

A GF butterfly valve to suit every need

# Butterfly Valves





The Type 567 and Type 578 are our premium butterfly valves. With the double eccentric valve principle, variety of wetted materials, and a comprehensive actuation package, these are the most versatile plastic butterfly valves on the market.

## Type 567 and 578 Wafer and Lug Style Butterfly Valves

### Double Eccentric Operating Principle

Unlike most traditional valves, our valve does not use a thick rubber boot for the disc and flange seal. The 567/578 valve has an off-center disc and shaft that disengages the disc from the body during operation. Since the disc is not in contact with the disc seal when opening and closing, there is significantly less wear on the valve parts. Another result of the double-eccentric design is reduced torque. Over time, traditional boot-style valves have a tendency to become harder to operate,

which is troublesome for maintenance and operation personnel. The increased torque can also cause electric actuators to fail prematurely. Even when comparing new valves, our design requires approximately 50% less torque. When choosing your valve, rest assured you will find a material suitable for most applications. The wetted materials that include the body and disc are available in PVC, CPVC, PVDF, PP, and ABS. Standard seals are EPDM and FPM and others are available upon request.

**Applications**

- Commercial Aquariums
- Water Parks/Swimming Pools
- Semiconductor
- Chemical Processing
- Laboratories
- Water Treatment
- Food and Beverage
- Mining
- Cooling/Heating HVAC
- Land Fills



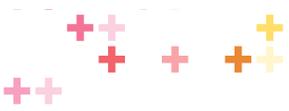
Standard Lug-type butterfly valve/end installation Type 578

Standard Wafer-type butterfly valve Type 567

Butterfly valve with fine adjustment

Butterfly valve with reduction gear

Butterfly valve with pneumatic actuator – single acting



## Product Information

Available sizes:	2" through 24" (567 wafer); 2" through 12" (578 lug)
Materials:	PVC, CPVC, PROGEF® PP, SYGEF® Standard PVDF, ABS
Manual Valves:	Available as a bare shaft, with lever handle, or with gear and hand wheel
Actuated Valves:	Electric: Available in either 100–230 V or 24 V AC/DC integrated manual override standard Pneumatic: Fail closed; fail open; double-acting
Options/Accessories:	Declutchable manual override; silicone free design; integrated position indicators for manual valves; fine adjustment handle

## Advantages

- 50% lower actuation torque compared to a boot style butterfly valve
- The non-wetted outer shell is a fully molded glass-filled PP, making it UV and chemically resistant, further protecting the piping system from the environment
- The 316 stainless steel shaft is truly non-wetted and has redundant o-rings that ride in precision bushing assembly providing the highest level of reliability
- Flange seal and disc seal are independent: overtightening of flanges have no effect on operational torque



Type 567 wafer style



Butterfly valve with pneumatic actuator – double acting; optional manual override

Butterfly valve with electric actuator; optional manual override and electric position indicator



Type 578 lug style

# Type 563 Wafer-style Aqua Butterfly Valve

Lightweight PVC butterfly valve specifically for water applications



Specifically for water applications, the Type 563 Aqua butterfly valve operates at pressures of up to 150 PSI and can handle temperatures from 32°F to 142°F. The wetted inner body is made of PVC with EPDM seals. Because of the plastic body, the Aqua valve is lightweight and installs easily between flanges. The Aqua valve is compatible with ANSI and DIN flanges and is

available from 2" to 12". The Q-ring seals allow the valve to be installed without additional gaskets.

The 563 valves are also available in pneumatic and electric actuated versions. The design and operating features allow extremely reduced operating torques, supporting the choice of compact, cost-effective actuators.





## Applications

For water use only

- Aquariums
- Water parks
- Drinking water
- Treated waste water
- Irrigation systems
- Water treatment
- Swimming pool construction
- Water distribution
- Process cooling water
- Reverse osmosis
- EDI

## Product Information

Available sizes:	2" through 12"
Materials:	PVC
Manual Valves:	Available as a bare shaft, with lever handle, or with gear and hand wheel
Actuated Valves:	Electric: Available in either 100–230 V or 24 V AC/DC integrated manual override standard Pneumatic: Fail closed; fail open; double-acting

## Standard Features

- Size: 2"–12"
- Body: Glass-filled Polypropylene compatible with ANSI and DIN flanges
- Wetted materials: PVC, EPDM
- Disc: PVC
- Stem: 304 Stainless Steel (non-wetted)
- Seal: EPDM
- Movement: Lockable lever moves in increments of 5° or available with gear operator
- Operating temperature: Maximum temperature 142°F

# VFA Wafer-style Butterfly Valve

Lightweight PVC butterfly valve specifically for water applications



The VFA butterfly valve is Georg Fischer's economic solution for medium and lower duty applications. The valve is made of durable PVC and its light weight is a good fit for systems already incorporating plastic pipe and fittings. The disc seal is separate from the flange seal, reducing torque requirements.

Primarily aimed at water applications, the valve is available in sizes 2½" to 8" and can handle 150 PSI (90 PSI for 8"). The VFA valves are available in pneumatic and electric actuated versions.





## Applications

- Water distribution
- Waste water
- Public and private swimming pools
- Aquariums
- Water parks
- Irrigation systems
- Process cooling water
- Reverse osmosis

Santoprene™ is a trademark of Exxon Mobil Corporation

## Product Information

Available sizes:	2½" through 8"
Materials:	PVC
Manual Valves:	With lever handle
Actuated Valves:	Electric: Available in either 100–230 V or 24 V AC/DC integrated manual override standard
	Pneumatic: Fail closed; fail open; double-acting

## Standard Features

- Size: 2½"–8"
- Body/disc: PVC
- Shaft: zinc plated steel, stainless steel (optional)
- Disc seal: EPDM
- Flange seal: Santoprene™
- Pressure: 150 psi (90 psi for 8")
- Movement: lockable hand lever with 10 increments, with lockout feature
- Flange connection: ANSI and ISO/DIN

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