

GF Piping Systems

+GF+

Trusted Performance

Reliable solutions for irrigation systems



Trusted performance

High-quality PVC-U Irrigation Solutions for a sustainable future

Water brings life, both to nature and humans. But it is a scarce resource, and we need to protect it. Systemized irrigation application significantly increase the efficiency of agriculture, landscaping, gardening, and much more. Such crucial applications need to be reliable, long-lasting, and sustainable to ensure a joyful and bright future for humankind and the earth itself.





Reliable piping components play a vital part in the sustainable and efficient operation of irrigation systems to ensure the failsafe operation of hard-to-reach valves and fittings. Furthermore, water loss can easily be avoided by opting for high-quality solutions to ensure system integrity and a secure water distribution over the total lifespan.

By offering optimized solutions for irrigation systems, we at GF Piping Systems contribute to a more sustainable future by providing high-quality PVC-U valves and fittings to guarantee failsafe operation, longevity, and peace of mind. With the irrigation range GF Piping Systems can offer a cost-effective solution to ensure safe and reliable long-term water distribution.

Main benefits

Safe and reliable components for your irrigation system

Install a new system with confidence thanks to our highgrade reliable components that are lightweight, corrosionfree, and long lasting.

+ Global availability

Worldwide sales, service, and availability of products from our trusted global partner network.

+ Specialized products

The right product for the correct application. Our products are designed to meet our customer requirements, with quicker installation and better performance for your system.



+ Standards compliant

Our irrigation valves and fittings fulfill all the mandatory international industry standards, backed by 100 years of combined experience in PVC-U.

+ 100% corrosion-free

High-quality valves and fittings ensure the longevity of the whole system. No incrustation for reliable long-term operation, ensures safe and reliable water flow.

+ Reduced ecological footprint

During the production process, waste is reduced to a minimum thanks to internal recycling of raw materials.

Application example

Customizable solutions for irrigation systems

PVC-U irrigation solutions by GF Piping Systems provide maximum safety and reliability while increasing efficiency, and minimizing space utilization thanks to their application fit design and optimized performance.

Specialized products guarantee peace of mind thanks to worry-free installation.

Highlight products

TP Ball Valve VSA22

Compact double union ball valve characterized by optimal handling, full flow, safe block and adjustable ball seat.

TP Butterfly Valve VFA02D

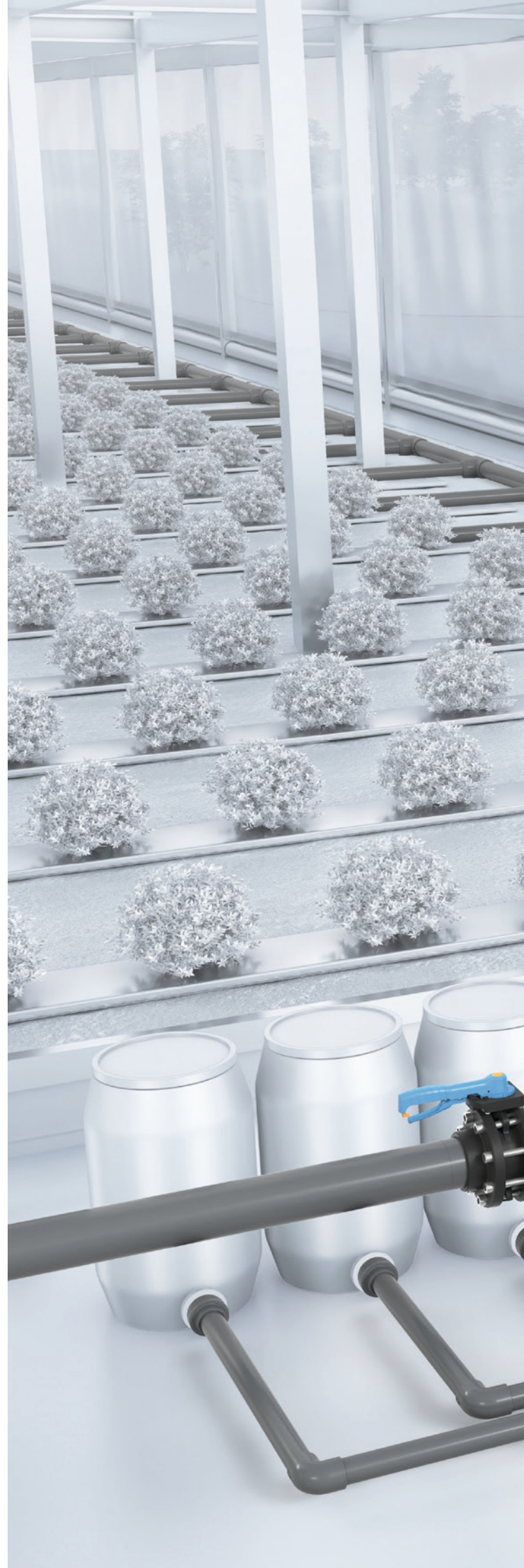
Compact and low torque valves with lockable handle. Design which enables an easy assembly and simplifies maintenance operations.

TP Check and air release valves VR

Double union self closing valves with corrosion free rubber spring suitable for vertical and horizontal installations.

TP Fittings

Wide range of unions and fittings available in metric and imperial sizes. Special fittings for irrigation systems such as manifold tees and solvent cement saddles.





Reliability and sustainability

By offering a whole portfolio of well-trusted valves and fittings GF Piping Systems can offer customizable, high-quality solutions for reliable and sustainable operation of irrigation systems.



Valves

Lightweight, durable, and versatile. Our comprehensive valve portfolio offers the perfect solution for irrigation systems. High-quality materials guarantee 100% corrosion resistance and longevity, while compact ball valves, pre-assembled butterfly valves, and check valves facilitate commissioning, and ensure safe and efficient operation.



Fittings

Where space is a premium, the total number of components must be reduced as much as possible. Our versatile PVC-U fitting portfolio achieves this by reducing fittings and male-to-female elbows. Thus, avoidable connections are not necessary to enable smooth operation in confined spaces.



Ball Valves

Butterfly Valves

Check Valves

Fittings

Material	Body: PVC-U / Sealing: EPDM, PTFE+PE	Body: PVC-U / Gasket: EPDM Disc Gasket, SANTOPRENE™ flange gaskets	PVC-U	PVC-U
Pressure	DN10 - 50: PN16 DN65 - 100: PN10	DN65 - 150: PN10 DN150-200: PN6	DN10 - 50: PN16 DN65 - 80: PN10	
Dimension	DN 10 - 100	DN 65 - 200	DN 10 - 80	DN 10 - 200
Temperature	0°C - 60°C	0°C - 60°C	0°C - 60°C	0°C - 60°C
Joining technology	solvent cement and threaded	flanged	solvent cement and threaded	solvent cement and threaded
Actuation	manual	manual, pneumatic or electric	manual	
Connection standards	ISO, BS, ASTM, NPT	ISO, DIN, BS, ANSI	ISO, BS, ASTM, NPT.	ISO, BS
Industry standards	EN 1452, ISO9393	ISO 16136, EN 1452, ISO 9393	ISO16317, EN1452	EN1452
Accessoires	colored valve tags		sediment strainer	



PVC-U

Highly efficient and cost effective

Polyvinylchloride (PVC) is one of the most important and oldest plastics in use today. The properties of PVC-U molded parts are strongly dependent on the composition of the individual components, but also on the processing. Because of our combined experience of more than 100 years in PVC processing and the continuous advancement of our own formulation of materials, GF Piping Systems has become a benchmark in the field of PVC-U valves and fittings.

+ Robust and reliable

The durable material does not suffer from wear, corrosion or demanding weather conditions. Furthermore, PVC-U endures a broad spectrum of pressure and temperature without showing any weaknesses.

+ Low environmental impact

Low energy consumption and relatively low emissions and waste during production and processing. Basic and raw material reusability means that the carbon footprint is smaller compared to other pipe materials.

+ Chemical resistance

PVC-U shows a good resistance against a broad range of media enabling application fit chemical resistance for irrigation systems.



Jointing techniques

PVC-U pipe products can be jointed using solvent cement and do not require expensive fusion machines or power supply.

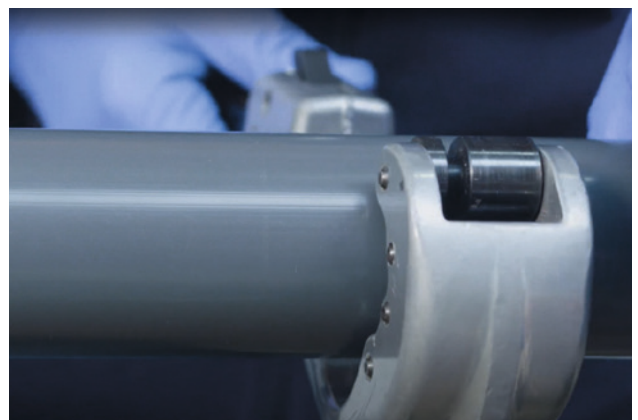
Cementing should be performed at an ambient temperature of 5° to 35°C. The first step of the cementing process is to prepare the parts. Cut the pipes to length using a pipe cutter, chamfer the end of the pipe and deburr the inside.

After this any coarse dirt needs to be removed from the cementing surface to ensure proper jointing. The surface of the pipe needs to be visibly matte in order to guarantee fail-safe jointing.

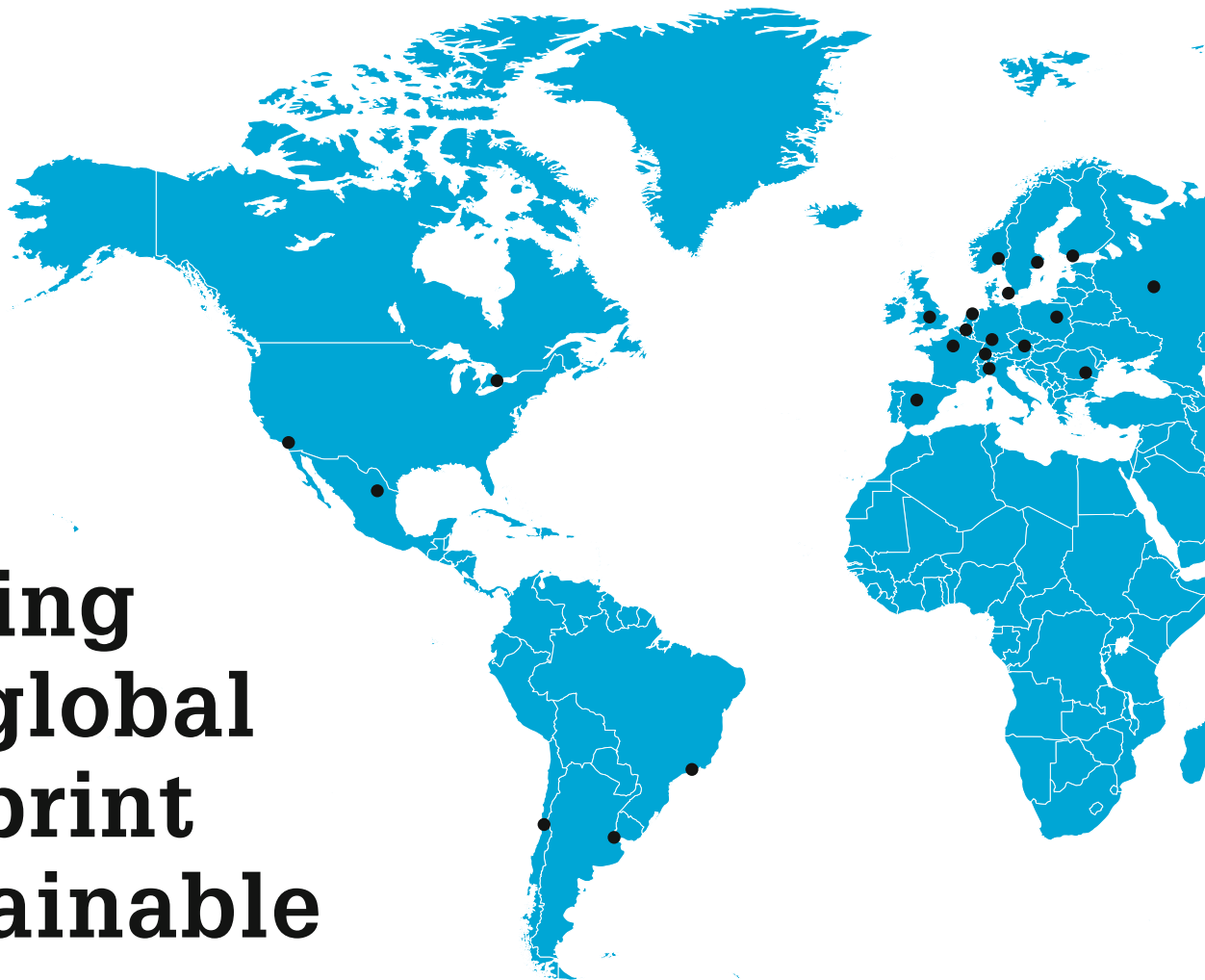
The cementing surface must be dry and free from greases and dirt, and must not be touched after cleaning.

Mark the cementing length of the fitting on the pipe end using the folding ruler and marking pen; this allows for checking the required application of adhesive and whether the pipe has been completely inserted.

Finally, the cement is ready to be applied. Using firm brush pressure, apply an even, closed cement layer.



[Watch the full installation video](#)



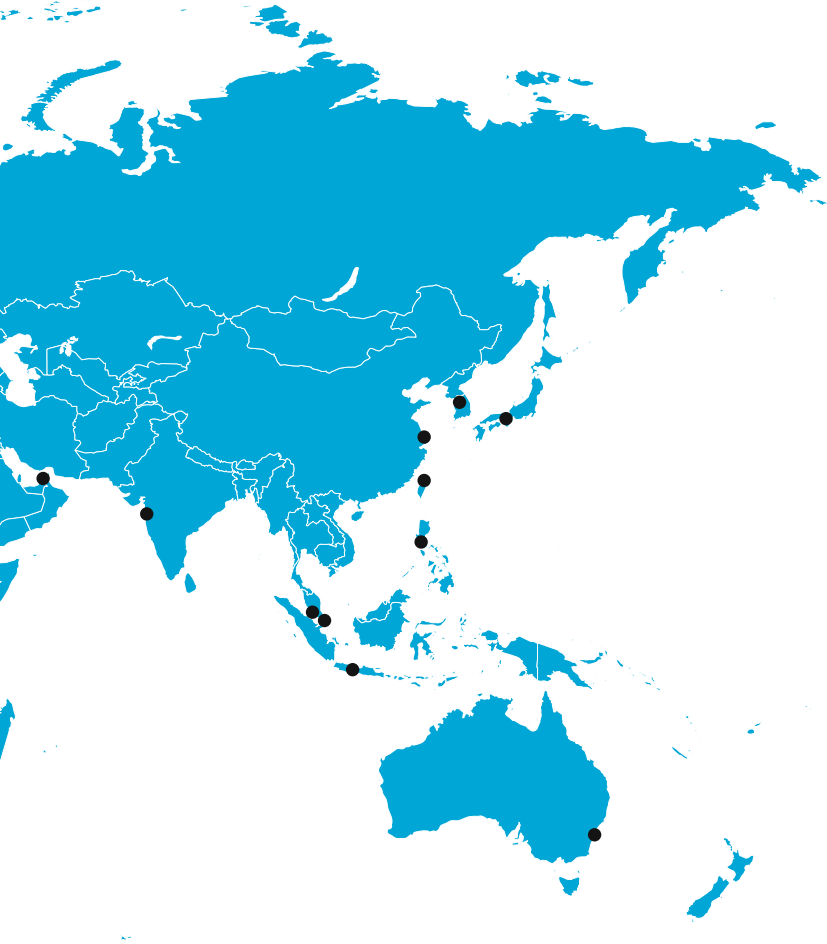
Making our global footprint sustainable

We at GF Piping Systems understand that everything is connected – what we do inevitably always affects someone, somewhere. Environmental impacts of human activity are apparent on a daily basis, and every stakeholder must take responsibility for their part. As a company that is active worldwide, it is our mission to show our commitment, by supporting our customers' success with innovative, energy saving solutions making the collective global footprint more sustainable.

Sustainable operations

GF Piping Systems is making flow sustainable: Environmental regulations, water scarcity and an increasing demand of consumers and society for greener and more sustainable solutions is an important set of trends shaping customer behavior. Saving energy in high-consumption areas such as the cooling of data centers or food storage, reducing the carbon footprint of cruise ships or decreasing the levels of chemicals in industrial wastewater treatment are examples of some of the areas where GF Piping Systems can provide attractive solutions.

Peace of mind when it comes to the safety and hygiene of water, gas or chemical flows is important in our field of expertise. Our mission at GF Piping Systems is to make sure that customers enjoy sustainable flows of water, gas or chemicals, without safety issues, leakages and other environmentally challenging consequences. Our solutions improve our customers' sustainability in terms of energy use and the resulting CO2 footprint, while GF Piping Systems supports the sustainable success of its customers by increasing their efficiency during processes such as installation and operation.



Good health
and well-being



Clean water
and sanitation



Industry, innovation
and infrastructure



Sustainable cities
and communities



Responsible consumption
and production



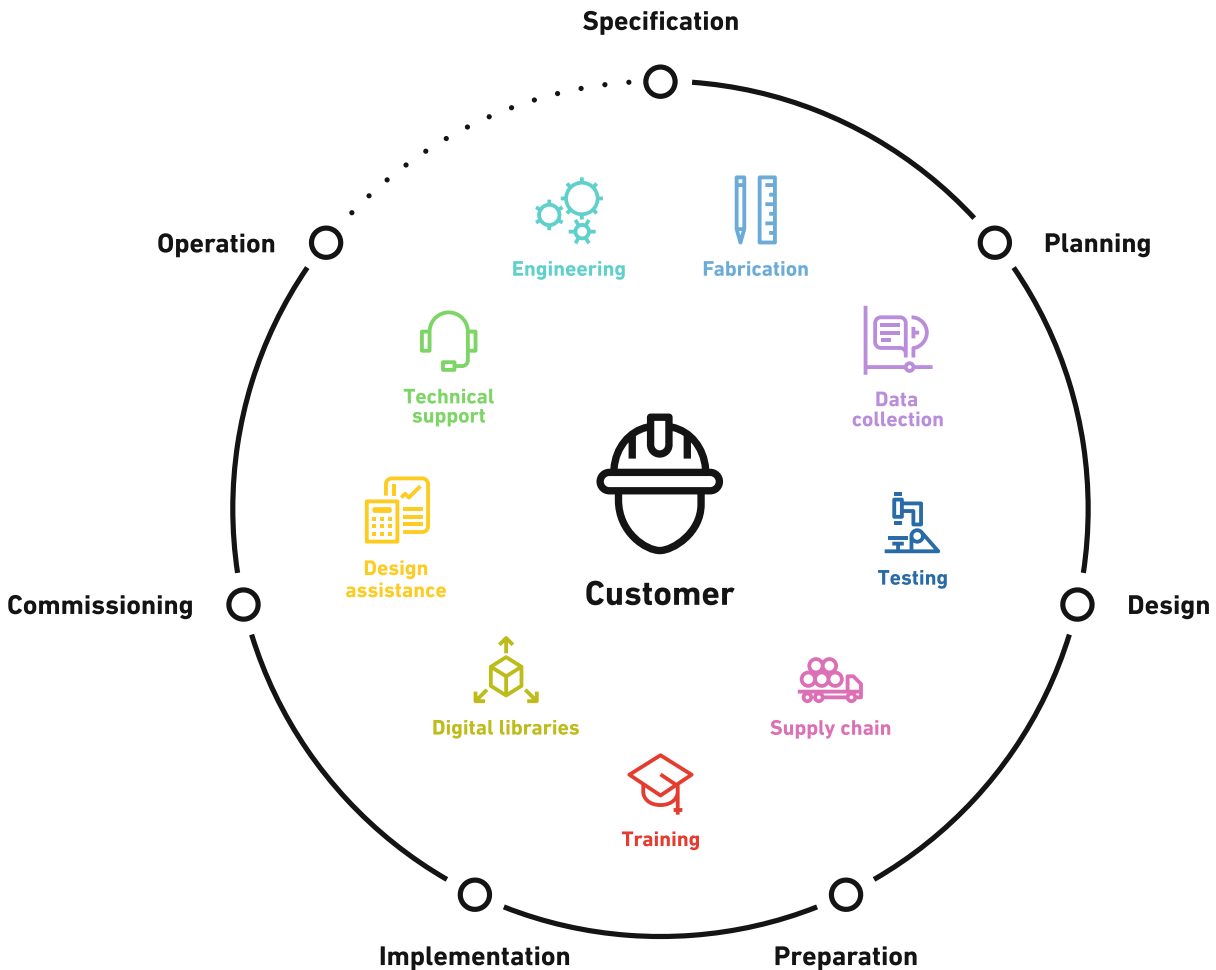
Climate action

Supporting the global effort

On a Corporate level, GF is a participant of the UN Global Compact, with GF Piping Systems directly contributing to the United Nations' Sustainable Development Goals. Support for the global effort includes the goals on Good Health and Well-being, Clean Water and Sanitation, Industry, Innovation and Infrastructure, Sustainable Cities and Communities, Responsible Consumption and Production, as well as Climate Action.

One partner from planning to commissioning

With Specialized Solutions, the global leader GF Piping Systems provides project support every step of the way to achieve construction excellence. Allowing owners and planners to concentrate on their daily business without interruption.





Custom product design and prefabrication

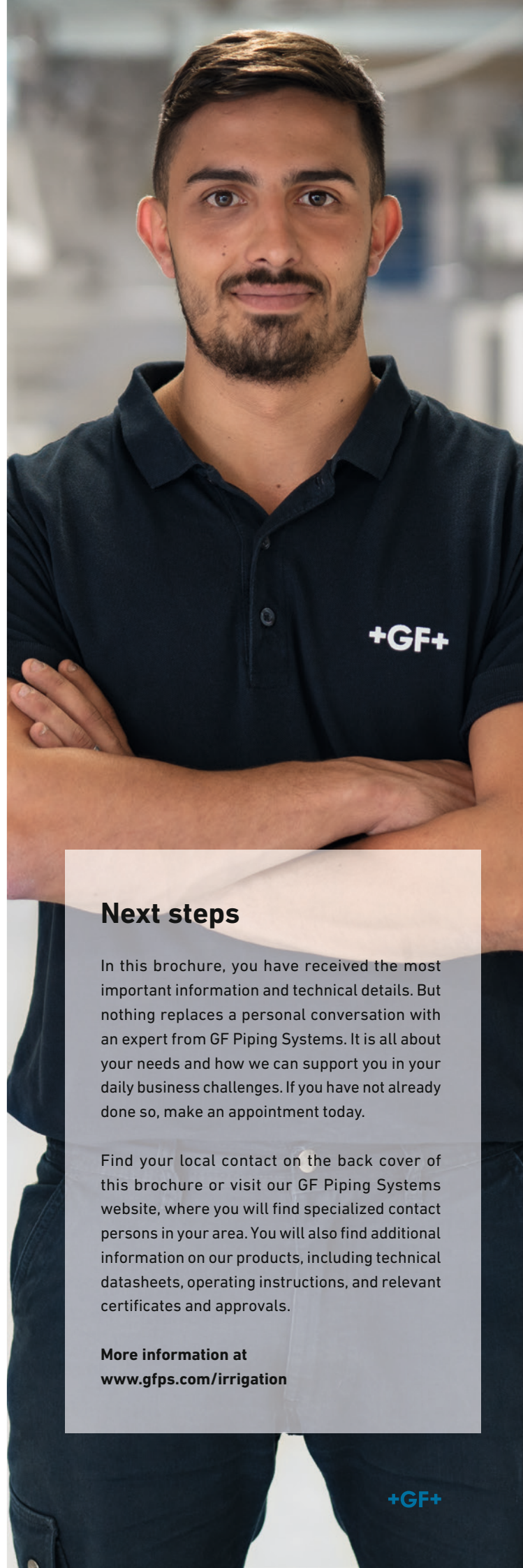
Having your individual needs and application in focus, our customizing teams forge the solution that fits you best, developing custom-made parts to complete systems or special solutions produced in small series, individual consulting and off-site prefabrication.



Digital libraries

The libraries cover three key areas for the design, creation, and maintenance of a project: Building Information Modeling, the Plant Design Software, and the CAD Library, helping you reduce costs and construction times.

www.gfps.com/specialized-solutions



Next steps

In this brochure, you have received the most important information and technical details. But nothing replaces a personal conversation with an expert from GF Piping Systems. It is all about your needs and how we can support you in your daily business challenges. If you have not already done so, make an appointment today.

Find your local contact on the back cover of this brochure or visit our GF Piping Systems website, where you will find specialized contact persons in your area. You will also find additional information on our products, including technical datasheets, operating instructions, and relevant certificates and approvals.

More information at
www.gfps.com/irrigation

Local support around the world

Visit our webpage to get in touch with your local specialist:

www.gfps.com/our-locations



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