

automated ball valve – all our solutions offer genuine value and meet the highest performance and quality applications with its broad product range. From a simple, manually operated shut-off valve to a fully process industry, microelectronics, or water treatment: GF Piping Systems reliably covers a variety of ball valves from GF Piping Systems are always the ideal solution. No matter whether in the chemical High-quality components are essential for reliable and efficient operation of piping systems. That is why

# Diaphragm valves

diver maintenance costs during installation and reduces maintenance costs even with

disassembly. Thanks to its all-plastic design, it is durable and needs little maintenance, it ensures short

ing manual operations within the plant. Easy and fast retrofitting of hand operated valves is possible without

-muznos-emit sevent are to be automated. The electric diaphragm valve e-Diastar reduces time-consum-

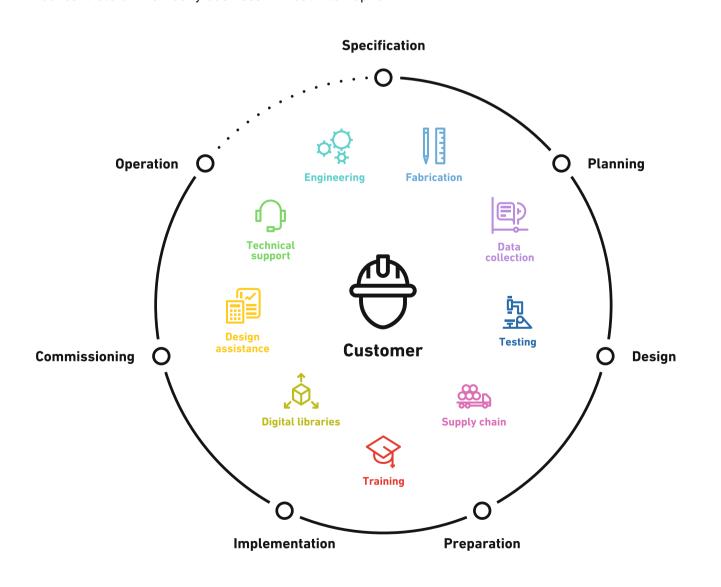
The growing demand for plant automation means that even valves which are isolated or not accessible for a

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**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 **GF Piping Systems** 

### Local support around the world

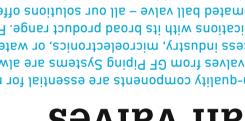
Visit our webpage to get in touch with your local specialist: www.gfps.com/our-locations



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## Ball valves



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

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

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

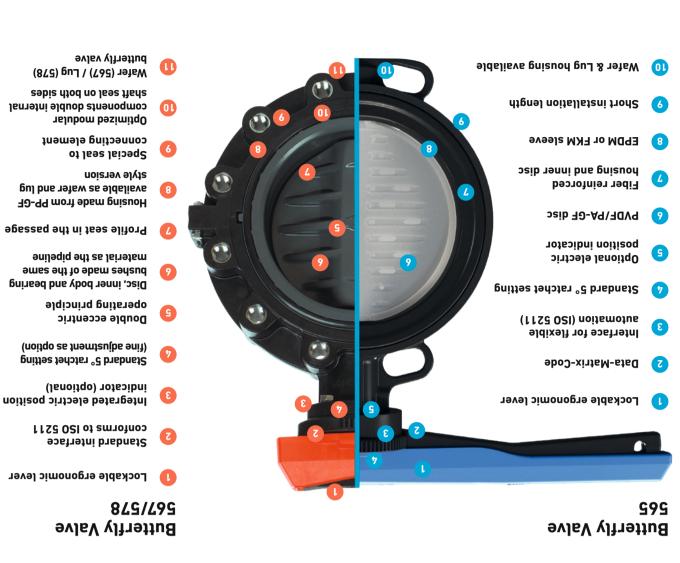
Butterfly Valve 565 Lug-Style with reduction gear

Butterfly Valve 565 Wafer-Style with

reveloped diw slyt2-pu.

Butterfly Valve 578

Butterfly Valve 567 Wafer-Style



principle of the 567/578 protects the valve seal and extends the system's overall service life. lighter weight. The 565 comes with the same installation length as metal valves. The innovative operating to outperform metal valves in almost every way, thanks to a higher resistance against corrosion and a be integrated into many gas or liquid piping system with ease. Plastic butterfly valves have already proven huge range of system components. All GF Piping Systems butterfly valves are modular, enabling them to As well as being easy to open and close, butterfly valves have to be versatile enough to be combined with a

### Butterfly valves





**Reliable actuation with** configuration flexibility Electric and pneumatic actuators for high

Physical parameters as well as analytics, including installation fi ttings, for an

Single or dual channel with additional

effortless combination.

control capabilities.

installation a breeze.

**Precise control throughout** your automation loop

The right valve for your application Ball Valves, Butterfly Valves, Diaphragm Valves, and various process valves

including pipe connections that make

flexibility on standardized valve interfaces. A wide range of accessories complete our actuation portfolio

the whole control loop Accurate measurement is the basis for reliable process control

**One user experience across** 

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 off er 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.

# **Automation easy**

Together as one

# We make Process

We offer a complete range of actuators, including both pneumatic and electric Actuators. Thanks to their Actuators

parameters 24/7, 365. access, high data transfer rates, and realtime diagnostic insights, giving users access to all relevant device 5211 interface. Our connectivity solutions allow for the automation of processes that provide remote All actuators feature a long lifetime. Connections to third-party valves are no problem due to the EN ISO switches, fail-safe unit, AS-Interface connection, etc.). The housing material of choice is the robust PP-GF. modular design, the actuators can be configured specifically to your application (e.g. positioner, limits

tnemteulbe 8 Teach buttons for Integrated heater with dial noitostek Digital position error code enisuod 70-99 🛛 🔁 Display for 93617910 Sundare indicator with integrated Noton 🚺 Optical position ədut tdpi) DƏJ 🛛 💽 fted2 noini9 🛛 🗵 **OVELLIDE** ເຊິ່ງອຸກເຊຍ ເວັດອີກອອມອອງ 🔁 2 Piston with rack Shaft for integrated 🚺 🛛 Accessories slot Preloaded spring











Connections for further plugs

elenimnəT 🛛 😯

ToteutoA cirtoel3



TOJEUTOA DITTO91











ToteutoA cirtoel3



















PPA 04 - 80 PPA 04 - 80



### **Process control valves**

	Туре	PVC-U	PVC-C	ABS	РР-Н	PVDF	PVDF- HP	Others	Dimen- sion DN (mm)	Pressure range PN (bar)
	157	~						~	4 - 8	0 - 4
	160/161	$\checkmark$							10-20	0 - 3
Solenoid valve	165	~				~			15-50	0.5-6
	166				~	~			sion DN (mm) 4-8 10-20	0-10
Dressure	582	$\checkmark$	$\checkmark$		$\checkmark$	✓	$\checkmark$		10-50	10
Variable area flow meter Cone check valve Wafer check valve Angle seat check valve Water jet suction pump Strainer Trottle valve Pressure gauge Ventilating & Bleed Valves	V82	~			~	✓			65-100	DN65-80: 6 DN100: 4
Prossuro	586	$\checkmark$	~		~	✓			10-50	10
retaining valve Variable area flow	V86	~			✓	✓	~		65-100	DN65-80: 6 DN100: 4
area flow	335		PVC-	U transpa	rent, Polya	mid, Polys	ulfon		25-65	10
Cone check	SK			PVC-U tra	insparent, l	Polysulfon			10-25	10
neter Cone check valve Wafer check	561/562	~	$\checkmark$	~	✓	~			10-100	10/16
	369	$\checkmark$			$\checkmark$	✓			32-300	6-10
	303/304	$\checkmark$		$\checkmark$					10-80	10
	P20	$\checkmark$			✓	✓			10-80	10
Strainer	305/306	$\checkmark$	$\checkmark$	~	~			~	15-80	10
Trottle valve	V251	~			~	√			10-50	10
	Z500/ Z501	$\checkmark$			~	~				0-6/ 0-10
	591/595	$\checkmark$	$\checkmark$	~	~	✓			10-100	10/16
	PV94/ PV95							$\checkmark$	1,2-2	0-10
Pilot valves	MNL 532							~	5.5	2-10
	5470							~	4	2-10

### **Butterfly valves**

Manual							Actuated								
General	5.6	Ŏ,	0	5	•	1	Ó	-			So de la comercia de		7	\$	
									Electric			Pneumati	:	Pneumatic electric	
Туре	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					
	50 -	50 -	50-	50-	50 -	50-	50-	50 -	50 -	50 -	50-	50 -	50-	50 -	
Dimension DN	300	600	300	350	1200	1200	300	300	600	1200	300	600	1200	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		✓	✓						✓			✓			
PP-N															
PVDF		✓	✓						✓			✓			
PVDF-HP															
PVDF/PA-GF	✓							✓			✓				
Ductile iron/ alu-bronze					<ul> <li>Image: A start of the start of</li></ul>	✓				~			<b>√</b>		
Disc ductile iron Rilsan coated					<b>√</b>	<b>~</b>				<ul> <li>Image: A start of the start of</li></ul>					
St. steel					✓	<b>√</b>				✓			✓		
St. steel PFA overmoulded				✓			~							✓	
Type of connection															
Sockets															
Spigots															
Flanges wafer style	✓	✓			✓		~	✓	✓	✓	✓	✓	✓	✓	
Flanges lug style			✓	~		~			~	✓		✓	✓		
Threaded sockets	~							✓			✓				
Sealing materials															
EPDM	~	~	✓		~	~		~	~	~	✓	~	~		
PTFE/EPDM						-									
PTFE/FKM		~	✓	~					~			~			
FKM	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	✓		
FFKM															
NBR					~	~				✓			✓		
PTFE/Silicon							✓		✓	✓		✓	✓	~	
Other		<u>.</u>			✓	✓	✓		✓	✓		✓	✓	~	
Actuation															
Hand operated	~	~	✓	~	✓	~	~								
Pneumatic actuated						-					✓	~	~	~	
Electric actuated								✓	~	~				~	
With gearbox	~	~	~	✓	~	~	~					-			

### Accurate measurement is the basis for reliable process control

Our measurement offering will cover your needs: flow, pH, conductivity, level, temperature and various water quality parameters. Most sensors are available in plastic for the corresponding piping systems and are therefore highly resistant to chemicals. Our plug-and-play measurement products are self-explanatory, easy to maintain, and offered with suitable installation fittings.

- Chlorine Analyzer Systems
- Conductivity / Resistivity
- Dissolved Oxygen (DO)
- · Flow
- Level
- · pH/ORP
- Temperature Sensors • Pressure Sensors



### Precise control throughout your automation loop

The clever design makes life easy. All our measurement parameters can be connected with the same transmitter, a true multi-parameter controller. Due to their modular design, additional functionalities such as batch control or communication technologies can be added anytime. Our control products are simple to operate, have intuitive menu structures, and can be upgraded modularly.

• Transmitter & Controllers

Learn more about our Process Automation solutions: www.gfps.com/processautomation



Actuated

### Ball valves

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

				110					<b>1</b>	
General	2	2-way linear	2	2	2	-110-				440
	2-way ball valve	2-way linear ball valve	2-way ball valve	3-way ball valve	2-way metring ball valve		Electric		Pneu	imatic
Туре	546 Pro	Linear 546 Pro	542	543 Pro	523 Pro	127	179- 184	167- 170	546 Pro P	543 Pro F
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	~	✓	$\checkmark$	$\checkmark$	$\checkmark$	~	~	$\checkmark$	$\checkmark$	~
PVC-C	✓	✓	✓	~	✓	✓	✓	~	✓	✓
ABS	✓	~		~		✓	✓	✓	✓	✓
PP-H	✓	~	✓	~	✓	✓	✓	~	✓	~
PP-N										
PVDF	✓	~		~	✓	✓	✓	~	~	~
PVDF-HP										
PVDF/PA-GF										
Ductile iron/ alu-bronze				-						
Disc ductile iron Rilsan coated										
St. steel										
St. steel PFA overmoulded										
Type of connection										
Sockets	~	✓	$\checkmark$	$\checkmark$	~	~	✓	~	$\checkmark$	~
Spigots	✓	$\checkmark$	~	~	✓	~	✓	~	✓	~
Flanges wafer style	✓	✓		~	✓	✓	✓		✓	
Flanges lug style										
Threaded sockets	✓	✓	✓	✓	✓	✓	✓	~	✓	✓
Sealing materials										
EPDM	~	~	✓	~	✓	~	~	1	~	~
PTFE/EPDM										
PTFE/FKM										
FKM	✓	✓	✓	~	✓	✓	✓	✓	✓	✓
FFKM	✓	~		~	✓	✓	✓	~	✓	~
NBR								-		
PTFE/Silicon										
Other										
Actuation										
Hand operated	✓	✓	✓	$\checkmark$	$\checkmark$					
Pneumatic actuated	-	-	-	-					✓	~
Electric actuated						✓	~	✓		
With gearbox								•		

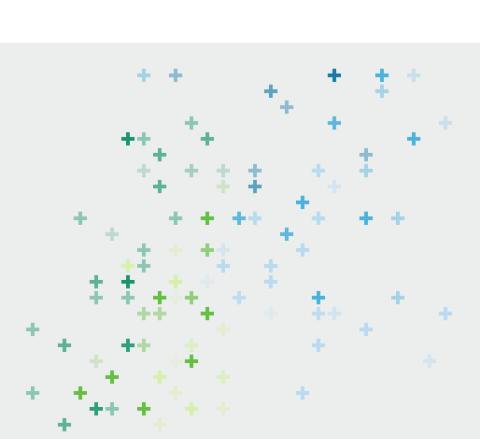
Manual

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

+ +

### Main Applications

- Water treatment
- Chemical process industry
- Food & Beverage
- Microelectronics



### Diaphragm valves

			Manual		Actuated								
General	Ĵ												
							Pneur	matic			Electric		
Туре	514	515	517	519	604/605	Six	Ten		Sixteen	025	e-Diasta		
Basic type											514/515		
Actuator type											EAMT		
Smart actuator type													
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	6	6	10-30	10			10		
		<u>up to To</u>	<u>up to 10</u>				10		<u>up to 10</u>	up to To	10		
Materials													
PVC-U	✓	✓	~		✓	~	✓	✓	✓	~	✓		
PVC-C	~	~	~		✓	✓	✓	✓	✓	~			
ABS	✓	✓				✓	✓	✓	✓	✓			
PP-H	~	~	~	✓	~	✓	✓	✓	✓	~	✓		
PP-N		~		✓		✓	✓	✓	✓				
PVDF	✓	~	~		~		✓	✓	✓	~	✓		
PVDF-HP	~	~	~	✓			✓	~	✓	~			
PVDF/PA-GF													
Ductile iron/ alu-bronze													
Disc ductile iron Rilsan coated													
St. steel													
St. steel PFA overmoulded													
Type of connection													
Sockets	~				~	~	~	~	~		$\checkmark$		
Spigots	✓	✓		~	✓	✓	✓	✓	✓		~		
Flanges wafer style			~			✓	✓	✓	✓	✓			
Flanges lug style	-												
Threaded sockets	✓				✓	~	✓	~	✓				
Sealing materials	-												
EPDM	✓	$\checkmark$	$\checkmark$	$\checkmark$	~	$\checkmark$	✓	~	√	~	✓		
PTFE/EPDM	- · · · · · · · · · · · · · · · · · · ·	 ✓	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	✓ ✓		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· ✓	· · · · · · · · · · · · · · · · · · ·		
PTFE/FKM	- ····································	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	✓		v	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		
FKM	- · · · · · · · · · · · · · · · · · · ·	✓	· ✓		✓	✓	✓	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	✓	· · · · · · · · · · · · · · · · · · ·		
FFKM	-	-	-		✓								
NBR	-	✓	✓			✓	✓		✓	✓			
PTFE/Silicon	-												
Other													
Actuation													
Hand operated	✓	✓	✓	~									
Pneumatic actuated						~	✓	✓	✓	~			
Electric actuated											✓		
With gearbox													