GF Piping Systems

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ASTM Portfolio

The right solution for your applications

ASTM Portfolio

Superior Piping Systems for the World's Most Demanding Applications

Recognized for superior quality for more than 50 years, GF Piping Systems is the industry's leading manufacturer of plastic piping systems.

GF Piping Systems produces the pipes and fittings for domestic and international markets in metric and inch standards across many materials. GF products complement the strong valve, measurement and control product offerings, making Georg Fischer Piping Systems a full system solution provider in America and across the globe.

Backed by an unwavering dedication to innovation and unrivalled technical expertise, GF serves industries around the world including chemical processing, energy, marine, cooling technology, water treatment, microelectronics, and plumbing systems for residential, commercial, and high-rise construction.

GF also produces a full range of specialty piping systems for emerging technologies including renewable energy, algae and biotech development.

Locally Produced, Globally Available

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PVC Piping Systems

Comprehensive simplicity

GF PVC piping exhibits exceptional quality with uniform properties. It is generally resistant to most acids, bases, salts, aliphatic solutions, oxidants, and halogens.

Main benefits:

- Low costs for installation equipment
- Excellent value for money
- Comprehensive product range
- CAD library and calculation tools

Main applications:	Chemical processing, potable water systems, water treatment, wastewater, industrial applications
Product range:	⅛"–24" Schedule 40 & 80
Pressure rating:	Varies by size
Temperature range:	32°F–140°F (0°C–60°C)
Jointing technology:	Solvent cementing, NPT threaded connections, mechanical connections
Material:	PVC (PVC-U)

CPVC Piping Systems

The best of the best

Impact resistance, good fire resistance capabilities and can handle most of the temperature/pressure requirements of today's typical process plants. Generally resistant to most acids, bases, salts, aliphatic solutions, oxidants, and halogens.

Main benefits:

- Low costs for installation equipment
- Long support distances
- Very good chemical resistance
- CAD library and calculation tools

Main applications: Chemical processing, plating,hot and cold potable water systems, water treatment, wastewater, hot corrosive fluid transfer, commercial water applications

Product range: ¼"–24" Schedule 40 & 80

Pressure rating: Varies by size

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

Jointing technology: Solvent cementing, NPT threaded connections, mechanical connections

Material: CPVC (PVC-C)

Clear PVC Piping System

FDA approved material

Versatile, cost-effective alternative for many piping applications, particularly those where visual monitoring of processes is critical. Clear PVC is corrosion-resistant, has smooth interior walls and is non-contaminating.

Main benefits:

- Clear and uniform color
- Smooth interior walls
- Lower overall installed cost
- Same easy installation as standard PVC

Main applications: Tubing containment, visual flow and leak detection, sight glasses

Product range: ¼"–12" Schedule 40
¼"–6" Schedule 80

Pressure rating: Varies by size

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

Jointing technology: Solvent cementing, NPT threaded connections

Material: Clear PVC (PVC-U)

Fuseal PP Corrosive Waste

The one and only DWV solution

Excellent chemical resistance and physical properties ideal for handling corrosive waste mixtures of acids, bases and solvents. Diluted mineral acids and aqueous solutions of acid salts, which are destructive to most metals.

Main benefits:

- Simple installation procedures
- Great corrosion resistance
- Maintenance-free service
- Low installation cost

Main applications: Corrosive waste drainage from laboratory, industrial or food and beverage processing

Product range: 1½"–18" Schedule 40
1½"–12" Schedule 80

Pressure rating: Up to 50 PSI for pressure waste applications (subject to manufacturers review of design)

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

Jointing technology: Electrofusion, mechanical joint, butt fusion

Material: PPNFR, PPFR

Fuseal 25/50 PVDF

Excellence in corrosive waste

Engineered to solve many of the problems with return air plenum piping or handling aggressive chemicals at elevated temperatures. Thermal stability as well as a low flame spread and smoke density as per UL 724 (ASTM E84).

Main benefits:

- UL certified
- Outstanding corrosion resistance
- Easy to join with electrofusion
- Reliable and trouble free

Main applications: Corrosive waste drainage for return air plenums or at elevated temperatures from laboratory, industrial or food and beverage processing.

Product range: 1½"–6" Schedule 40

Pressure rating: Up to 50 PSI for pressure waste applications (subject to manufacturers review of design)

Temperature range: -4°F–284°F (-20°C–40°C)

Jointing technology: Electrofusion

Material: PVDF

Fuseal Squared

Mathematically the best solution

Fuseal Squared physical properties make this system ideal to handle corrosive waste solutions for buried laboratory and industrial DWV applications. Closure couplings comply with the ASME B31.3.

Main benefits:

- Outstanding chemical resistance
- Free-floating primary pipe
- Maintenance-free service
- Very cost effective

Main applications: Corrosive waste drainage from laboratory, industrial or food and beverage processing

Product range: 1½"–8" primary pipe
4"–12" containment pipe

Pressure rating: Up to 50 PSI for pressure waste applications (subject to manufacturers review of design)

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

Jointing technology: Electrofusion

Carrier Material: PPNFR, PPFR, PVDF
Containment Material: PPNFR, PPFR

Contain-It

Easy double containment

Retrofit made easy. Ideal choice for containment piping of hazardous piping systems. Requires fewer and less expensive tools than other containment piping systems. Injection bonding with visual inspection of sealing.

Main benefits:

- Retrofit of piping system
- Fits over any primary piping system
- Visual leak detection
- Lightweight, easy to install

Main applications: Containment piping of chemical process lines,pharmaceutical, Life Sciences, Biotechnology lines

Product range: Can contain primary pipe up to 4" (110 mm) Containment sizes 3"–6"

Pressure rating: Up to 32 PSI (PN3)

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

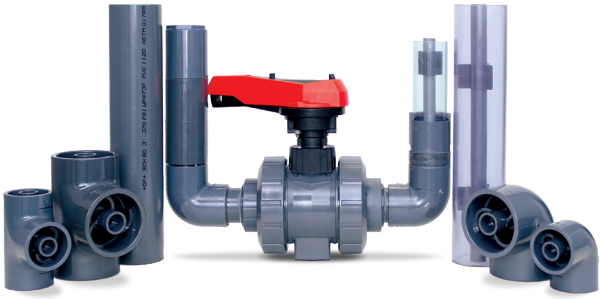
Jointing technology: Adhesive joint

Material: Clear PVC (PVC-U)

Double-See Containment

Fast and easy installation

Easy to install and available with a complete selection of pipe, fittings, and valves. Innovative “valve-in-valve” design allows a full containment pressure rating. Simultaneous joining throughout a system or in combination with patented closure couplings.



Main benefits:

- ASME B31.3 compliant closures
- Innovative centralizer design
- Pipe cut-length guidance system
- Factory assembled and 100% tested
- Personnel Safety
- Equipment and Environmental Protection

Main applications: Water/wastewater treatment, chemical delivery/dosing, microelectronics, metal plating, surface finishing, life sciences

Product range: ½”–8” primary pipe
2”–12” containment pipe

Pressure rating: Varies by size (primary)
50 PSI (PN4) (secondary)

Temperature range: Varies by material

Jointing technology: Solvent cementing

Material: PVC (PVC-U), CPVC (PVC-C), Clear PVC-U

SeaCor Piping System

Marine pressure and drainage

SeaCor® piping systems are particularly suitable for white, black and grey water systems as well as vent applications in marine settings. SeaCor® complies with FTP regulations on smoke, toxicity and surface flammability regulations and is approved by the United States Coast Guard and Transport Canada.

COA #164.141/36/0

Main benefits:

- U.S. Coast Guard approved
- Low costs for installation equipment
- Great corrosion resistance to salts
- L3 Endurance with SeaCor Heat-FIT
- CAD library

Main applications: White, black, and gray water and vent systems

Product range: ½"–12" Schedule 80

Pressure rating: Varies by size

Temperature range: 32°F–210°F (0°C–99°C)

Jointing technology: Solvent cementing

Material: CPVC (PVC-C)

SeaDrain White

Marine drainage piping system

The SeaDrain White marine piping system is the first thermoplastic black and grey water drainage system to offer both welded and mechanical joining capabilities. The system introduces the industry's first non-corroding thermoplastic deck drain, as well as a mechanical joining method capable of 2.5 bar (36psi) long-term burst pressure.

Main benefits:
- UV-resistant, no paint needed
- Easy to install
- Multiple jointing technologies

Main applications:
- Increased safety on board

Product range: 1-1/2" to 6" (DN40 - DN150)

Temperature rating:
- Constant temperature: 180°F (82°C)
- Intermittent (15min.) temperature: 212°F (100°C)

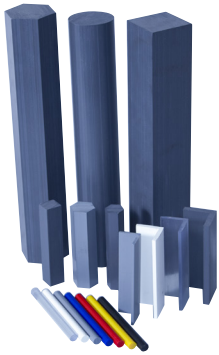
Pressure rating:
- Standard Operating: 14.5psi (1.0 bar)
- Long-Term Burst: 36 psi (2.5 bar)
- Short-Term Burst: 58 psi (4.0 bar)
- Vacuum: –14.5 psi (–1.0 bar)

Applications:
- Black and grey water sanitary drains
- Cabins, galleys and laundries
- Deck and balcony drains
- Customer-facing areas

Machining Shapes

Ready to be machined

GF's state-of-the-art extrusion process provides porosity-free, stress-reduced products with optimum physical properties and exacting tolerances. Available products include solid bar, hollow bar, square, rectangular, hexagonal bar, and angles.



Main benefits:

- Superior quality products
- Excellent chemical, corrosion resistance
- Ready to be machined
- Cost saving advantage

Main applications: Machined valve bodies, strainers, filters, bulkhead fittings, pump components, bushings, compression fittings, flanges, hangers, hooks, spacers, nuts bolts, rollers and numerous other mechanical components

Product range: ¼"–12"

Machining technology: Turning, boring, drilling, tapping and threading.

Material: PVC, CPVC (PVC-U, PVC-C)

Vinyl Duct Systems

Light weight

GF PVC material provides long-lasting, cost-effective solutions for corrosive applications and the CPVC material has exceptional fire resistance, high heat distortion temperature and good mechanical strength at elevated temperatures.

Main benefits:

- Reduces labor and costs
- Corrosive fumes, gases and fluids
- Seamless, large-diameter extrusions
- Long system service life

Main applications: Industrial and institutional corrosive fume exhaust and drain (PVC) hot corrosive fume and drain service (CPVC)

Product range: 6"–24"

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

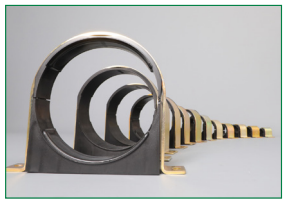
Jointing technology: Solvent cementing

Material: PVC, CPVC (PVC-U, PVC-C)

Other products and services

At GF Piping Systems, we not only make industry leading products and systems, we also offer customized products and services to better serve the ever evolving market needs. GF Piping Systems, with over 210 years of industrial piping experience, allows every customer to tap into a wealth of experience and dedication to serve the industry with innovation, reliability and performance.

- **Stress-Less**
- **SYGEF pipe metric (PVDF)**
- **PROGEF pipe metric (PP)**
- **COOL-FIT PE Plus pipe metric**
- **Aquatap recirculating faucet**
- **Customizing and prefabrication**
- **Product and installation training and certification**
- **Renowned technical and field services**



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1342 (6/2024)
Printed in USA