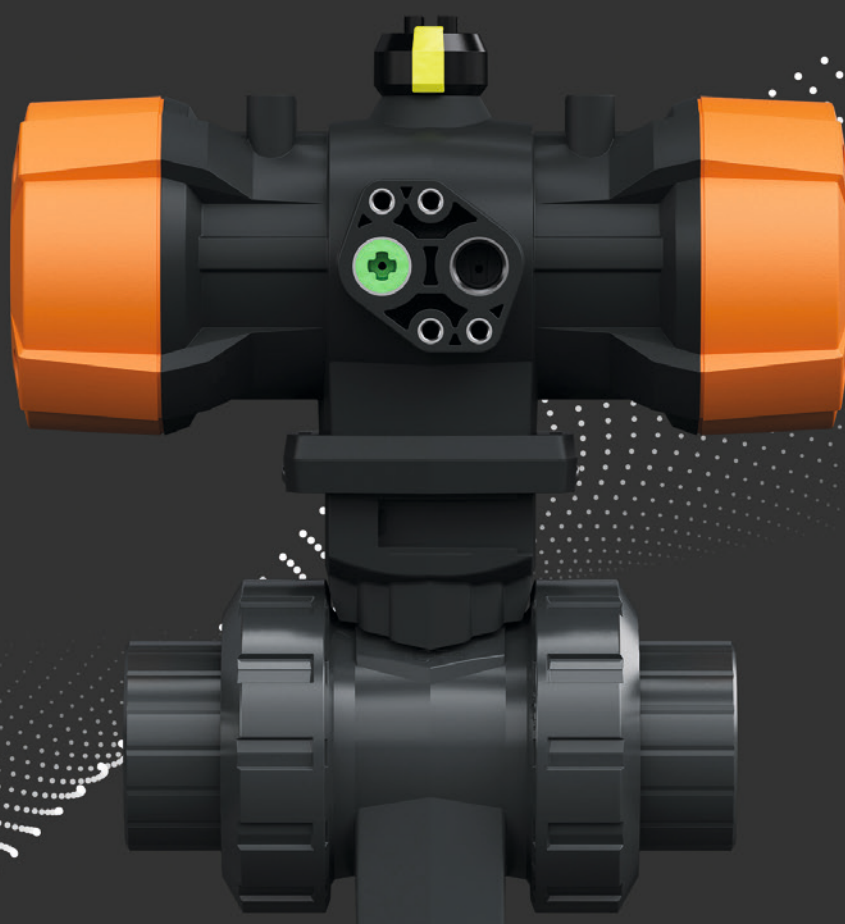


Stainless power

Pneumatic Actuator



Increased safety and reliability

GF Piping Systems new Pneumatic Actuator is made of high performance plastics, is maintenance free, and provides consistent performance for the life of your piping system.

Our Pneumatic Actuators cover a wide spectrum of valves to suit every need. Thanks to its lighter, more compact design, planning and installation are easier and more efficient. The Pneumatic Actuator is protected by a high-quality, and corrosion-free fiberglass reinforced polypropylene (PP-GF) housing, and is designed and optimized to work perfectly with a broad range of valves.

Set and forget

Thanks to high-performance plastics, there are no maintenance requirements for GF Piping Systems newest Pneumatic Actuator, including in highly corrosive environments. This reduces the renewal and planning requirements of the site for at least 25 years and simplifies future tasks. The Pneumatic Actuator is designed to achieve a minimum of 250.000 cycles and to work smoothly, even after long periods without operation.

Powerful and lightweight

This actuator has a plastic housing (instead of metal) and is more compact than earlier models. On average, this makes them up to 8% lighter. The low weight further reduces static demands so that costly reworks of the existing piping system can be avoided.

SAFETY



Custom fit for your requirements

The range of our new Pneumatic Actuators covers more than twice as many combination possibilities compared to conventional actuators. The actuator can be perfectly tailored to suit every need in order to reduce unnecessary weight and space usage, providing ideal installation design. Engineered to offer the right balance between size, torque, and compressed air supply pressure and was designed for compressed air systems from 4.2 to 5.6 bar without compromising on safety.

Up to 27% smaller

The pneumatic actuators are considerably more compact than earlier models and therefore support compact installation with tighter spacing of PP-GF pipes, leaving more space in order to install all necessary components more easily.

Designed for the highest demands

Flexible sizing to find the right fit – The new design of the interface between the Ball Valve 546 Pro and the Pneumatic Actuator range enable users to find the right fit in terms of torque and size even in low-pressure applications. Choose from standard configurations or contact GF Piping Systems for customized assemblies.

Thanks to the integrated NAMUR interfaces, additional accessories such as Electro-pneumatic Positioners and Solenoid Valves enable end users to widen the functionality and automation level of the valve assembly. Process Automation, therefore, offers the complete product range as the full solution supplier.

Advantages of plastic solution

- Corrosion-free and no maintenance required.
- Low weight and easy handling

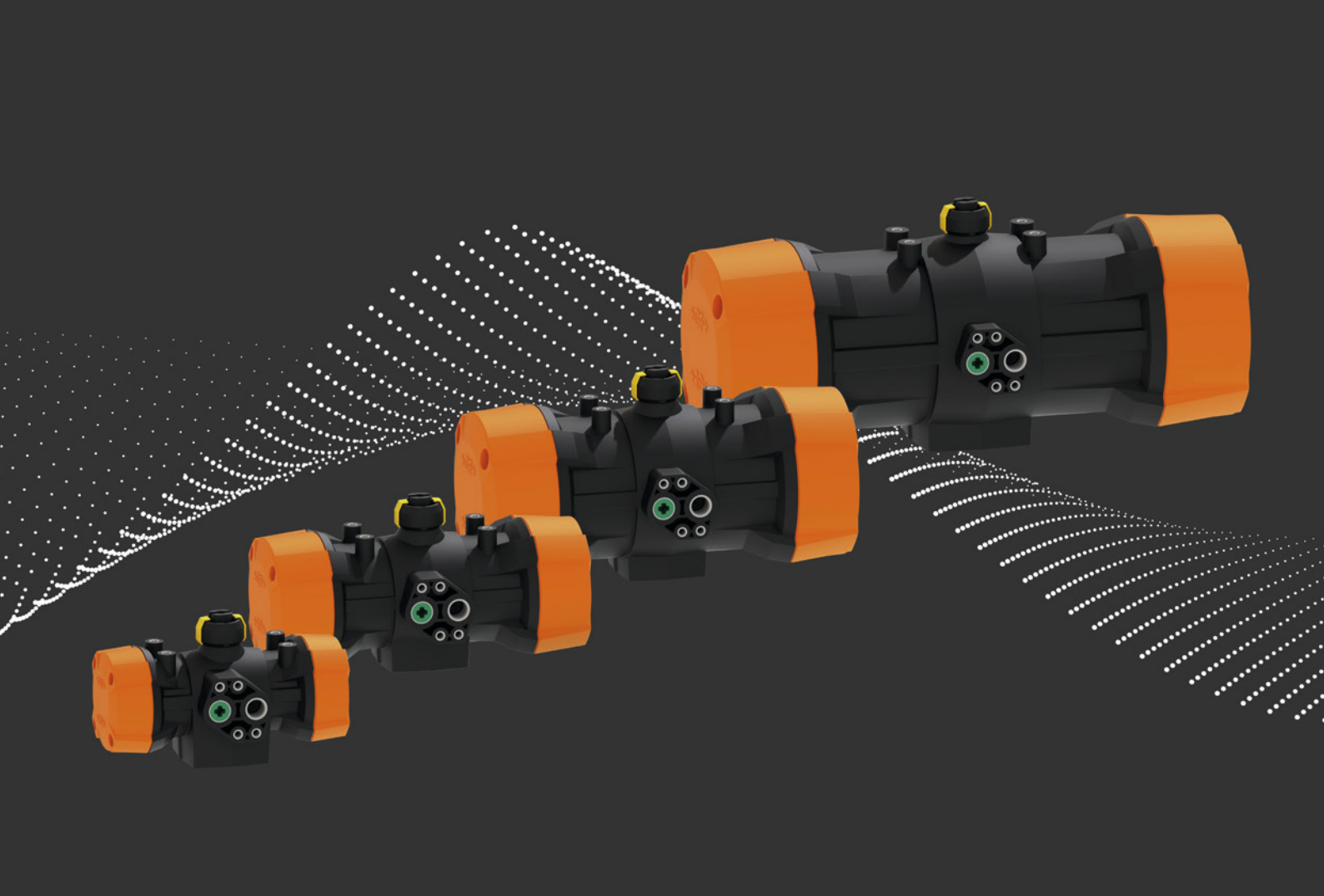
Features

- Standard valve assemblies are sized to meet PN10 requirements (5.6 & 4.2 bar air pressure)
- The right fit in terms of torque and size i.e. in low pressure applications < PN6
- Integrated NAMUR interfaces



Swiss quality

The Pneumatic Actuator is manufactured by GF Piping Systems in Seewis (Grisons), Switzerland. GF Piping Systems has been producing high-quality valves and actuators here for over half a century. They combine technological innovation with the highest standards of material selection, manufacturing, and quality testing for selection.



Testing procedure

All actuators and valves undergo a 100% test process to ensure safe function and leak tightness. The pre-assembled combination will be tested one last time to make sure the individual products work perfectly together – increasing safety, durability, and reliability.

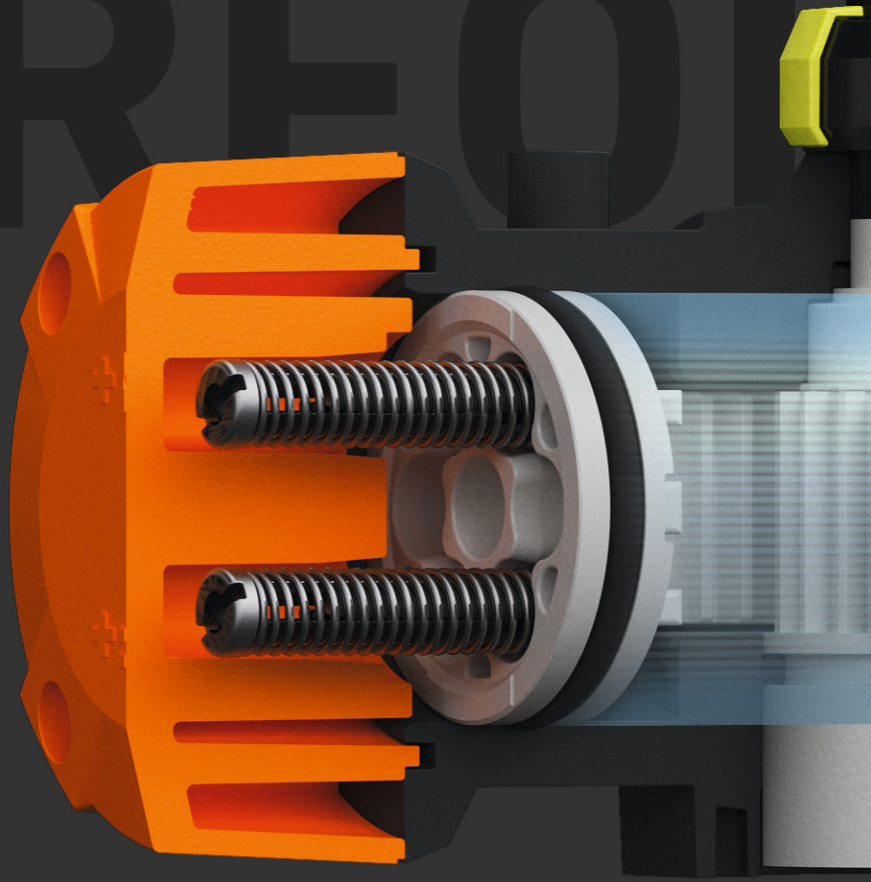
Function	Single acting (Fail close/FC; Fail open/FO)
	Double acting (DA)
Material	PP-GF (glass-fiber reinforced polypropylene)
Ambient temperature	-10°C to +50°C (14°F to 122°F)
Control media	Compressed air, lubricated and unlubricated, Liquids on request
Mechanical interface	F03/F05/F07 (ISO 5211)
Maximum control pressure	FC/FO: 6 bar (87 PSI)
	DA: 5 bar (72 PSI)
Air hose connection	1/8" (Pneumatic Actuator 04)
	1/4" (Pneumatic Actuator 08 – 8)
Accessories	Electro-pneumatic Positioner
	Solenoid pilot valve

Pneumatic Actuator

Smooth operator

4.2 -
5.6 bar*

*(61-81)



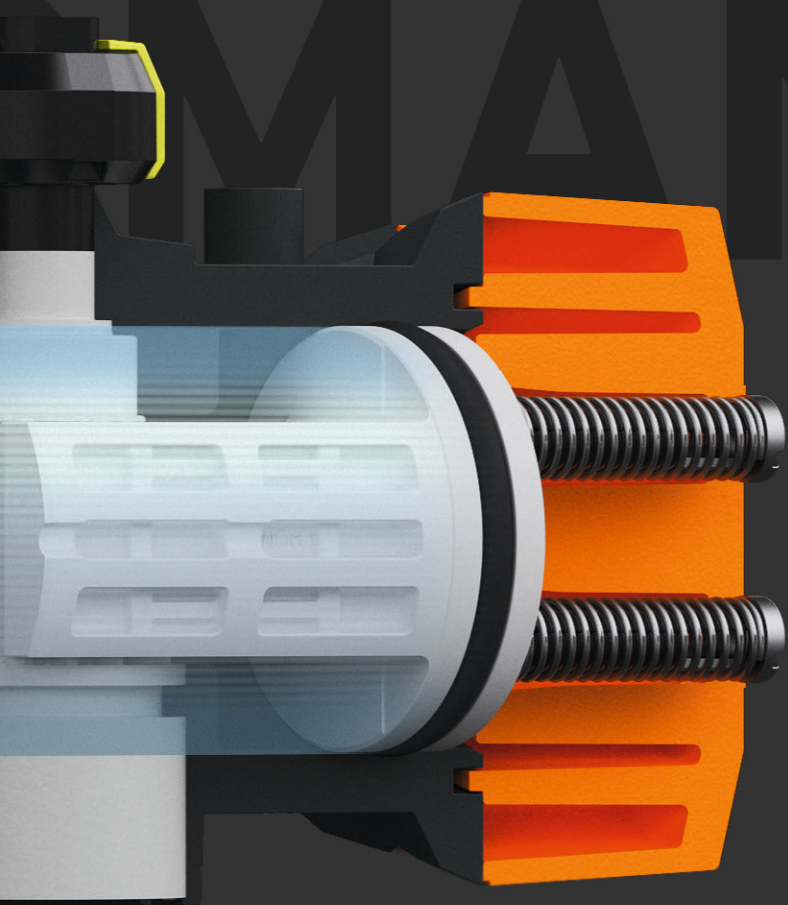
True torque performance

Torque specifications always comply with real life performance. It does what it says.

One process

Interoperable solutions, specially designed and optimized for the Ball Valve 546 Pro.

PERFORMANCE



25%
more efficient*

*Compared to predecessor products

Assured safety

100% performance for the life of the actuator, designed for compressed air systems from 4.2 to 5.6 bar*, and SIL 2 compliant.

*(61-81 PSI)

Corrosion-free

Fiberglass reinforced polypropylene provides superior chemical corrosion resistance compared to metal or other plastics - especially in alkaline or acidic environments.

All in one solution

Precise control

The perfect valve pack. The Electro-pneumatic Positioner was tuned and tested with the Pneumatic Actuator and the Ball Valve 546 Pro. Thanks to the perfect alignment, precise flow control becomes simple. Additionally, an auto-tune function ensures quick commissioning. The Pneumatic Actuator and the Electro-pneumatic Positioner are also available for diaphragm valves type DIASTAR.

Pneumatic Actuator

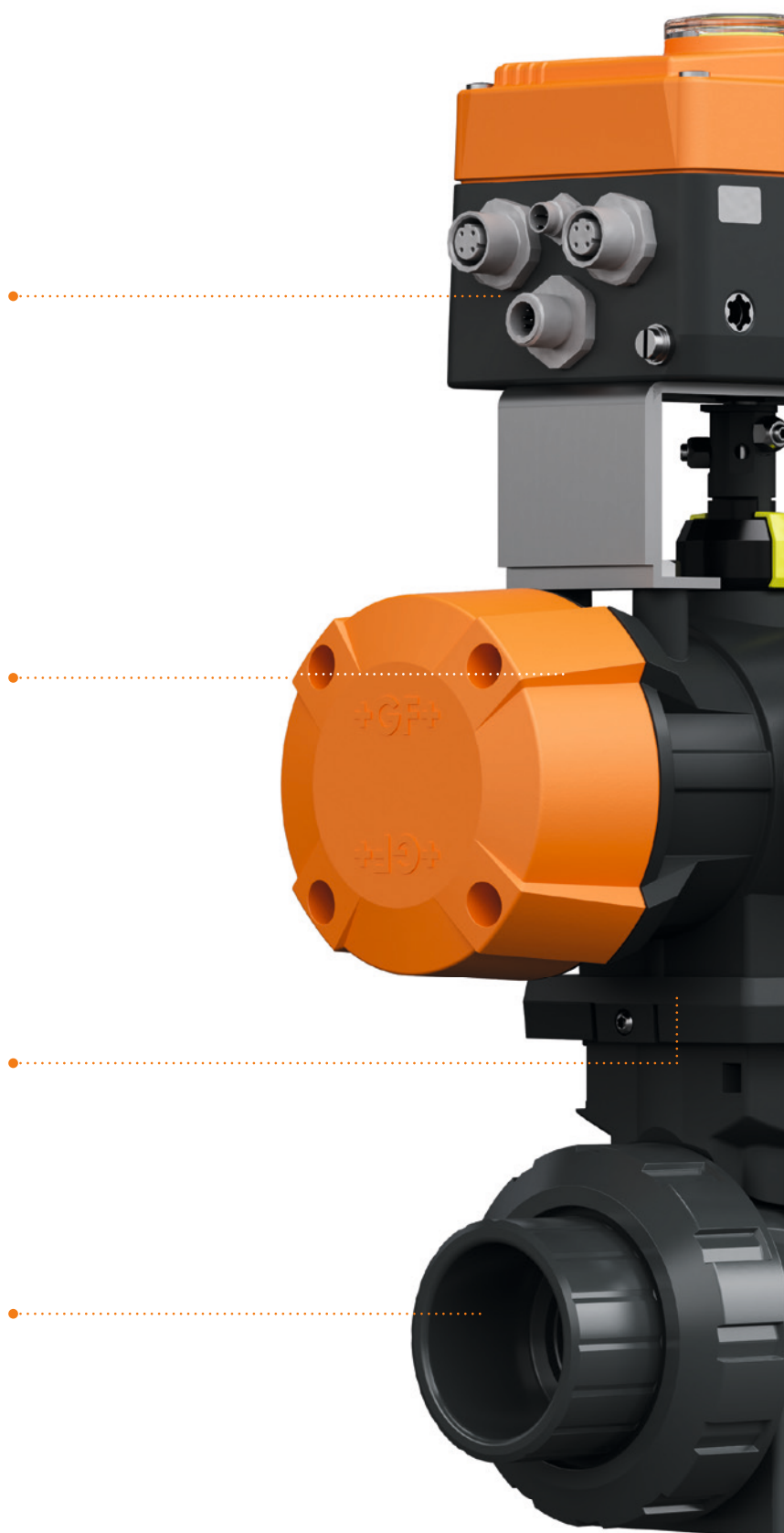
The pneumatic actuators are considerably more compact than earlier models and therefore support compact installation with tighter spacing of PP-GF pipes, leaving more space in order to install all necessary components more easily.

Automation

Even though valves are pre-assembled, standard interfaces allow easy modification if required. The connection kit is compact and also holds an additional capacitive limit switch.

Connected valve

Flexible sizing to find the right fit - The new design of the interface between the Ball Valve 546 Pro and the Pneumatic Actuator range enable users to find the right fit in terms of torque and size even in low-pressure applications. Choose from standard configurations or contact GF Piping Systems for customized assemblies.





100%

system flexibility

27%

more compact*



Gateway to digitalization

100%

recyclable composite material

* maximum difference compared to previous models

Together as one

We make Process Automation easy

GF Piping Systems is your experienced partner with a full portfolio of measurement, control, actuation components, and valves, which are easy to install and use, and have local support through all project phases. We offer the full package with our products and solutions, providing top-quality installation, a highly skilled team of experts standing by our customers' side every step of the way worldwide, and digitalized services ensuring a project is at the forefront of the market.

One user experience across the whole control loop

Accurate measurement is the basis for reliable process control

Physical parameters as well as analytics, including installation fittings, for an effortless combination.

Precise control throughout your automation loop

Single or dual channel with additional control capabilities.

Reliable actuation with configuration flexibility

Electric and pneumatic actuators for high flexibility on standardized valve interfaces. A wide range of accessories complete our actuation portfolio.

The right valve for your application

Ball Valves, Butterfly Valves, Diaphragm Valves, and various process valves including pipe connections that make installation a breeze.



www.gfps.com/processautomation

Specialized Solutions

Ready when you are

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

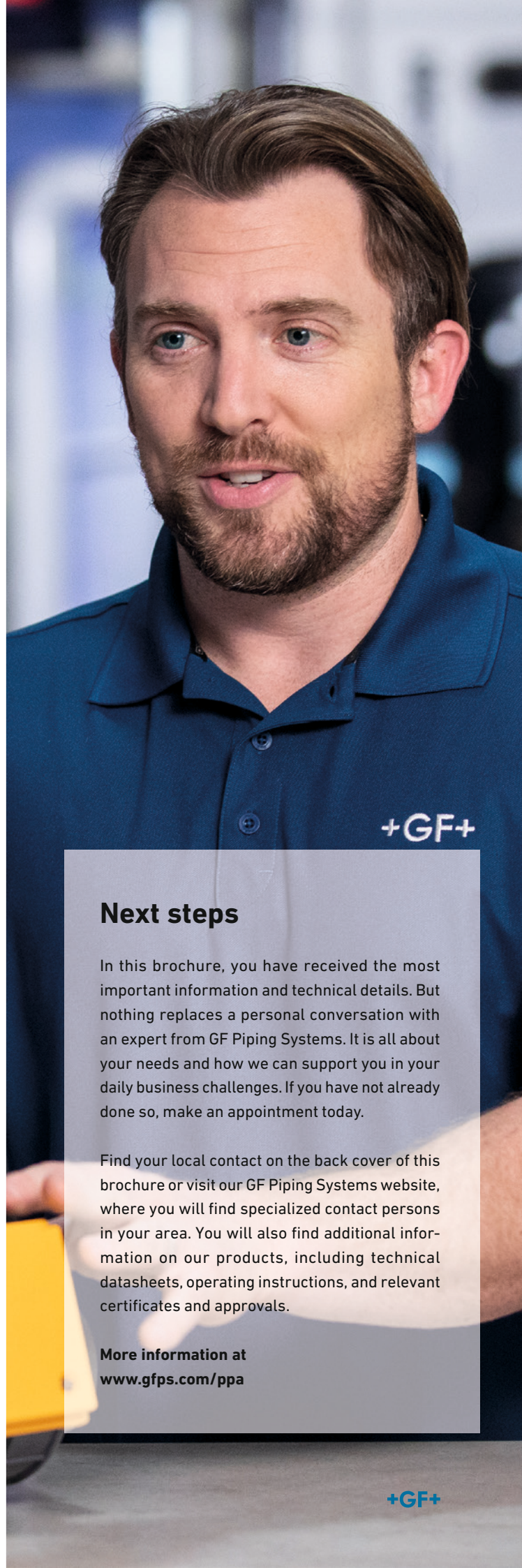
The libraries cover three key areas for the design, creation, and maintenance of a project: Building Information Modeling, the Plant Design Software, and the CAD Library, helping you reduce costs and construction times.



Engineering

Increase the efficiency of your project with the tailor-made analysis packages from GF Piping Systems and decide which offer is right for you according to your needs. You have the choice between Project Analysis and Advanced Engineering, thus always receiving the appropriate support in every phase of your project. Established knowledge, guiding you through.

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.

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