

## Butterfly Valve 565

# Beats metal in every round

Lightweight, highly reliable  
and cost-effective



# A robust lightweight

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.

The new Butterfly Valve 565 is the best choice for optimizing piping systems built for water applications and a wide range of other applications. This new generation comes at a significantly lower initial cost, and will save even more thanks to its lower static weight, requiring less energy for both operation and transportation. Installing the Butterfly Valve 565 is quick and easy, but thanks to its extremely high durability, it will be almost maintenance-free during its long service life.

## + 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.

## + 60% lighter

Thanks to its low weight, a single person can lift and install the Butterfly Valve 565 in just a few minutes. This also facilitates planning, since the low weight significantly reduces the need for costly transportation and personnel.

## + Highly reliable

The Butterfly Valve 565 is built to last. High-performance thermoplastics protect it from abrasion and corrosion. This guarantees a longer system lifetime, even under harsh conditions such as water hammers. The results are a reduction of both maintenance costs and production stops.



## + 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.

## + Ready for digitization

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.

## + Swiss quality

The Butterfly Valve 565 is produced by GF Piping Systems in Seewis (Grisons), Switzerland. High-quality valves have been produced here for over half a century. They combine technological innovation with the highest standards of material selection, manufacturing and quality testing for safety, durability and reliability.



To ensure the high quality standard, the butterfly valves are tested under the toughest conditions in a test stand.

# How plastic wins against corrosion and gravity

More than half a century ago, GF Piping Systems decided to switch from metal to plastic. This was both a revolutionary and a forward-looking step, as the disadvantages of metal have proven to be the advantages of plastic. The Butterfly Valve 565 is the newest product of this innovation process, outperforming its metal counterparts in every way.



✓	Short installation length	✓
✓	Light weight	✗
✓	Corrosion resistant	✗
✓	High p/T performance	✓

## Technical Data

<b>Dimension</b>	DN50-300, 2" - 12"
<b>Pressure rating</b>	DN50-150: PN16 / DN200-250: PN10 / DN300: PN6
<b>Materials</b>	Wafer: fibre reinforced polyamide (PA6-60) Disc: PVDF with fibre reinforced polyamide (PA6-60)
<b>Sealing material</b>	EPDM, FKM
<b>Shaft material</b>	Stainless steel, 1.4104 (430 F), Other shaft material on request
<b>Installation length</b>	EN558 row 20, ISO 5752 row 20, API 609 table 2
<b>Flange standards</b>	ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
<b>Mounting flange</b>	EN ISO 5211
<b>Leak test</b>	ISO 9393-2, EN 12266 (leak rate A), ISO 5208 (Rate A)
<b>Approvals</b>	Multiple approvals available on request
<b>Actuation variants</b>	Manual: lockable hand lever or reduction gear with hand wheel Pneumatic: FC; FO; DA Electric: AC: 100, 230 V, AC/DC: 24 V, Smart Version

# Sustainably future-proof

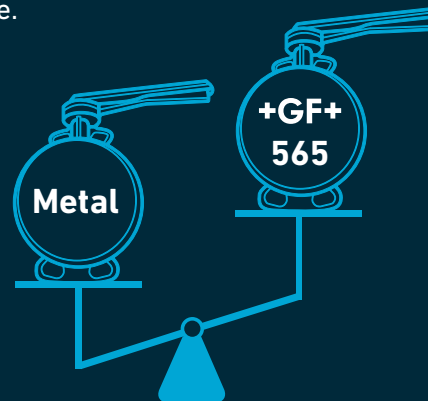
GF Piping Systems is making flow sustainable: Environmental regulations, water scarcity and an increasing demand of consumers and society for greener and more sustainable solutions are an important set of trends shaping customer behavior. The Butterfly Valve 565 is another important milestone in building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

600 metal valves can be exchanged on a cruise ship, saving 10 tons in weight.

# Superior material meets modular design

When something is built to last, it is all the more important that it can be flexibly adapted to changing requirements. For high-quality plastic materials optimized for durability, modular design is the perfect match. The standard interface also ensures that the Butterfly Valve 565 stays upgradeable during its long lifespan, fit for the ever-evolving future.



- 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



## Modular process automation

### Smart actuator for more efficiency in the work process

The smart actuator makes full use of the possibilities of digitization: Thanks to the app, you can access it at any time in order to read data or carry out settings, for example. This makes work easier and more efficient than ever before.

### Electric actuator for highest reliability and ease of use

Powered by an electric motor, electrical actuators are highly reliable and very easy to set up and operate. In addition, the latest generation of actuators offers many intelligent features. Modular accessories such as electric interfaces, integrated battery-powered fail-safe units and visual system feedback are also available.

### Pneumatic actuator for reliable operation

The pneumatic actuators are suitable for a wide range of environments and guarantee high levels of safety and reliability thanks to their fail-safe operation, robust design and high functionality, such as fast cycle times and adjustable travel. They are an economical, functional and reliable solution, especially for installations with a high number of actuated valves.

### Reduction gear with handwheel

The reduction gear with handwheel allows reliable, manual operation of the Butterfly Valve 565. Worm gears ensure that only minimal physical effort is required. They can fully open and close and are useful for high-stress situations.

### Monitoring by the double sensor

The optional LED position feedback allows the current position of the valve to be centrally recorded and checked at any time – for manually operated and automated valves. The compact dual sensor fits even in the most tight areas and is protected against ingress of water and dust.

### Information via Data-Matrix-Code

The Data-Matrix-Code simplifies the storage of all technical information for each individual valve and thus enables individual traceability. The faultless identification of each Butterfly Valve 565 facilitates easy installation, service and repair.

**Find out more**  
[www.gfps.com/565](http://www.gfps.com/565)

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