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Our sales companies and representatives ensure local customer support in over 100 countries.

www.piping.georgfischer.com



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Adding Quality to People's Lives



More possibilities with the new butterfly valves

The innovative butterfly valves type 567 and 568 PVDF/PTFE seal

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BENEFITS

With the further development of the PTFE butterfly valves type 567/568, GF Piping Systems once again demonstrates its expertise in developing and implementing new, trendsetting products.



Process and operational reliability

The new 567/568 PTFE butterfly valves from GF Piping Systems now offer the maximum possible reliability for processes and operations as required by the chemical process industries. The modular design of the butterfly valves features the unique combination of PVDF (polyvinylidene fluoride) for all parts with media contact, the material being the same as the piping material, and an integrated PTFE passage seal (polytetrafluoroethylene).



Low permeability

With this innovative development the new PTFE butterfly valves, are able to guarantee very low permeability (the degree of penetration). The PTFE passage seal in combination with the FPM backing seal and the media-conveying parts made of PVDF ensure maximum safety when working with media that can diffuse through diverse materials.



Corrosion resistance and reliability

Due to the use of high-performance plastics, the new 567/568 PTFE butterfly valves exhibit excellent resistance to corrosion, especially when aggressive media are conducted. To guarantee maximum safety, we subject every butterfly valve to a 100% leak and function test before they leave our plant.



Chemical resistance and temperature resistance

The new butterfly valve's exceptional resistance to acids, salt solutions and hydrocarbons is realized through the integration of the PTFE profile seal in the passage. Additionally, the combination of PVDF/PTFE materials enables a temperature resistance from -20 °C to +120 °C.



Longer life

The butterfly valves type 567/568 are designed according to the double eccentric principle, in which the disc does not come into contact with the seal when in the open position, thus exhibiting less wear and tear. For our customers this means a longer service life for their butterfly valves and less maintenance as well.

FEATURES



SYSTEM OVERVIEW

The new 567/568 PTFE butterfly valves from GF Piping Systems are an ideal addition to the existing product range. Thanks to the new seal made of polytetrafluoroethylene (PTFE), they offer even greater chemical resistance and are suitable for conveying aggressive media.

Extensive range of products

The 567/568 PTFE butterfly valves are available as manually operated valves with a hand lever, with manual reduction gear or as pneumatically or electrically actuated models from DN 50 to DN 300. Lug and wafer types are available for end or intermediate installations respectively.

Modular products

The GF Piping Systems product range

is based on a modular concept, which means individual system components can be replaced at any time: fast, easy and effortlessly.

Integrated electric position indicator

This function enables continuous monitoring of the system, i.e. which valves are open or closed. The feedback concept includes a selection of five different types of limit switches.

Relevant standards

You have a choice of the following installation standards:

- metric: DIN, EN, ISO
- inch: BS, ASTM
- JIS (only wafer types)

So you always have the perfect solution for your application.

International norms

The 567/568 butterfly valves from GF Piping Systems comply with the following international norms:

DIN EN ISO 16136

Industrial valves – thermoplastic butterfly valves

ISO 9393

Thermoplastic valves – pressure tests and requirements

EN 558

Face-to-face length of the butterfly valves corresponds to EN558

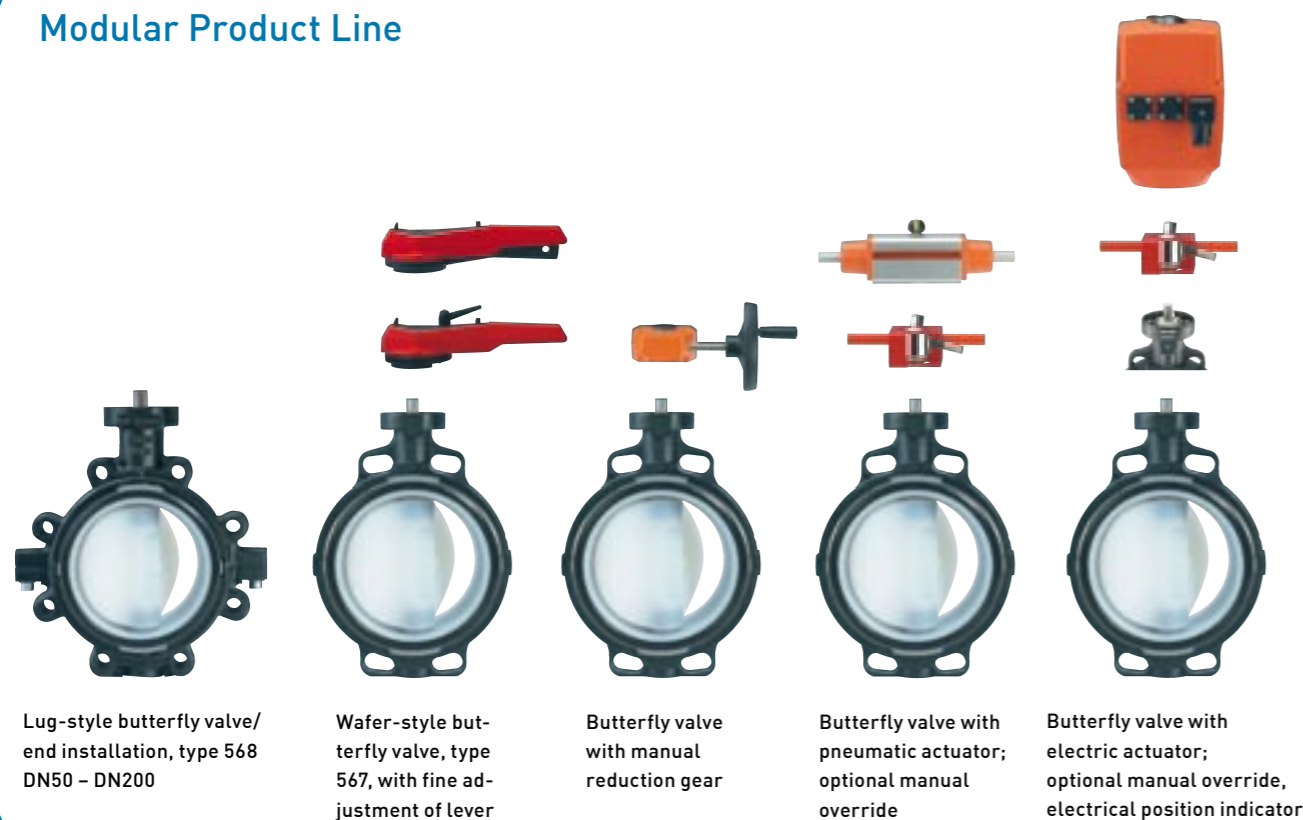
Approvals:

DIBt, ACS, TA Luft, KTW approval for drinking water

Approvals pending:

NSF61

Modular Product Line



Lug-style butterfly valve/
end installation, type 568
DN50 – DN200

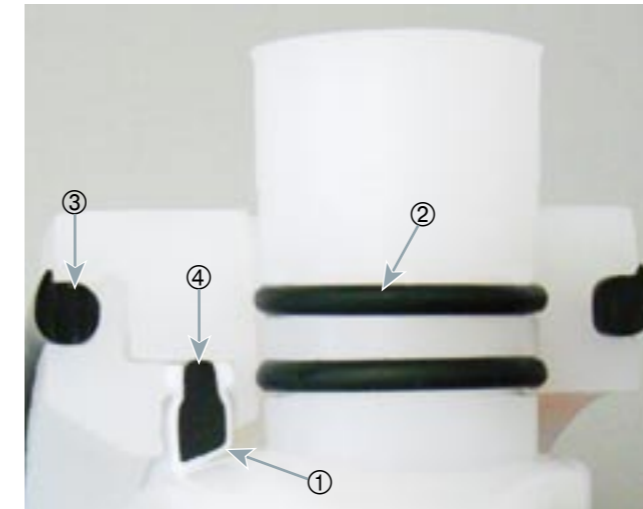
Wafer-style butterfly valve, type 567, with fine adjustment of lever

Butterfly valve with manual reduction gear

Butterfly valve with pneumatic actuator; optional manual override

Butterfly valve with electric actuator; optional manual override, electrical position indicator

DETAILS



PTFE sealing concept for applications in the chemical process industry

The Georg Fischer name has stood for reliability and longevity for over 200 years. Our products guarantee quality, functionality and innovation. GF Piping Systems once again sets new benchmarks in relation to reliability, cost-efficiency and service life with the new 567/568 PTFE butterfly valves.

Special features

By combining the two high-performance plastics (PVDF/PTFE), the new butterfly valves are now even more reliable in operation and in processes, and are therefore ideal for applications in the chemical process industry. A further benefit of the new valves is the reduced cost of maintenance and servicing.

Proven concept

The PTFE butterfly valves are based on the proven, double, two-sided sealing concept of the bearing bushes. The optimized design of the bearings guarantees no direct contact of the medium to the shaft and also clearly reduces the risk of

leakage to the outside. Our customers are therefore assured of high corrosion protection and absolute reliability.

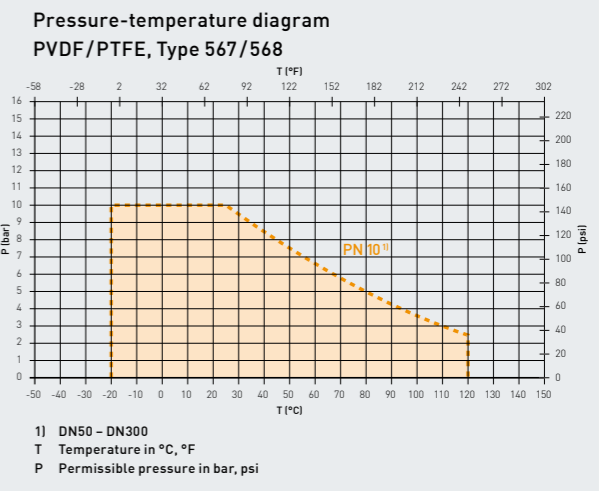
Always the right seal

When aggressive media are transported, the seal on a butterfly valve is a crucial aspect. That is why GF Piping Systems examined each sealing function separately and why each seal is designed specifically for its particular function. Essentially, three separate sealing elements are used:

- Seal in the passage ①: PTFE profile seal in the passage ensures maximum process reliability and is adapted to the double eccentricity.
- Seal to the outside ②: double internal shaft seal on both sides.
- Flange seal ③: special profile seal with broader contact face.

PTFE passage seal

The PTFE passage seal ensures together with the FPM backing seal ④ and the PVDF inner body the highest



degree of safety and resistance to media which could diffuse through diverse materials. The result is excellent chemical resistance and outstanding frictional properties.

Special components

The quality of a butterfly valve is determined by the quality of the individual components. Consequently, GF Piping Systems uses, for example, O-rings with integrated PTFE powder for the 567/568 butterfly valves. In this way, a higher operational reliability can be warranted for applications of the butterfly valves with degreasing media, thanks to the good dry-sliding properties of PTFE.

GF Piping Systems is always willing to accommodate special requirements, e.g. special shaft materials, on request. Contact us - we are always ready to help.