

e-Diastar

Simply automate without compressed air

Electric diaphragm valve



Short downtimes thanks to fast and easy installation or retrofitting of manual diaphragm valves and lower maintenance costs.

For short downtimes and lower maintenance costs

The growing demand for plant automation means that even valves which are isolated or not accessible for a compressed air system have to be automated. The electric diaphragm valve e-Diastar reduces time-consuming manual operations within the plant. Easy and fast retrofitting of hand operated valves is possible without disassembly. Thanks to its all-plastic design, it is durable and needs little maintenance, it ensures short downtimes and lower maintenance costs during installation and reduces maintenance costs even with aggressive and abrasive media.



Manual override

- Via attached handle

Housing

- Highly chemical resistant PPGF
- Low weight
- Compact design

Valve position:

- Always independent of the line pressure

Notch

- Visible indication of diaphragm material

Feedback LED

- Valve position
- System status

Versatile interfaces

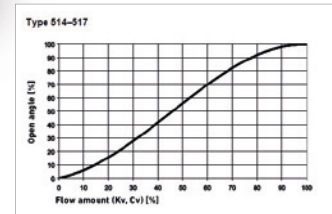
- Open/middle/closed
- Modulation: 4 to 20 mA
- Profibus / Modbus RTU
- Relay: mechanical position feedback

Compact diaphragm valve

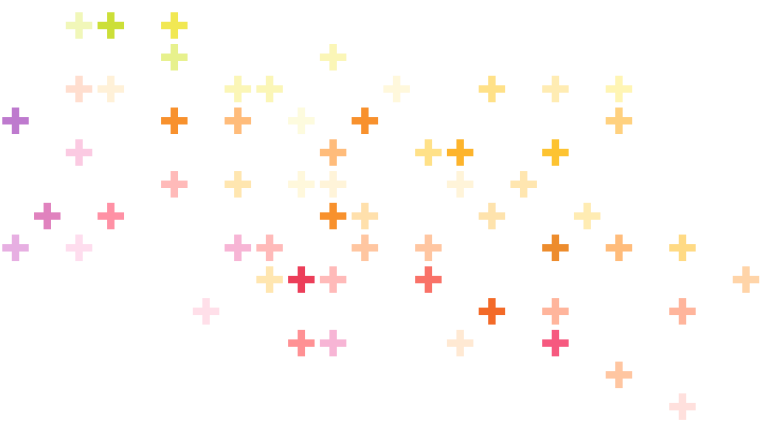
- Types 514, 515, Retrofitting of the existing type 517 possible
- DN 25, 50



Optimized flow thanks to innovative design



Linear flow characteristic



+ Automate without compressed air

The electric diaphragm valve e-Diastar allows quick and simple automation of plants that do not contain a compressed air system or in which it could not be installed with reasonable effort. Existing manual diaphragm valves can be retrofitted easily without disassembly.

+ 100 % reliable

The valve is based on the successful manual diaphragm valve from GF Piping Systems, which has been an established standard for aggressive and abrasive media for the past ten years in more than 100 countries. Thanks to the all-plastic design, it is less maintenance-intensive than conventional models.

+ Fast, simple installation

The valve and housing are significantly lighter than solutions with metal actuators placed on the valve and thus require no additional supports and static adjustments. The actuator can be retrofitted on existing diaphragm valves from GF Piping Systems without any additional expenditure.

+ Easy system integration

Profibus and Modbus allow easy and fast integration into the process control system. Analogue interfaces are available as an alternative. An integrated reset unit in case of a power failure and a positioner for continuous control are available as accessories.

+ 100 % self-cleaning

Thanks to its design and high-precision production, the electric diaphragm valve has no dead spaces but always rinses itself. Thus, it always remains free of debris and ensures a constant and reliable process even with high-particle media.

Typical applications

- Chemical and other industries
- Natural resources
- Power generation
- Drinking water treatment
- Treatment of waste water



Technical properties

The components of the electric diaphragm valve e-Diastar are perfectly synchronized with each other.

Electric Actuator EA45-MT

- **Harmonized torque** – ensures long service life of the diaphragm
- **LED** – displaying of information for the valve position and system status.
- **Gear** – ensures that any changes to the line pressure do not affect the valve position
- **Accessories** – Profibus and Modbus interfaces, integrated battery pack

Installation set

- **Glass fiber reinforced PP-plastic** – robust and corrosion-free for stability and long service life
- **Notch** – for visual inspection of the diaphragm

Diaphragm valves 514, 515 or 517

- **All-plastic design** – high chemical resistance, no corrosion, less maintenance effort
- **Optimized flow geometry** – improved flow with the same power consumption, linear flow properties for stable processes
- **Fully tested** – for maximum reliability, 100 % of the valves are tested for tightness before delivery

More information at
www.gfps.com/e-diastar

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