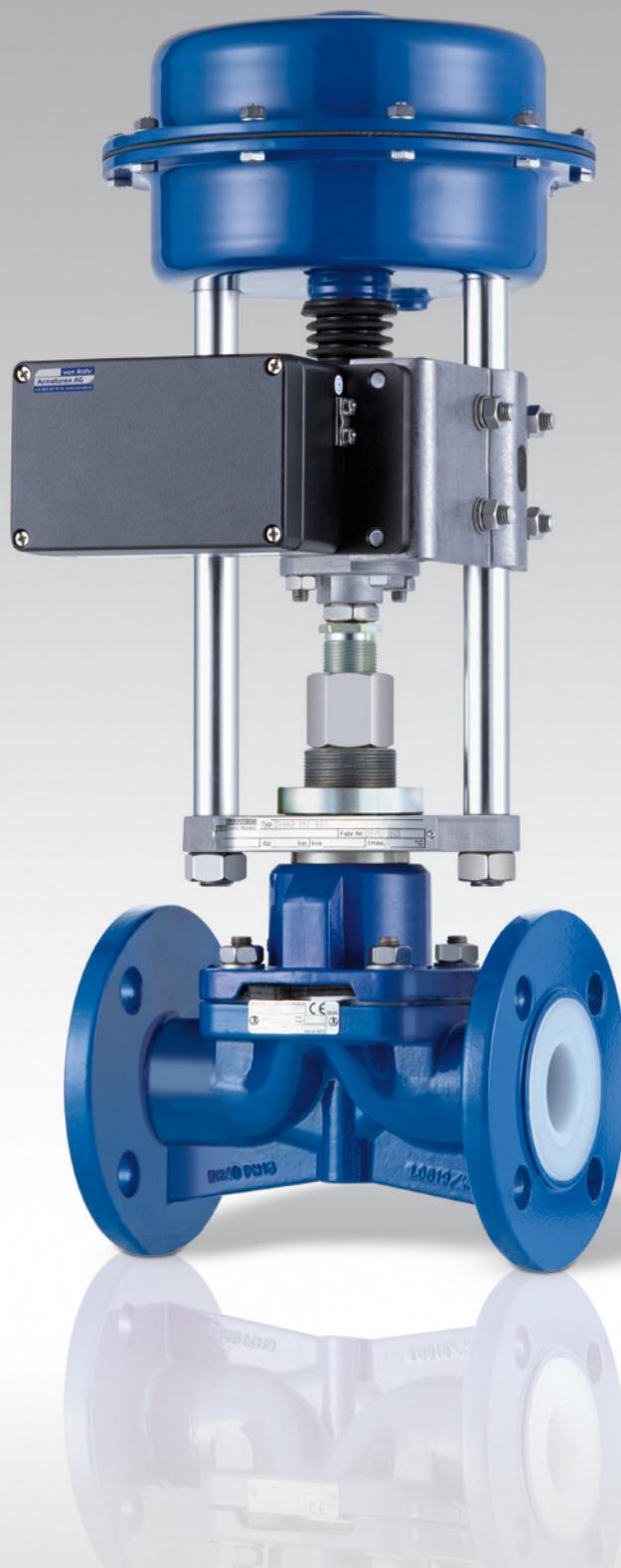
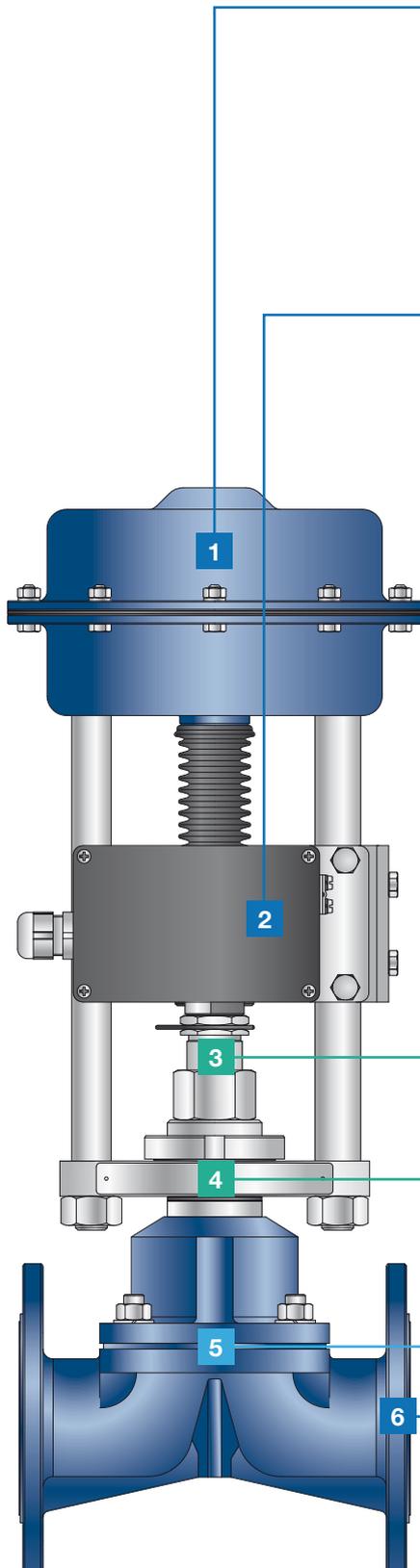


Series MV401



Every component precisely matched



Powerful valve actuator

Most commonly used is the pneumatic multi-spring actuator series MA as shown here. It is robust, ex-proof, features low actuating times, provides a constant seating force and is cost effective. Different sizes, strokes and materials can be manufactured according to your requirements. von Rohr control valves are optional also available with electric actuators. For more details, see the von Rohr brochures MA actuators or SHE actuators.

Signal box type 827S

For signalling intermediate or limit positions the signal box 827S can be employed. It is mounted on the actuator pillars according to NAMUR and reads off the stroke level. Up to three inductive proximity switches are activated by adjustable switching disks and thus indicate the current position of the valve.

Cotter pin and stroke limitation

The cotter pin relieves the diaphragm before commissioning. The mechanical stroke limitation protects against high closing forces and extends the lifetime of the diaphragm.

Stem guiding

The compression plug is exactly guided by the spindle. The wiper ring protects against dirt effects. The diaphragm valve is designed so that no packing is required.

Diaphragm

In the heart of the valve works a diaphragm, which is specially designed for the prevailing flow conditions in your plant. It protects the internal parts from corrosion and hermetically seals the bonnet. The diaphragm is available in EPDM, PTFE-EPDM and PTFE-FPM (Viton). The bayonet lock allows for an easy exchange service of diaphragm. We ensure that you will not have to worry about the tightness. Stem surface, slide bush and design are finely matched so that neither friction, corrosion nor emission limit values will cause you any issues. The valve design is also TA-Luft (Clean Air Act) compliant.

Body and lining

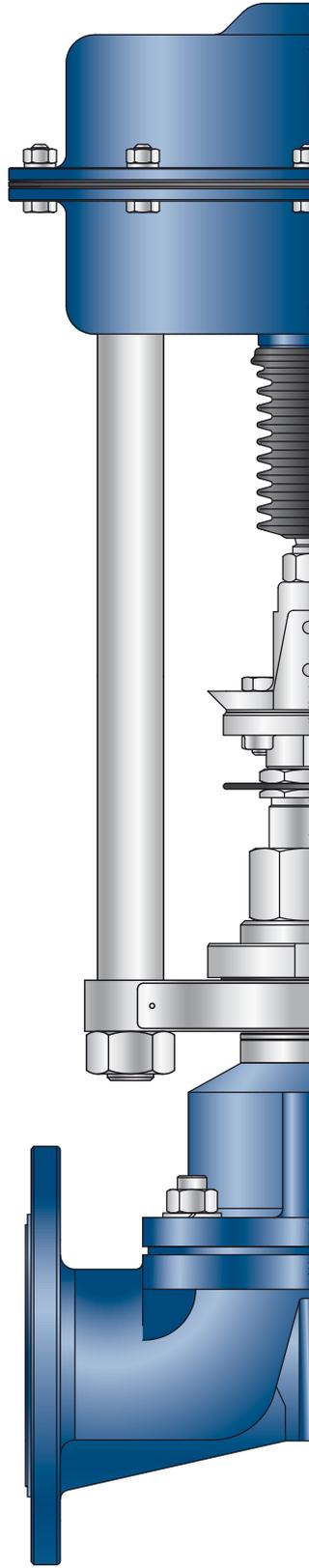
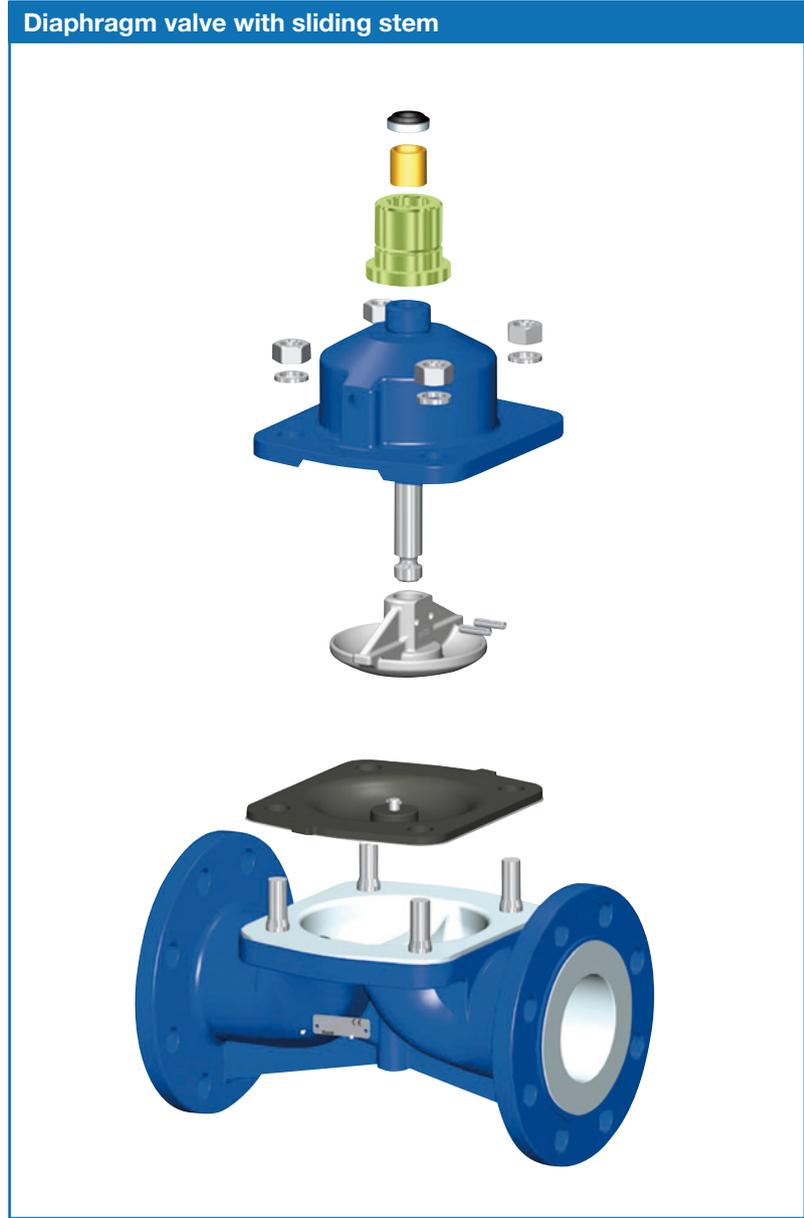
The one-piece body is available in cast steel with coating in RAL 5005 or stainless steel. The inner PFA-lining protects against corrosive, hazardous and slightly solids-containing media.

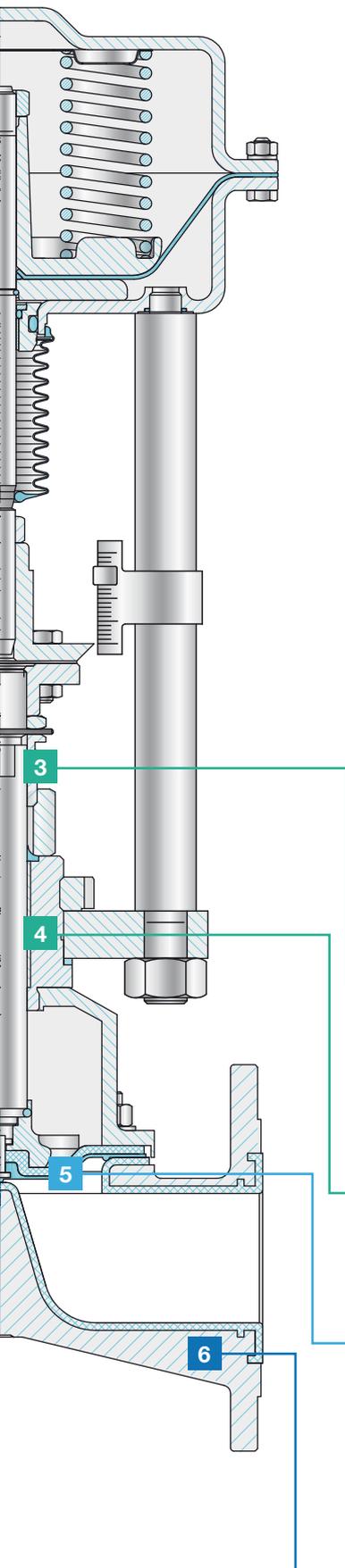
Valve design

In order to fulfill its function properly within an installation, the valve has to be designed to the particular operating conditions such as flow rate, operating pressure difference, tightness and noise requirements. This is realised thanks to the numerous combinations that the modular design allows.

Diaphragm

The type of the diaphragm is dependent on both, the medium as well as on the operating conditions such as temperature and pressure. It also, however, has decisive influence on the operational safety, the maintenance and, last not least, on the availability of the valve.





Manual diaphragm valve

- The diaphragm valve is also available as a manual shutoff valve



Cotter pin and stroke limitation

- The cotter pin relieves the diaphragm before commissioning
- The mechanical stroke limitation protects against high closing forces and extends the lifetime of the diaphragm

Inner parts and stem guiding

- Made of stainless steel
- Stem guiding – no wear of packing

Diaphragm

- The bayonet lock allows for easy replacement
- Protects internal parts from corrosion
- Diaphragm materials
 - EPDM (without protective foil)
 - With protective foil PTFE-EPDM or PTFE-FPM (Viton)

Body

- Cast steel 1.0619 with coating in RAL 5005
- Stainless steel 1.4408 (as an option)

Inner lining

For the use of corrosive, hazardous and slightly solids-containing media

- PFA (comes as standard)
- PFA-AS electrically conductive (as an option)

Series MV401

Standard version with limit switches



Features	Advantages
Body designed to meet flow path criteria	<ul style="list-style-type: none">● Less wear● Less maintenance● Less pressure loss
Lined body	<ul style="list-style-type: none">● Control of corrosive, hazardous and/or slightly solids-containing media
Highly accurate stem guiding	<ul style="list-style-type: none">● Precise guiding of compression plug● Wiper ring protects against dirt effects● No wear of packing
Cotter pin to relieve the diaphragm before commissioning	<ul style="list-style-type: none">● Diaphragm without load until commissioning
Stroke limitation	<ul style="list-style-type: none">● Extends lifetime of the diaphragm
Inner parts separated by diaphragm	<ul style="list-style-type: none">● No corrosion
Easy interchangeability of components	<ul style="list-style-type: none">● Low operating expenses
Optionally available with manual, pneumatic- or electric actuator	<ul style="list-style-type: none">● Wide range of choice
Pillars comply with NAMUR	<ul style="list-style-type: none">● Simple mounting of positioners, limit switches etc.

Series MV401

General data	
Series	MV401
Nominal bore DN/NPS	15 to 200 / ½" to 8"
Nominal pressure PN/ANSI	10/16 / class 150
Characteristics	On/Off
Plug guide	stem guided
Leakage rate	according to EN 12266-1, leakage rate class A
Flanges	according to DIN EN 1092-1, ANSI B16.5
Diaphragm	standard PTFE-EPDM, (as an option) PTFE-FPM (Viton) or EPDM
Range of application	-30°C to 150°C operating pressure (depend on lining material) 13 mbar to 16 bar

Materials				
Body material	EN	for temperatures	ASTM	for temperatures
	1.0619 GP240GH		-30° C to 150° C	WCB
1.4408 GX5CrNiMo19-11-2		-30° C to 150° C	CF-8M	-30° C to 150° C
Lining	standard: PFA optional: PFA-AS (electrically conductive)			