

## CONTAIN-IT Plus System

### Protective safety

Double containment system with highest safety due to two fully sealed containment zones. The Medium Pipe can be made from different plastics while, the jacket pipe is always in PE100. Various leakage control systems are available.

## 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.

## 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.

## 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.

## 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.

GF Piping Systems

## Worldwide at home

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

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<b>+ Main benefits:</b>	<ul style="list-style-type: none"><li>• Suitable for visual inspection and identification</li><li>• Protection of personnel and environment</li><li>• Adaptable leak monitoring system</li><li>• Observance of legal regulations</li></ul>
<b>Main applications:</b>	Water treatment, microelectronics, chemical process industry, energy
<b>Product range:</b>	20/50 mm to 225/315 mm (medium/protection)
<b>Temperature range:</b>	-50 °C to +140 °C (depending on medium pipe)
<b>Jointing technology:</b>	Cementing, socket fusion, IR fusion, electro fusion, butt fusion
<b>Material:</b>	PE100 for jacket pipe, PE100, PP, PVC-U, PVC-C, PVDF for medium pipe

<b>+ Main benefits:</b>	<ul style="list-style-type: none"><li>• Wide range of valves, actuators and accessories</li><li>• Long time reliable operation</li><li>• High corrosion resistance</li></ul>
<b>Main applications:</b>	Water treatment, microelectronics, chemical process industry, energy
<b>Product range:</b>	Ball valves: DN10 to DN150, Diaphragm valves: DN15 to DN150 Butterfly valves: DN50 to DN600 Process valves: DN10 to DN100 Electric and pneumatic actuators open/close and continuous control
<b>Jointing technology:</b>	Cementing, socket fusion, butt fusion, IR fusion, BCF fusion threaded union and flanged
<b>Material:</b>	PVC-U, PVC-C, ABS, PP-H, PVDF, PP fiberglass reinforced

<b>+ Main benefits:</b>	<ul style="list-style-type: none"><li>• Simple operation and installation</li><li>• Sensors for all major parameters</li><li>• High corrosion resistance of housings</li><li>• Global availability of products</li></ul>
<b>Main applications:</b>	Water distribution, water treatment, chemical process industry, irrigation, cooling
<b>Product range:</b>	Flow, conductivity, pH, ORP (Redox), temperature, pressure, level, dissolved oxygen, turbidity and chlorine
<b>Jointing technology:</b>	Special installation fittings, strap on saddles, ISO/NPT pipe threads
<b>Material:</b>	PP, PVC-U, PVC-C, PVDF, Ryton body, PTFE junction, 316L stainless steel

<b>+ Main benefits:</b>	<ul style="list-style-type: none"><li>• Most advanced welding technology</li><li>• Efficiency through patented technologies</li><li>• Data recording for quality documents</li><li>• Wide range of accessories</li></ul>
<b>Main applications:</b>	Water treatment, energy, cooling, chemical process industry, microelectronics, marine
<b>Product range:</b>	16 mm to 1200 mm workshop and on site machines
<b>Jointing technology:</b>	Infrared fusion (IR), Bead and crevice free fusion (BCF), butt fusion, socket fusion, electro fusion
<b>Material:</b>	PE, PP, PVDF, PB

<b>+ Main benefits:</b>	<ul style="list-style-type: none"><li>• Increase quality of your piping installation</li><li>• Reduce costs in implementation</li><li>• Increase safety in your operation</li><li>• Save time in preparation &amp; planning</li></ul>
	Our Solutions portfolio offers a wide variety of flexible tools designed for the changing needs that each project has throughout its development.
	Starting with our Digital Libraries and Engineering in the first steps of planning and design; passing through Custom Product Design and Prefabrication, Track & Trace, and ProSite during implementation, and ending with Condition Analysis along the commissioning and operation stages. At any time, our specialized Training programs for installers and our Technical Support team are available locally to give a fast response and provide peace of mind to our customers.



GF Piping Systems

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# Industry

The right solution for your applications

## PVC-U 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.



## PVC-C System

### High performance PVC

System with good 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.



## ABS System

### High performance at low temperatures

Energy efficient solution for low temperature applications, refrigeration and cooling systems. High impact resistance and low heat conductivity. Fast and safe cementing connections with limited investment for tools and equipment.



## COOL-FIT System

### Energy saver

Energy saving, pre-insulated system for cooling applications. Excellent impact strengths for lowest temperatures. The system utilizes fast and safe electro fusion connections for a comprehensive range of fully insulated system components.



## 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.



## 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.



## 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:**
- Comprehensive product range
  - Very good chemical resistance
  - Low costs for installation equipment
  - Food and drinking water approvals

- + Main benefits:**
- Increased temperature range
  - Very good chemical resistance
  - Low costs for installation equipment
  - Long support distances

- + Main benefits:**
- High impact strength at low temperatures
  - Low thermal conductivity
  - Fast and low cost installation
  - Outstanding abrasion resistance

- + Main benefits:**
- Fast installation time
  - Extreme low operational energy loss
  - Very robust outer jacket
  - No corrosion

- + Main benefits:**
- UV and weather-resistant
  - Outstanding abrasion resistance
  - High impact strength
  - Wide choice of jointing technologies

- + Main benefits:**
- High impact strength
  - Good chemical resistance
  - Silicone/ Oil free for PROGEF Plus
  - BCF fusion for PROGEF Natural

- + Main benefits:**
- High operating temperature range
  - Outstanding chemical resistance
  - Extremely smooth surface
  - Excellent purity for SYGEF Plus

**Main applications:** Water treatment, marine, energy, chemical process industry

**Main applications:** Chemical process industry, water treatment, marine

**Main applications:** Cooling, water treatment, marine

**Main applications:** Chilled water / refrigeration

**Main applications:** Water treatment, energy, marine, cooling chemical process industry

**Main applications:** Water treatment, microelectronics chemical process industry

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

**Product range:** 6 mm to 400 mm (ISO/DIN) 3/8" to 8" (BS) 1/8" to 24" (ANSI/ASTM) flanges and valve connections (JIS)

**Product range:** 16 mm to 225 mm (ISO/DIN) 1/4" to 24" (ANSI/ASTM) flanges and valve connections (JIS)

**Product range:** 20 mm to 315 mm (ISO/DIN) 3/8" to 8" (BS)

**Product range:** COOL-FIT 2.0: d32 to d140 mm COOL-FIT 4.0: d32 to d450 mm

**Product range:** 20 mm to 1200 mm (ISO/DIN)

**Product range:** PROGEF Standard: 16 mm to 500 mm PROGEF Plus: 16 mm to 315 mm PROGEF Natural: 20 mm to 110 mm

**Product range:** SYGEF Standard: 16 mm to 315 mm SYGEF Plus: 20 mm to 315 mm

**Pressure rating:** Up to 16 bar

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**Pressure rating:** Up to 16 bar

**Pressure rating:** Up to 16 bar

**Pressure rating:** Up to 16 bar

**Pressure rating:** Up to 10 bar

**Pressure rating:** Up to 16 bar

**Temperature range:** 0 °C to +60 °C

**Temperature range:** 0 °C to +80 °C

**Temperature range:** -50 °C to +60 °C

**Temperature range:** max. -50 °C to +60 °C

**Temperature range:** -50 °C to +60 °C

**Temperature range:** 0 °C to +80 °C

**Temperature range:** -20 °C to +140 °C

**Jointing technology:** Cementing

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**Jointing technology:** Electro fusion

**Jointing technology:** Electro fusion, socket fusion, butt fusion, IR fusion

**Jointing technology:** IR Plus fusion, socket fusion, butt fusion, BCF fusion (PROGEF Natural only)

**Jointing technology:** IR fusion, BCF fusion, butt fusion, socket fusion

**Material:** PVC-U

**Material:** PVC-C

**Material:** ABS

**Material:**

- PE media pipe, PE/PUR jacket
- CF 2.0: 22 mm GFHE-foam insulation
- CF 4.0: 44 mm GFHE-foam insulation

**Material:** PE

**Material:** PP

**Material:** PVDF