

Get your system
to the next level

Product Range Butterfly valves



Butterfly Valve 565

The new plastic butterfly valve

Lightweight, highly reliable
and cost-effective



Plastic Butterfly Valves have already proven to outperform metal valves in almost every way, thanks to a higher resistance against corrosion and a lighter weight. Now, a new generation has arrived to beat metal in cost-effectiveness, too.

Environmental regulations, water scarcity and an increasing demand of consumers and society for greener and more sustainable solutions are an important set of trends shaping customer behavior. The Butterfly Valve 565 is another important milestone in building a more sustainable future.



+ Lower production footprint

The waste of energy and resources in industrial production is reduced further by the long service life, thanks to a higher resistance against corrosion.

+ Lower overall costs

The low weight of the plastic material reduces the energy and resources needed for transport and installation. After installation, the advantages of the reduced static weight can become even more significant.

+ 10 tons weight saved

Replacing 600 metal butterfly valves with the new plastic Butterfly Valve 565 will save up to 10 tons in weight and reduce CO₂ emissions.

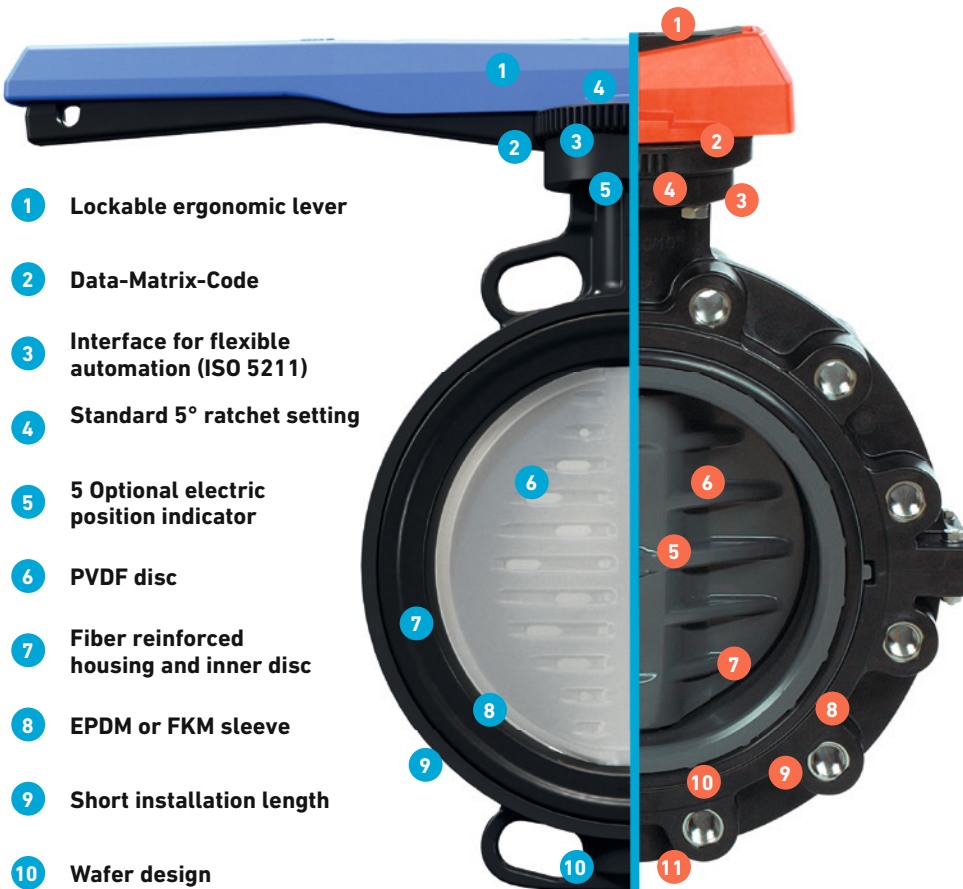


First-class technology - Convincing in function and design

What is impressive about the modular design of the system components is the first rate 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 disc
- 7 Fiber reinforced housing and inner disc
- 8 EPDM or FKM sleeve
- 9 Short installation length
- 10 Wafer design

- 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

Benefits of plastic butterfly valves

Swiss quality

As well as being easy to open and close, butterfly valves have to be versatile enough to be combined 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.

+ Lightweight

Thanks to its low weight, a single person can lift and install a plastic butterfly valve in just a few minutes. This also facilitates planning, since the low weight significantly reduces the need for costly transportation and personnel.

+ Corrosion resistant

Made from robust, high-performance plastic, GF Piping Systems' butterfly valves are highly resistant to corrosion, chemicals and other aggressive media.

+ Highly reliable

High-performance thermoplastics offer more protection against abrasion and corrosion. This guarantees a longer system lifetime as well as reduced maintenance costs and production stops.

+ Flexible and versatile

Our butterfly valves are based on a modular design, allowing them to be combined with a wide range of actuators, sealing elements and feedback systems.

Butterfly Valve 565

+ Ready for digitalization

With its standard interface, the Butterfly Valve 565 can be upgraded with various modules, such as the smart actuator. This allows for automation and digitization of your systems, making them even more cost-effective and efficient.

+ Direct replacement

The Butterfly Valve 565 comes in the same installation length as metal solutions. The exchange does not require any additional work on the pipes or new designs. This reduces the effort of both planning and installation, also thanks to a lighter weight.

+ Reduced costs

With the initial cost being comparable to metal solutions, the Butterfly Valve 565 outperforms its metal counterparts in the long run, reducing maintenance costs, thanks to its superior materials and design.

Butterfly Valve 567/578

+ Double eccentric design

The butterfly valves are based on a double eccentric operating principle, in which the disk does not touch the seal in the open position. This double eccentricity guarantees a longer lifetime of the system while at the same time reducing maintenance costs.

+ Extended service life

Standard valves contact the valve seal when open, causing it to degrade quickly. GF Piping Systems' butterfly valves do not, thanks to the double eccentric design, which maximizes service life.

+ Simple operation

A streamlined design significantly reduces torque, making it simple to switch the butterfly valve from 'open' to 'closed', thereby improving operational efficiency.






Technical details

More than the sum of its details




Taken together, innovative technologies, sophisticated materials processing and specifically implemented functionalities all contribute to the added value, on which our customers rely worldwide. Proven concepts are just as important as newly developed operating principles and individual components. The successful interaction of materials and technical elements leads to the high and dependable efficiency of these valves.

Manually operated butterfly valves

Plastic butterfly valves

Type		Disc material	Sealing material	Dimension	Pressure rating	Flange connection measurements
565 WAFER Style		PVDF/PA-GF	EPDM, FKM	50-300	6/10/16	PN 10/16
567 WAFER Style		PVC-U, PVC-C, ABS, PP-H, PVDF	EPDM, PTFE/KDM, FKM, PTFE/Silicone, others	50-600	6/10	PN 10
578 LUG Style		PVC-U, PVC-C, ABS, PP-H, PVDF	EPDM, PTFE/KDM, FKM, PTFE/Silicone, others	50-300	6/10	PN 10

Metal butterfly valves

Type		Disc material	Sealing material	Dimension	Pressure rating	Flange connection measurements
038 LUG Style		Ductile Iron, Rilsan-coated	EPDM, FKM, NBR, others	50-1200	10/16	PN 10*
039 WAFER Style		Ductile Iron, Rilsan-coated	EPDM, FKM, NBR, others	50-1200	10/16	PN 10*
044 WAFER Style		Stainless steel PFA coated	PTFE/Silicone, others	50-300	16	PN 10*
065 LUG Style		Stainless steel PFA doused	PTFE/FKM	50-350	6/10/16	PN 10*

* others on request



Learn more about plastic butterfly valves



Learn more about metal butterfly valves

Actuated butterfly valves



Type	Actuation Type	Fail safe to close (FC)	Fail safe to open (FO)	Double action (DA)	Type	Actuation Type	24V	230V	Type	Actuation type	24V	230V
565	PA 30-70	✓	✓	✓	565	EA45 / 120 / 250	✓	✓	565	dEA45 / 120 / 250	✓	✓
240	PA 30-70	✓	✓	✓	145	EA45 / 120 / 250	✓	✓	145	dEA45 / 120 / 250	✓	✓
243 / 244	PA 30-70	✓	✓	✓	146 / 147	EA45 / 120 / 250	✓	✓	146 / 147	dEA45 / 120 / 250	✓	✓

Type	Actuation Type	Fail safe to close (FC)	Fail safe to open (FO)	Double action (DA)	Type	Actuation Type	24V	230V	Type	Actuation Type	24V	230V
038-P	PA 30-70	✓	✓	✓	038-E	EA45 / 120 / 250	✓	✓	038-E	dEA45 / 120 / 250	✓	✓
039-P	PA 30-70	✓	✓	✓	039-E	EA45 / 120 / 250	✓	✓	039-E	dEA45 / 120 / 250	✓	✓
044-P	PA 30-70	✓	✓	✓	044-E	EA45 / 120 / 250	✓	✓	044-E	dEA45 / 120 / 250	✓	✓
-	-	-	-	-	-	-	-	-	-	-	-	-

Application areas

Your processes determine the system - our products ensure the necessary safety and efficiency



Water treatment

Economical and sustainable water treatment is becoming more and more important, especially in light of the increasing scarcity of resources. Thanks to their technical features and functionalities, the versatile butterfly valves from GF Piping Systems meet this global need. In water treatment applications they are mainly implemented to transport the water. Depending on the chemical composition of the medium, the use of different types of butterfly

valves is possible. For example, type 567 is generally preferred for its low weight, corrosion resistance and low tightening torque. A viable alternative to the plastic valves would be the metal butterfly valve type 039. This valve has been designed for demanding applications with a pressure rating of up to PN16 and because of its high stability offers added value in terms of resistance and durability.



Chemical process industry

Because of the aggressive environment of many applications in the chemical industry, production and transport processes in this segment pose a particular challenge to piping systems regarding safety and quality. When dosing, mixing and batching chemicals good flow and linear control characteristics are basic requirements for efficient and safe processes. Contamination

must be prevented in all process steps, especially surface treatment. Integrating the right system components is therefore crucial. Designed specifically for the requirements and stringent regulations in this demanding market, the butterfly valves from GF Piping Systems provide high flow performance and precise process control and regulation.



Energy

With smart and comprehensive plastic solutions, GF Piping Systems actively contributes to the successful realization of complex, highly specialized water and chemical applications in the energy production of today and tomorrow. Selecting ideal components in the right material and implementing them efficiently are decisive for successful processes as well as the entire system. GF Piping Systems offers solutions targeted for safety

and reliability and feature such outstanding properties, such as high performance, low weight, reduced energy consumption, excellent corrosion resistance and minimal downtime. The innovative design, flow efficiency and control characteristics, for which the butterfly valves are known, are especially appreciated in cooling applications in energy production.



Marine

The maintenance-free, easy and complete solutions of GF Piping Systems for water and cooling applications onboard help you to increase the safety and comfort of your passengers and the efficiency of your ship. At the same time, they contribute to lowering the

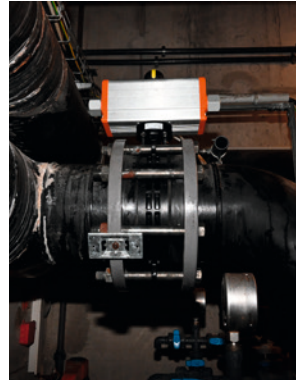
maintenance and overall costs and reducing downtimes as much as possible. Our products warrant the safe conveyance of drinking water and other process fluids on board – without altering their quality in the least.

Application areas

Where you can find us

Mining

Butterfly valves from GF Piping Systems meet the highest quality requirements and are therefore ideally suited for the harsh conditions of the mining industry. Durability and safety in the transport of a wide range of media are the focus of the development process.



Water parks

For the safety of the guests, continuous cleaning and disinfection of the facilities is indispensable in order to constantly maintain the required high water quality.

Cl gas electrolyse

Specific for the requirements and strict regulations of this demanding market developed butterfly valves from GF Piping Systems enable high flow capacity and precise process control and control.

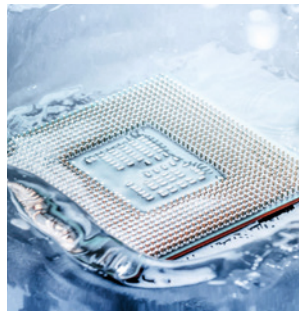


Reverse osmosis

Reverse osmosis is a purification process that uses semipermeable membranes to remove ions, unwanted molecules and larger particles from drinking water. GF Piping system Butterfly Valves will be here the superior solution.

Microelectronic

The GF Piping Systems butterfly valve is optimally designed for this demanding environment and, thanks to minimized dead spaces, improves the hygienic conditions in the application environment many times over.



Marine

On a ship, replacing 600 metal butterfly valves with the new plastic Butterfly Valve 565 will save up to 10 tons in weight and reduce CO2 emissions.



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

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