

Control and regulate your process

Excellence is our passion
We add value

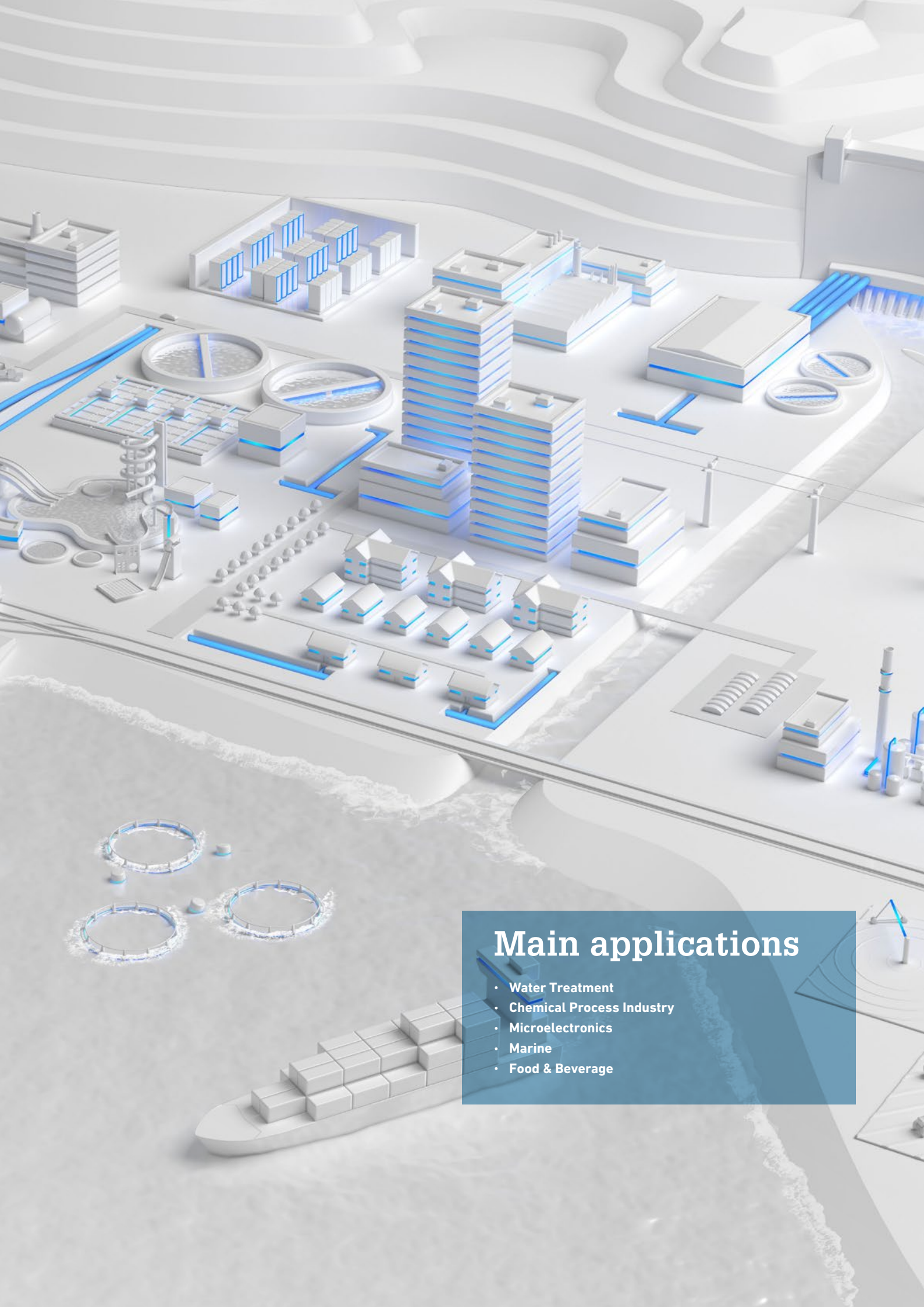
Driven to maximum performance

At GF Piping Systems, we offer one of the most comprehensive product portfolios for thermoplastic valve solutions. Our valves are available in various dimensions, materials, chemical resistances, standards, pipe connections, actuation-, and operation principles. With this, we can offer fitting solutions for all application requirements across different industries - from manual shut-off valves to fully automated control valves.

Our broad portfolio covers all commonly used valve types, including Ball Valves, Butterfly Valves, and Diaphragm Valves. Additionally, we can offer a wide range of other valves, such as Check Valves, PRVs, Solenoid Valves, and much more. The modular design of the valves allows for seamless integration

of pneumatic or electric actuators and optional accessories such as digital position feedback sensors. Digital connectivity standards and communication protocols like Modbus TCP, PROFINET, and EtherNet/IP can easily widen the possible fields of application while futureproofing the piping system and individual components.

With our vast offering of various sensors for flow measurement and liquid analysis and our transmitters and controllers, we can ensure reliable plug-and-play solutions customized to the challenges and requirements of your needs. Our Process Automation solutions provide long-lasting and sustainable operation while simultaneously reducing maintenance, thus increasing operational performance.



Main applications

- Water Treatment
- Chemical Process Industry
- Microelectronics
- Marine
- Food & Beverage



Ball valves

High-quality components are essential for reliable and efficient operation of piping systems. That is why ball valves from GF Piping Systems are always the ideal solution. No matter whether in the chemical process industry, microelectronics, or water treatment: GF Piping Systems reliably covers a variety of applications with its broad product range. From a simple, manually operated shut-off valve to a fully automated ball valve – all our solutions offer genuine value and meet the highest performance and quality requirements, without compromise.



- 1 Quick-Label on request
- 2 Integrated tool
- 3 Ergonomic level lockable as standard
- 4 Interface for flexible automation and accessories
- 5 Reinforced security break point in the stem interface
- 6 Double stem seals
- 7 Dynamic backing seal
- 8 Saw tooth thread suitable for plastics
- 9 Smooth spherical surface
- 10 Fastening system with integrated threaded bushes
- 11 Data-Matrix-Code

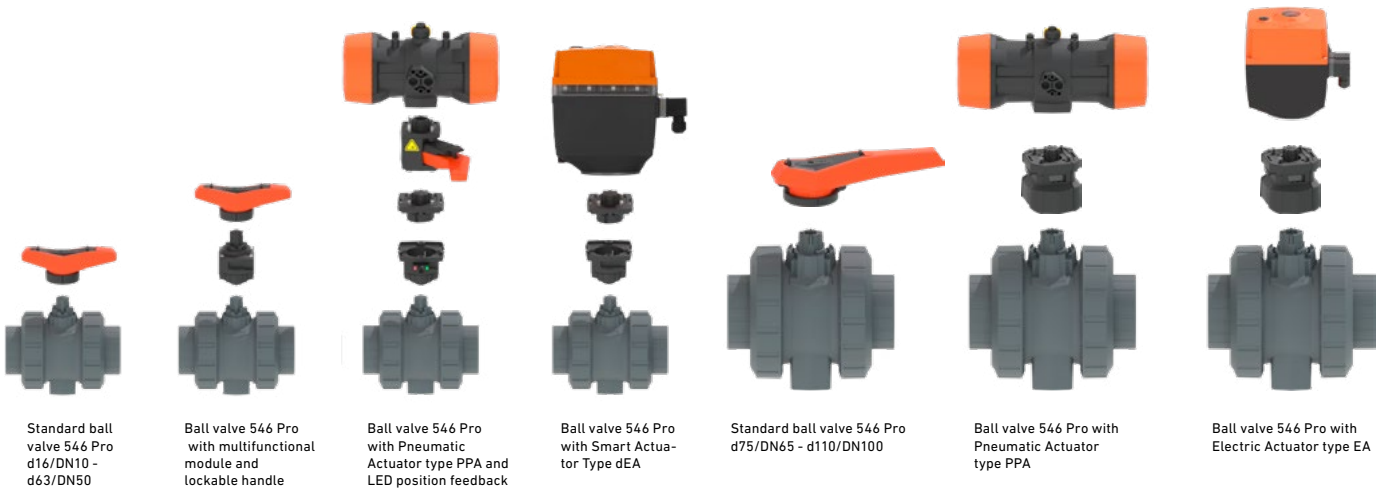
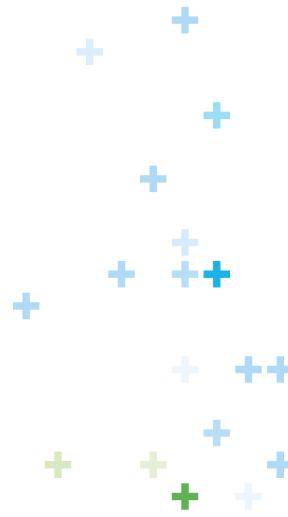
Ball Valve Pro-Features



Ball valves

Ready for any challenge

Our comprehensive portfolio of highest quality ball valves and decades of experience enable us to ensure state-of-the-art technology and customizable solutions for every application. The versatile, modular design and the wide range of available materials make the Ball Valve Pro lineup by GF Piping Systems the perfect solution for every need.





View products



Manual

Actuated

General										
	2-way ball valve	2-way linear ball valve	2-way ball valve	3-way ball valve	2-way metring ball valve	Electric	Pneumatic			
Type	546 Pro	Linear 546 Pro	542	543 Pro	523 Pro	127	179-184	167-170	546 Pro P	543 Pro P
Basic type						546 Pro	546 Pro	543 Pro	546 Pro	543 Pro
Actuator type						EA15	EA25	EA25	PPA04-80	PPA08-80
Smart actuator type							dEA25	dEA25		
Dimension DN	10-100	10-50	10-50	10-50	10-15	10-50	10-100	10-50	10-100	10-50
Pressure range PN	ABS/PP-H: 10 PVC/PVDF: 16	10	PP-H: 10 PVC: 16	10	ABS/PP-H: 10 PVC/PVDF: 16	10	10	10	10	10
Materials										
PVC-U	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PVC-C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ABS	✓	✓		✓		✓	✓	✓	✓	✓
PP-H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PVDF	✓	✓		✓	✓	✓	✓	✓	✓	✓
Type of connection										
Sockets	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spigots	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Flanges wafer style	✓	✓		✓	✓	✓	✓		✓	
Threaded sockets	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sealing materials										
EPDM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FKM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FFKM	✓	✓		✓	✓	✓	✓	✓	✓	✓
Actuation										
Hand operated	✓	✓	✓	✓	✓					
Pneumatic actuated									✓	✓
Electric actuated	✓					✓	✓	✓		

Valve ends available in PE

*Electric and pneumatic actuation possible



COBRA

SÉQUENTIEL N° 4

Butterfly valves

Functionality in every detail. Specified material properties and the innovative technical design provide the highest level of safety and quality in the application. Depending on the configuration of the butterfly valve, characteristic product features and functionalities can be selectively combined: from the choice of manual, electric, or pneumatic actuator to diverse flow and sealing components as well as electrical feedback systems and integration of individual regulating and control elements.

Butterfly Valve 565

Butterfly Valve 567/578



- 1 Lockable ergonomic lever
- 2 Data-Matrix-Code
- 3 Interface for flexible automation (ISO 5211)
- 4 Standard 5° ratchet setting
- 5 Optional electric position indicator
- 6 PVDF/PA-GF disc
- 7 Fiber reinforced housing and inner disc
- 8 EPDM or FKM sleeve
- 9 Short installation length
- 10 Wafer & Lug housing available

- 1 Lockable ergonomic lever
- 2 Standard interface conforms to ISO 5211
- 3 Integrated electric position indicator (optional)
- 4 Standard 5° ratchet setting (fine adjustment as option)
- 5 Double eccentric operating principle
- 6 Disc, inner body and bearing bushes made of the same material as the pipeline
- 7 Profile seat in the passage
- 8 Housing made from PP-GF available as wafer and lug style version
- 9 Special seal to connecting element
- 10 Optimized modular components double internal shaft seal on both sides
- 11 Wafer (567) / Lug (578) butterfly valve

Butterfly valves

Convincing in function and design

As well as being easy to open and close, butterfly valves must be versatile enough to combine with a huge range of system components. All GF Piping Systems butterfly valves are modular, enabling them to be integrated into any gas or liquid piping system with ease. Their innovative operating principle protects the valve seal and extends the system's overall service life.



Butterfly Valve 567
Wafer-Style



Butterfly Valve 578
Lug-Style with handlever



Butterfly Valve 565
Wafer-Style with
handlever



Butterfly Valve 565
Lug-Style with
reduction gear



Butterfly Valve 565
Wafer-Style with
Pneumatic Actuator
type PPA - available
until DN80



Butterfly Valve 565
Lug-Style with Smart
Actuator; optional
manual override



Butterfly Valve 565
Wafer-Style with
Electric Actuator;
optional manual
override and electric
position indicator

View products

Manual

Actuated



General

	Manual							Actuated						
	565	567	578	065	039	038	044	Electric			Pneumatic			Pneumatic/ electric
Type	565	567	578	065	039	038	044	565	145/ 146/147	038-E/ 039-E	565	240/ 243/244	038-P/ 039-P	044-P
Basic type								565	567/ 578	038/ 039	565	567/ 578	038/ 039	044
Actuator type								EA45/ 120/ 250	EA45/ 120/ 250	EA120/ 250	PPA40- 80/PA30- 70	PPA40- 80/PA30- 70	PA30- 70	PA30- 70
Smart actuator type								dEA45/ 120/ 250	dEA45/ 120/ 250	dEA120/ 250				
Dimension DN	50- 300	50- 600	50- 300	50- 350	50- 1200	50- 1200	50- 300	50- 300	50- 600	50- 1200	50- 300	50- 600	50- 1200	50- 300
Pressure range PN	6-16	6-10	10	6-16	10/16	10/16	16	4-10	4-10	4-10	4-10	6-10	10	16

Materials

PVC-U		✓	✓						✓			✓		
PVC-C		✓	✓						✓			✓		
ABS		✓	✓						✓			✓		
PP-H		✓	✓						✓			✓		
PVDF		✓	✓						✓			✓		
PVDF/PA-GF	✓							✓			✓			
Ductile iron/ alu-bronze					✓	✓				✓			✓	
Disc ductile iron Rilsan coated					✓	✓				✓			✓	
St. steel					✓	✓				✓			✓	
St. steel PFA overmoulded				✓			✓							✓

Type of connection

Flanges wafer style	✓	✓			✓	✓		✓	✓	✓	✓	✓	✓	✓
Flanges lug style			✓	✓		✓			✓	✓		✓	✓	
Threaded sockets	✓							✓			✓			

Sealing materials

EPDM	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓
PTFE/FKM		✓	✓	✓					✓			✓		
FKM	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓
NBR					✓	✓				✓			✓	
PTFE/Silicon							✓	✓			✓	✓	✓	✓
Other					✓	✓	✓	✓			✓	✓	✓	✓

Actuation

Hand operated	✓	✓	✓	✓	✓	✓	✓							
Pneumatic actuated											✓	✓	✓	✓
Electric actuated								✓	✓	✓				✓
With gearbox	✓	✓	✓	✓	✓	✓	✓							

*Pneumatic Actuator type PPA available up to DN80
 **Pneumatic Actuator type PPA available up to DN125



Diaphragm valves

The growing demand for plant automation means that even valves which are isolated or not accessible for a compressed air system have to be automated. The electric diaphragm valve e-Diastar reduces time-consuming manual operations within the plant. Easy and fast retrofitting of hand operated valves is possible without disassembly. Thanks to its all-plastic design, it is durable and needs little maintenance, it ensures short downtimes and lower maintenance costs during installation and reduces maintenance costs even with aggressive and abrasive media.



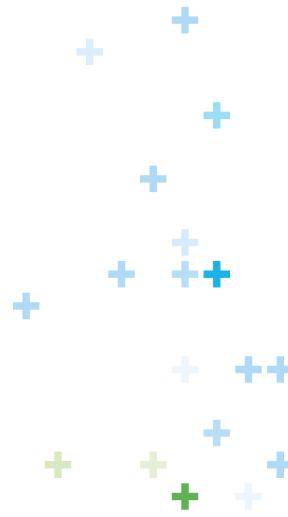
E-Diastar

- 1 Manual override**
Via attached handle
- 2 Feedback LED**
 - Valve position
 - System status
- 3 Housing**
 - Highly chemical resistant PP-GF
 - Low weight
 - Compact design
- 4 Versatile interfaces**
 - Open/middle/closed
 - Modulation: 4 to 20 mA
 - Profibus / Modbus RTU
 - Relay: mechanical position feedback
- 5 Valve position**
Always independent of the line pressure
- 6 Compact diaphragm valve**
Types 514, 515, Retrofitting of the existing type 517 possible DN 25, 50
- 7 Notch**
Visible indication of diaphragm material

Diaphragm valves

A class of their own

The GF Piping Systems range of plastic diaphragm valves includes manual, pneumatic and electric units in various sizes and for different pressure ranges, guaranteeing the right valve for any piping system. Designed to optimize the flow profile of the liquid inside the pipe, these valves are made entirely of plastic for excellent durability and reliability. The modular design allows them to be easily adapted to process conditions.



Diaphragm valve 515



Diaphragm valve with locked handwheel



Diaphragm valve with electrical feedback unit



Diaphragm valve 604/505



DIASTAR with electrical ASI



DIASTAR with electrical feedback ER55



DIASTAR with electropneumatic positioner type SPC

View products



Manual



Actuated



General

	Manual				Pneumatic						Electric
Type	514	515	517	519	604/605	Six	Ten	TenPlus	Sixteen	025	e-Diastar
Basic type											514/515
Actuator type											EAMT
Dimension DN	15-50	15-50	15-50	15-150 / 15-50	15 (1/2")	15-50	15-50	15-50	15-50	65-150	25-50
Pressure range PN	up to 16	up to 16	up to 16	up to 16	6	6	10	10	up to 16	up to 10	10

Materials

	Manual				Actuated						
PVC-U	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
PVC-C	✓	✓	✓		✓	✓	✓	✓	✓	✓	
ABS	✓	✓				✓	✓	✓	✓	✓	
PP-H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PP-N		✓		✓		✓	✓	✓	✓		
PVDF	✓	✓	✓		✓		✓	✓	✓	✓	✓
PVDF-HP	✓	✓	✓	✓			✓	✓	✓	✓	

Type of connection

	Manual				Actuated						
Sockets	✓				✓	✓	✓	✓	✓		✓
Spigots	✓	✓		✓	✓	✓	✓	✓	✓		✓
Flanges wafer style			✓			✓	✓	✓	✓	✓	
Threaded sockets	✓				✓	✓	✓	✓	✓		

Sealing materials

	Manual				Actuated						
EPDM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PTFE/EPDM	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
PTFE/FKM	✓	✓	✓	✓	✓		✓	✓	✓		✓
FKM	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
FFKM					✓						
NBR	✓	✓	✓			✓	✓		✓	✓	

Actuation

	Manual				Actuated						
Hand operated	✓	✓	✓	✓							
Pneumatic actuated						✓	✓	✓	✓	✓	
Electric actuated											✓



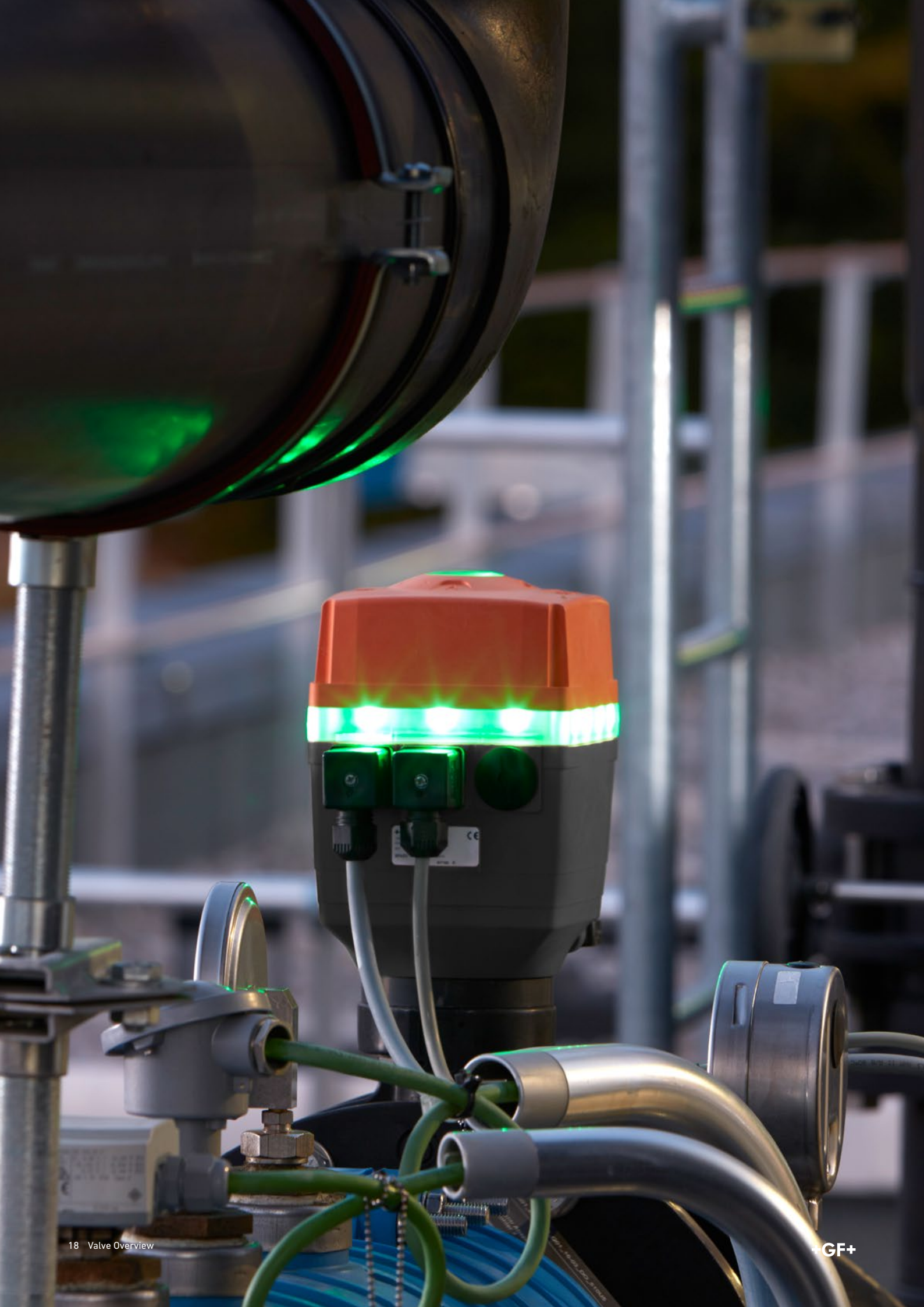
2000
1500
1000
500
200
H2O
bei 20°C
l/h

G 1/2" 40-60%

Process control valves

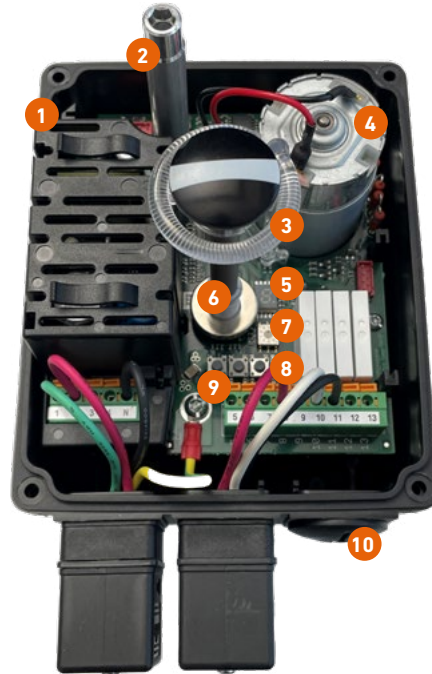
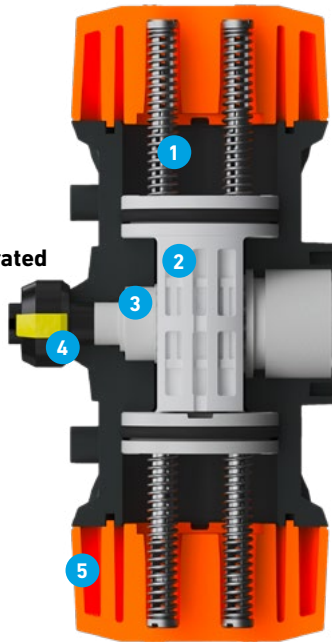
At GF Piping Systems, we can offer a wide range of control valves to reliably and safely cover various aspects of even the most demanding processes. Our solutions include Solenoid- and Polit valves, Pressure regulating valves, check valves, Ventilating- and Bleed valves, and many more.

	Type	PVC-U	PVC-C	ABS	PP-H	PVDF	PVDF-HP	Others	Dimension DN (mm)	Pressure range PN (bar)
	157	✓						✓	4-8	0-4
	160/161	✓							10-20	0-3
	165	✓				✓			15-50	0.5-6
	166				✓	✓			3-5	0-10
	582	✓	✓		✓	✓	✓		10-50	10
	V82	✓			✓	✓			65-100	DN65-80: 6 DN100: 4
	586	✓	✓		✓	✓			10-50	10
	V86	✓			✓	✓	✓		65-100	DN65-80: 6 DN100: 4
	335		PVC-U transparent, Polyamid, Polysulfon						25-65	10
	SK		PVC-U transparent, Polysulfon						10-25	10
	561/562	✓	✓	✓	✓	✓			10-100	10/16
	369	✓			✓	✓			32-300	6-10
	303/304	✓		✓					10-80	10
	P20	✓			✓	✓			10-80	10
	305/306	✓	✓	✓	✓			✓	15-80	10
	V251	✓			✓	✓			10-50	10
	Z500/ Z501	✓			✓	✓				0-6/ 0-10
	591/595	✓	✓	✓	✓	✓			10-100	10/16
	PV94/ PV95							✓	1,2-2	0-10
	MNL 532							✓	5.5	2-10
	5470							✓	4	2-10



Actuators

- 1 Preloaded spring
- 2 Piston with rack
- 3 Pinion Shaft
- 4 Optical position indicator with integrated NAMUR interface
- 5 PP-GF housing



- 1 Accessories slot
- 2 Shaft for integrated emergency manual override
- 3 LED light tube
- 4 Motor
- 5 Display for error code
- 6 Digital position detection
- 7 Integrated heater with dial
- 8 Teach buttons for adjustment
- 9 Terminals
- 10 Connections for further plugs



Pneumatic Actuator
PPA 04 - 80
Single acting (FC/F0)

Pneumatic Actuator
PPA 04 - 80
Double acting (DA)

Electric Actuator
EA15

Electric Actuator
EA25

Smart Actuator
dEA25 - 250

Electric Actuator
EA120

Electric Actuator
EA250



General

Type	Pneumatic Actuator type PPA 04-80	Pneumatic Actuator type PA 30-70	Electric Actuator type EA	Smart Actuator type dEA
Actuation principle	Pneumatic		Electric	
Cycle time	< 2 s	1-2 s	5-20 s	
Material	PP-GF	Aluminium	PP-GF	
Mechanical interface	F03-07	F03-12	F05-07	
Torque	3-40 Nm	15-480 Nm	10-250 Nm	

Seamless connectivity

Leading-edge field devices are intelligent and have a vast amount of relevant process and device data available. Connectivity technologies unlock this data, leading to increased efficiency in daily operation and maintenance.

We help our customers tackle the complex challenges they face on projects worldwide by providing connectivity technologies that fit their system environments, going from analog to the new digital age.

Our solutions allow for the automation of processes that provide remote access, high data transfer rates, and real-time diagnostic insights, giving users access to all relevant device parameters 24/7, 365.



EtherNet/IP



Supporting future-proof Industrial Ethernet protocols



State-of-the-art network technology

- Seamless access to field device data without complex, expensive, and error-prone protocol conversions
- Flexible network topology concepts for any kind of plant environment



Up to 40% more efficient in commissioning and maintenance

- Remote access to field devices for simple parameterization and commissioning
- Real-time insights into device health, preventive maintenance and diagnostics for troubleshooting
- Plug&Play device exchange with automatic re-configuration of a new device



Up to 30% increase in operational performance

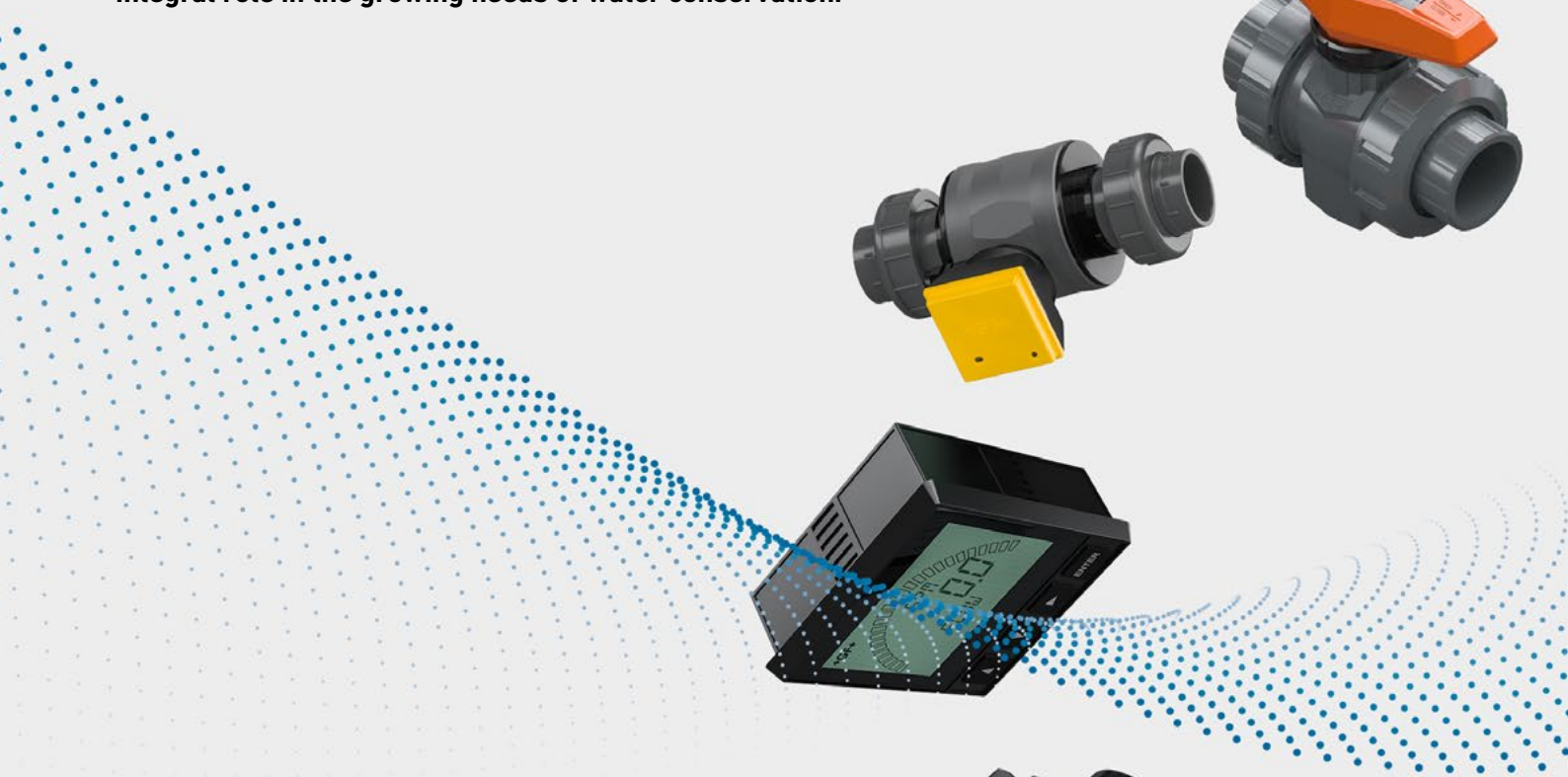
- Digital data transfer leads to accurate process values
- Devices offer multiple process variables
- Trend monitoring of any process variable for continuous process optimization and preventive maintenance
- High availability of a plant by robust communication

www.gfps.com/connectivity

Together as one

We make Process Automation easy

The water treatment market faces several critical issues: increasing urbanization and global warming resulting in one of the biggest concerns, namely water scarcity. Process Automation has an integral role in the growing needs of water conservation.



GF Piping Systems offer deep application knowledge of the entire process within the water treatment industry. Depending on the application area, there are different water treatment process challenges, ranging from guaranteeing high water qualities and providing reliable measurements to assuring stringent regulations. Plastic piping solutions from GF Piping Systems provide higher efficiency around the water cycle with increased productivity and lower operational and overall costs.

- Non-corrosive solutions
- Higher efficiency around the water cycle with increased productivity
- Lower operational and overall costs

One user experience across the whole control loop

GF Piping Systems is your experienced partner with a full portfolio of measurement, control, and actuation components, 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.



Design (Planning phase)

Easy planning thanks to application-specific solutions making an effortless combination around the complete control loop.



Select (Ordering phase)

Easy to select and order via configurators and matching components throughout the whole portfolio.



Install (Building phase)

Easy planning thanks to application-specific solutions making an effortless combination around the complete control loop.



Own (Operation phase)

Easy monitoring once installed, including spare part availability. Long lifetime and low maintenance make for low downtimes.

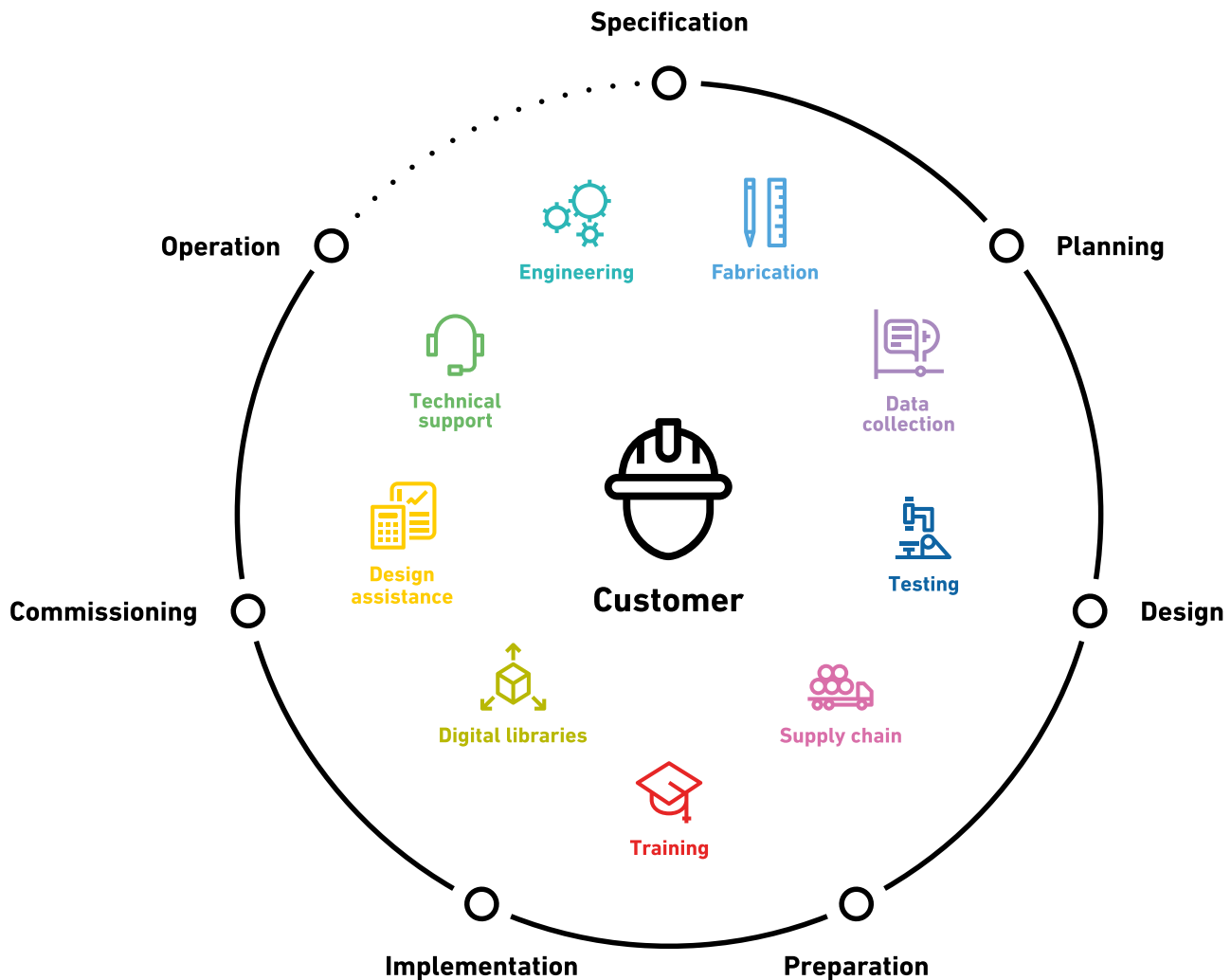
www.gfps.com/processautomation



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.



Taking care of your needs

GF Piping Systems supports the conception and design process of a project from the outset to ensure that a sustainable and efficient solution is achieved. Whether in the selection of the right plastic solution from our extensive portfolio, the management of complex sub-projects, or quality control based on recognized international standards

- you can benefit from Specialized Solutions for all application areas and references from a wide range of industries across the entire product range.

More information at
gfps.com/specialized-solutions



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. Unlimited collaboration, unleash your creativity.



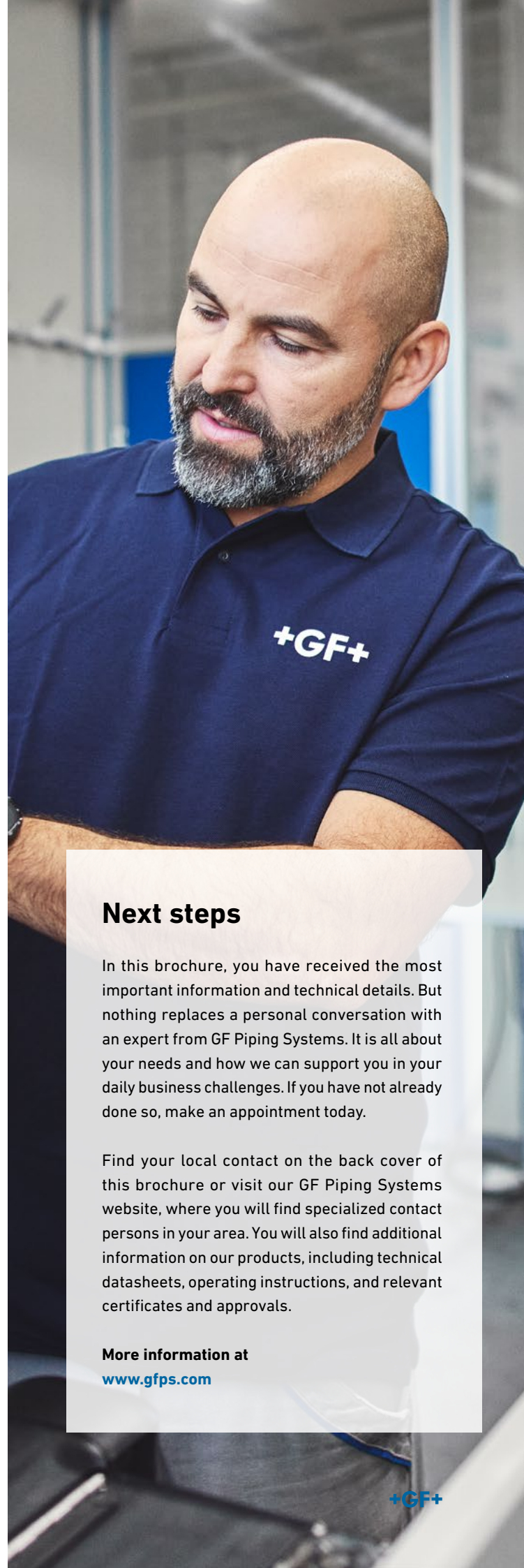
Custom product design and prefabrication

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. Through our global network of flexible locations, we offer a wide range of comprehensive solutions. Tailored innovation, inspired by you.



Training

GF Piping Systems instructional courses to help you teach your customers and their installers essential knowledge for the welding of pipes and piping components, as well as indepth knowledge of butt and electrofusion connections. With Specialized education from GF Piping Systems, we help prevent damage before it occurs, with well-trained and qualified installers. Trusted training, empowering you.



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

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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