

GF Piping Systems

+GF+

Irrigation

The sustainable solution for your application



The best choice for you

Corrosion resistant and flexible system solutions

+ Georg Fischer

GF focuses on three core businesses: GF Piping Systems, GF Automotive and GF Machining Solutions. The industrial corporation was founded in 1802, headquarters in Switzerland and operates approximately 121 companies with more than 14400 employees across 32 countries. GF Piping Systems is a leading supplier of plastic and metal piping systems with a global market presence, for the treatment and distribution of water and chemicals, as well as the safe transport of liquids and gases in industry.

+ Our market segments

Being a strong partner, GF Piping Systems supports its customers in every phase of the project, in the following market segments:

- Building Technology
- Chemical Process Industry
- Energy
- Food & Beverage / Cooling
- Microelectronics
- Marine
- Water & Gas Utilities
- Water Treatment

+ Global presence

Our global presence ensures customer proximity worldwide. Sales companies in 28 countries and representatives in another 80 countries provide customer service around the clock. With 48 production sites in Europe, Asia and the USA, we are close to our customers and comply with local standards. A modern logistics concept with local distribution centers ensures highest product availability and short delivery times.

+ Complete solutions provider

Our extensive product range represents a unique form of product and competence bundling. With over 60000 products, allied with a broad range of services, we offer individual and comprehensive system solutions. Our automation offering perfectly fits into our complete system approach and is thus an integral part of our portfolio. Having the profitability of the project in focus, we optimize processes and applications that are integrated into the whole system. Thanks to our worldwide network customers benefit directly from over 50 years of experience in plastics. From start to finish, we support our customers as a competent, reliable and experienced partner.

Introduction

A lifetime of consistent performance

The big advantage of plastics compared to metals is that there is no electrochemical corrosion. In addition to this, plastic is lighter than other materials. The «Total Plastic Solution» from GF Piping Systems ensures safety in all applications. Safe and reliable installations achieved through the use of plastic piping systems, results in consistently high efficiency throughout the life of the system.

+ Plastic benefits at a glance

- Corrosion resistant
- No extra corrosion prevention required
- Smooth surface resulting in higher flow rates, lower pressure drop, reduced energy costs
- Good price performance ratio and total cost of ownership
- Plastics are generally much lighter in weight
- The material is durable, reliable and homogenous
- jointing technologies are available
- Plastics are “greener” than metal, due to its low carbon footprint
- Global standards: ISO, ASTM, EN and many more
- PE is flexible during storage and installation



Sustainable solutions for your demanding applications

Irrigation includes drainage, soil reclamation and erosion control. If any of these factors are ignored due to either a lack of understanding or planning, agricultural productivity is certain to decline. Today's irrigation technology is more complex than many appreciate. It is a system extending across many technical and non-technical disciplines and only works efficiently and continually when all the components are integrated seamlessly. GF Piping Systems provides excellent and technically competent products for both new build as well as maintenance and repair of today's irrigation networks.

Water transport and distribution

To supply water to agricultural fields, public water utilities or organize the transport of water. The water source can be special dams, lakes, canals or rivers. The solution of choice is plastic which offers several advantages to the customer. In this case GF provides sustainable solutions including mechanical couplings, water parameter sensors and flow monitoring equipment, electrofusion and butt fusion fittings and machines. GF also offers a complete range of compression fittings manufactured from PP, including saddles as well as malleable iron fittings. All these solutions are used from the water source to the water meter and ensure the economical transport of water.



Agriculture

Water is a valuable resource during production and a sustainable piping system for irrigation is an important factor in order to optimize the crop. The irrigation system must be optimised so that over-watering is avoided in order to minimize the leaching of nutrients and pesticides. The selective use of irrigation, the selection of the piping components, measurement and control systems all help to increase efficiency and reduce water consumption. GF Piping Systems provides you with reliable solutions for the sustainable and economical transport of water and nutrients for optimal management of agricultural fields.



TP system

- Low costs for installation equipment
- Comprehensive product range
- d16 mm to d315 mm (ISO/DIN)
3/8" to 8" (BS) 1/2" to 4" (ANSI/ASTM)



ELGEF Plus system

- High quality electrofusion system
- Modular concept - high flexibility
- safe and easy installation
- d20 mm to d2000 mm



iJOINT system

- Suitable for all PE pipes, PEX, PVC-U (kit)
- High pull out resistance
- Tapping saddles for PE and PVC
- No dismantling
- d16 mm to d110 mm

Complete system of high performance piping technology

Greenhouses must create different ecological conditions such as humidity, temperature and soil aeration, often in very demanding environments. GF Piping Systems provides irrigation products that are designed to last at least 50 years.

Greenhouses

A growing world population and the changing climate increase food and water scarcity globally. Sufficient food availability is going to be an objective, which will be out of reach. As counter actions, more and more food production will be separated from the local weather by building large green houses or doing extended irrigation to increase the output of food per unit area. Systems simple to install and ensuring a secure, water tight distribution over the total product lifespan, will become an important attribute. GF Piping Systems provides you with a comprehensive product range for irrigation.



Fertigation

One of the most important innovations recently in the field of vegetable cultivation is fertigation. Already significantly utilised in greenhouses, it is now also present in open air cultivation. Today fertigation is not only a pairing between irrigation and fertilization, but a system to increase quality and yield of the cultivation. It limits manure distribution which also reduces the pollution of soil due to lower nitrogen consumption. In this field GF offer numerous solutions to produce fertigation units, including PVC-U fittings and valves, PE electrofusion and butt fusion fittings, measurement and control equipment, mechanical saddles to produce manifolds, and mechanical compression fittings in PP.



PRIMOFIT system

- For steel and PE pipes
- No special pipe preparation required
- Pre-assembled, dismantling is not required
- Full end-load resistance
- $\frac{3}{8}$ " to 4"



MULTI/JOINT system

- Max. 8° misalignment per side allowed
- Durable and corrosion resistant
- Suitable for all pipe materials
- DN50 to DN600: wide-range restraint couplings
- DN450 to DN600: XL wide-range



Measurement and control

- Simple operation and installation
- Sensors for all major parameters
- Flow, conductivity, pH, ORP (Redox), temperature, pressure, level, dissolved oxygen, turbidity and chlorine

Zero leakage solutions – irrigation where it is needed

GF offers a comprehensive product range for efficient water distribution to meet the needs of any landscape. Our high quality plastic solutions and services will offer you sustainable irrigation of your property.

Landscape irrigation

Landscaping of gardens, parks and even roadside verges requires expertise in horticulture and artistic design to enable flora and fauna to flourish in likely unnatural conditions. The target of creating beautiful and durable environments within a landscaped area is the goal. GF Piping Systems offers products and services for designers to ensure long years of operation, even in the most demanding landscaping projects.



Sports ground

Sports grounds need specially designed irrigation systems. In some cases even high pressure pipelines are installed to ensure the proper distribution of water over long distances. Therefore we provide high quality jointing technology including our electrofusion system ELGEF Plus to ensure the transport and distribution of water for an outstanding performance on the sports ground.



We serve your business

GF Piping Systems is aware of the fact that our promised performance does not end with a product's purchase or installation. For us, it is an important concern to provide individual support and application-oriented services throughout the entire lifecycle of your installation.



Global training

GF Piping Systems specialists are always close by. A comprehensive range of training courses are conducted by locally based teams of experts worldwide. Training is focused on methods with high practical relevance. Geared specifically towards your individual priorities as well as to your level of knowledge, our courses are of high quality and tailored to the needs of the project. On site, instructing pipe fitters in the specific aspects of the installation prior to the actual construction work saves valuable time.



Customizing

Special fittings or prefabrication on request is what makes a solution your solution. Our customizing teams work closely together with our production and engineering specialists around the globe to develop the best solutions for you.



Rental pools

Sufficient installation equipment is a must when taking on a large project. Purchasing the equipment is not always the most cost-efficient solution. In many countries, we operate rental pools providing you machines and tools for various joining technologies including butt fusion, electrofusion and mechanical connections.

Worldwide at Home

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

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