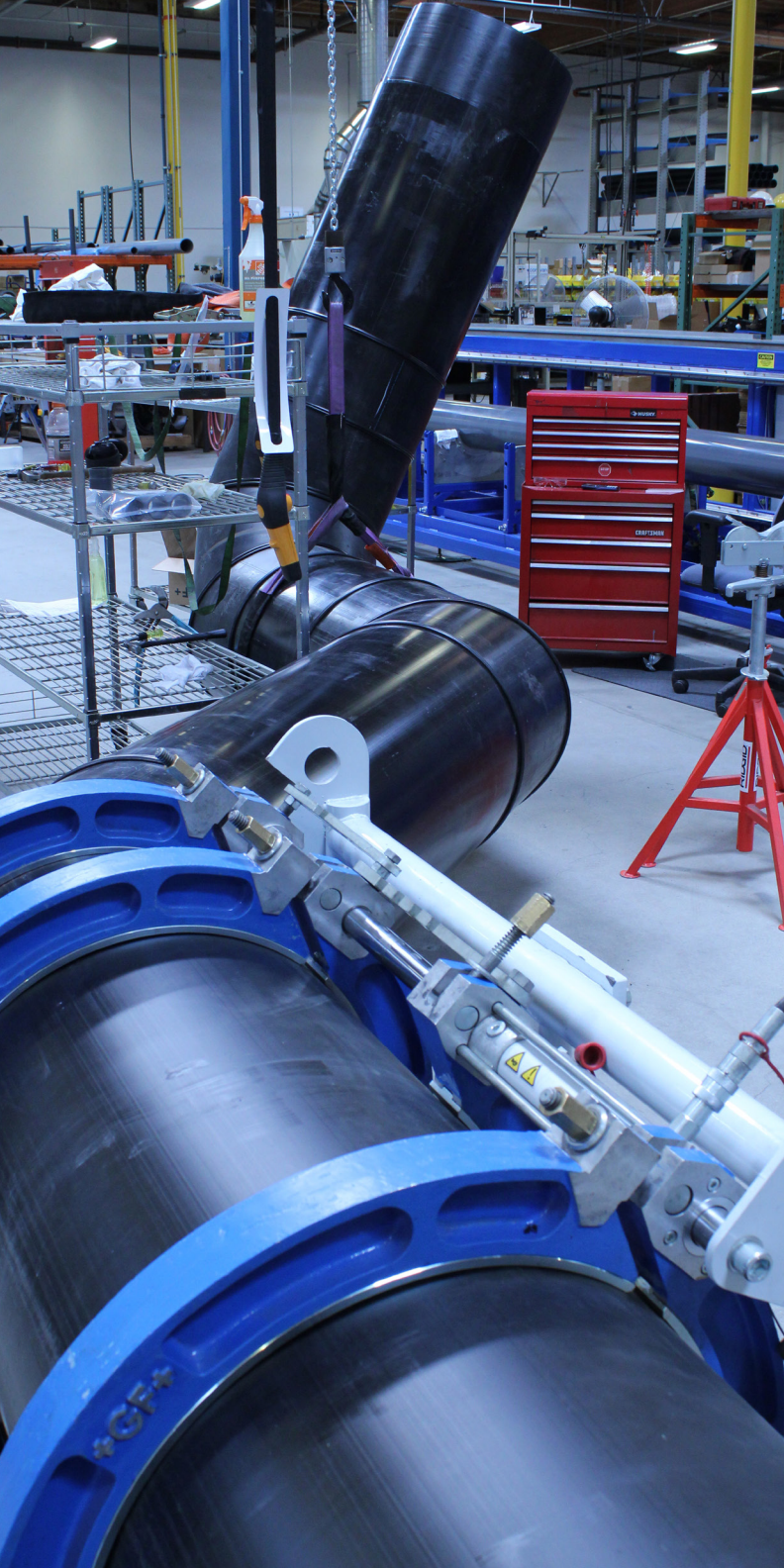
GF supports the design and installation of state-of-the-art plastic piping systems, so that owners and planners can concentrate on their daily business without interruption. GF is present every step of the way, from providing planning support on new projects to testing the condition of old systems.



- + Main benefits:**
- Increase quality of your piping installation
 - Reduce costs in implementation
 - Increase safety in your operation
 - Save time in preparation & planning

GF Piping Systems and its Specialized Solutions cover every aspect of a project's process, from the design phase all the way through to installation and maintenance.

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.



Worldwide at home

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

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