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**The big specialist for small quantities – GEMÜ 567 BioStar****control**

**The GEMÜ 567 BioStar control valve is the new, safe solution for media controls from 0.08 to 4.1 m³/h.**

The sealing takes place via a PTFE diaphragm with PD technology (plug diaphragm), which combines the advantages of a diaphragm valve with those of a globe valve. This valve is available with linear control characteristics and with equal-percentage control characteristics.

Aseptic diaphragm valves are frequently used as control valves for sterile applications. This means that small volumes can only be controlled with an inadequate level of accuracy, or not at all. The new 2/2-way diaphragm globe valve with regulating needle or regulating cone fills these gaps. The actuator is sealed by an FDA-compliant and USP Class VI compliant PTFE diaphragm. In combination with a spring washer, this ensures that the seal is permanently temperature-resistant, meaning that the diaphragm need not be re-tightened. In comparison with bellows valves, cleaning the valve is significantly improved by the hygienic construction.

Further special features include the optional integration of a bypass function and the potential installation of the diaphragm globe valve in a multi-port valve block (GEMÜ M-block). In the bypass version, the angle valve body can be designed with a manually operated bypass or with a pneumatically operated bypass. Both versions allow for easier cleaning and greater flows.

If the GEMÜ 567 BioStar control is integrated into an M-block, several functions can be implemented in the smallest of spaces. In addition, the space requirement is reduced considerably, and the installation and welding effort are reduced.

The valve is also optimally equipped when it comes to hygienic safety: It meets both the standards of the EHEDG cleaning test and the standards in accordance with the American 3A definition.

The control valve is used, for example, for dosing small quantities in the beverage industry for in-line mixers (for example, for vitamins, dyes and other additives), for controlling sterile steam and air (for example, for DIP processes) or for controlling the inflow and outflow of bioreactors in the pharmaceutical industry

The GEMÜ 567 BioStar control is available in the nominal sizes DN 8 to DN 20. The body is manufactured, as standard, from block material with a grade of surface finish of Ra 0.4 µm. In addition to the PTFE diaphragm, another seal made from FKM is used. One exception here is the 3A version, for which the complete sealing and control element consists of one piece or material (PTFE).

**Background information**

GEMÜ is one of the world's leading manufacturers of valves, measurement and control systems. Over the course of more than 50 years, this globally focused, independent family owned enterprise has established itself in important industrial sectors thanks to its innovative products and customised solutions for process media control. GEMÜ is the world market leader for sterile valve applications in the pharmaceutical and biotechnology industries.

Today, the GEMÜ Group employs over 900 employees in Germany and more than 1600 worldwide. Manufacturing is carried out at six manufacturing sites in Germany, Switzerland, China, Brazil, France and the USA. From Germany we coordinate global marketing with 27 subsidiaries and with a large distributor network in more than 50 countries, the GEMÜ Group is active on all five continents. GEMÜ will continue to establish itself in future markets with its international growth strategy.

A broad based modular system and adapted automation components mean that individualised standard products and customised solutions can be combined to make over 400,000 product versions.

Further information can be found at [www.gemu-group.com](http://www.gemu-group.com).