

Series MA-Actuator



Every component precisely matched

Powerful valve actuator

Our multi-spring actuators are used to convert a pressure into a linear motion. They are used as actuators for On/Off, control valves, for the control of the variable diffuser outlet blades on fans, for desuperheaters with stroke motion and many other applications. The actuators generate significant actuating forces with short positioning times and meet the requirements for explosion protection without additional effort. Different sizes, strokes and materials can be manufactured according to your requirements.

Coupling and spindle

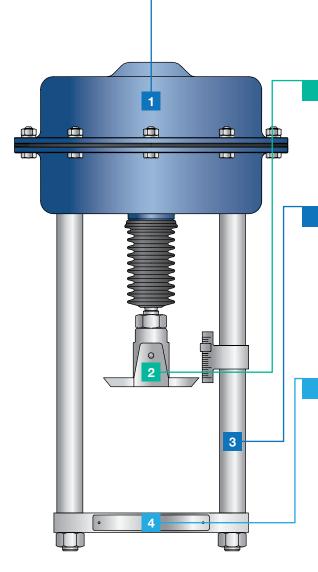
The coupling connects the actuator stem to the valve spindle. Optionally we customize the right connection for you.

Pillars

The pillar construction allows easy NAMUR mounting of positioners and limit switches. Pillar material, length and space can be adapted on request. Optionally, with "Po actuators" the air flow from the positioner to the actuator can be made through one of the pillars (integrated mounting S100).

Traverse

The traverse is the connecting piece between actuator and valve.

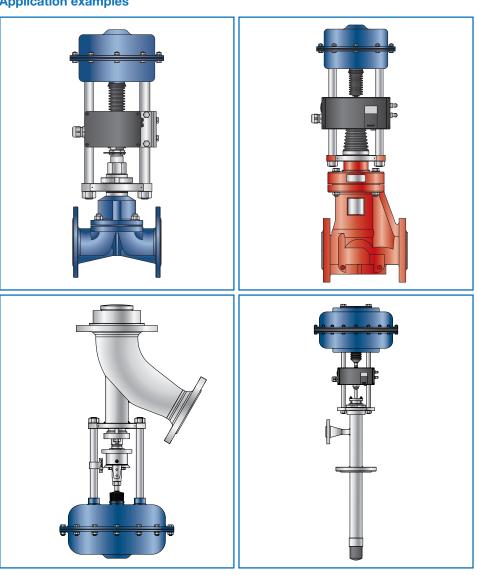


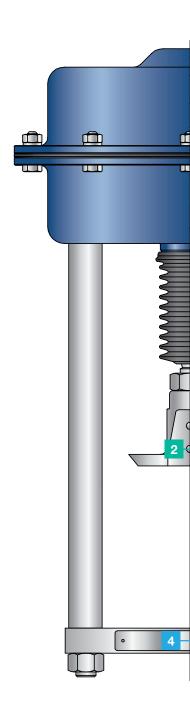
Applications

- Valves (glass valves, cryovalves, bottom outlet valves, etc.)
- Desuperheaters with stroke motion
- Adjustment of diffuser outlet fan blades
- Stroke adjustment at venturi plug
- Steam jet compressor



Application examples

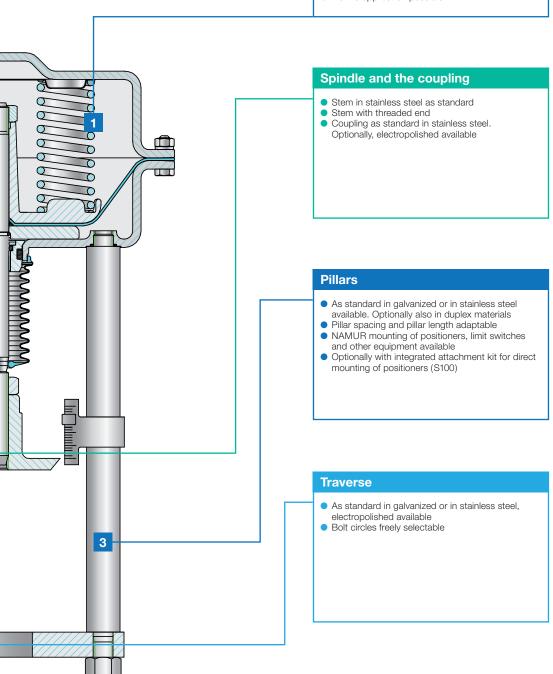






Powerful actuator

- Actuator shells as standard coated steel.
 Optionally available in stainless steel or stainless steel electropolished
- Depressurized stem extended/retracted or without spring return
- Optional: mediumcontrolled execution
- Reinforced diaphragm for heavy use available
- Low-temperature diaphragm available
- Number and type of springs are variableMarine application possible



Series MA-Actuator

and larger strokes

Double-diaphragm actuator DMA1.21 Double-diaphragm actuator DMA1.41 Tandem-diaphragm actuator TMA1.41 Higher actuating forces Higher actuating forces Higher actuating forces Higher actuating forces

at the same strokes

and larger strokes

Features	Advantages		
Industrial design	 Also suitable for harsh operating 		
Highly accurate stem guiding	Low wearLong service life		
Easy interchangeability of components	 Low operating expenses 		
Modular Design	 Various combinations 5 actuator sizes 120 different spring combinations Many strokes realizable Completely or partially in stainless steel 		
Pillar comply with NAMUR	 Easy mounting of positioners and other equipment Easily adaptable to all type of valves and other applications with variable pillar lengths 		
Spring extends stem (Po) Spring retracts stem (Ps) Double acting (Pos) - Stroke limits - Manual override - Hydraulic damping - Self-regulating execution	 Ideal adaptation to your operating conditions 		

Series MA-Actuator

General data						
Series	MA16	MA21	MA31	MA41	MA60	
Max. stroke	16 mm	35 mm	59 mm	118 mm	136 mm	
Diaphragm surface	85 to 110 cm ²	150 to 240 cm ²	355 to 550 cm ²	600 to 1135 cm ²	1500 to 2185 cm ²	
Max. number of springs	7	7	7	14	16	
Max. force by springs	2.6 kN	4.3 kN	8.4 kN	25.2 kN	45 kN	
Max. force by air	4.6 kN	8.5 kN	22.4 kN	40.5 kN	87 kN	
Max. positioning signal	6 bar	6 bar	6 bar	6 bar	6 bar	
Operating temperature	-20 to +80°C (optionally -40 to +80°C)					
Spring chamber	optionally with air scavenging					