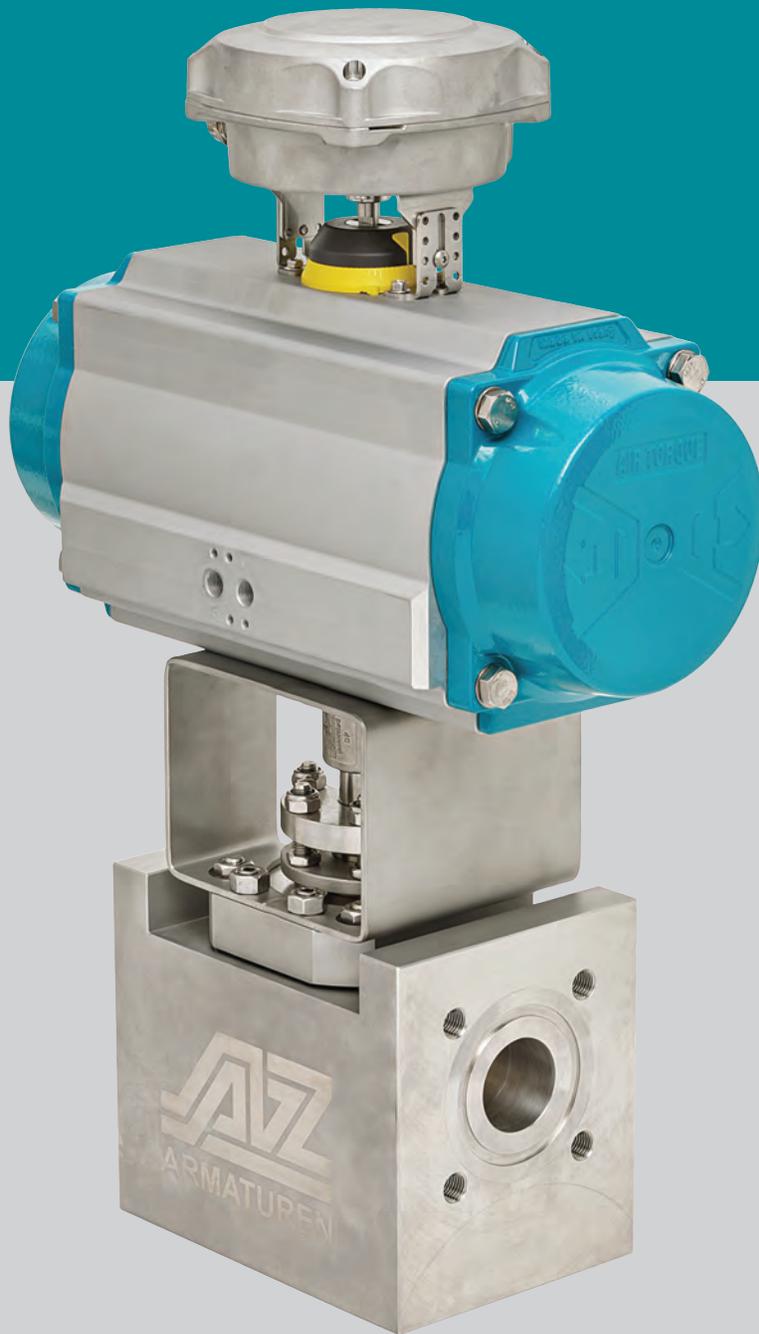


# Pneumatic actuators



- compact design
- single and double acting

Range of application:  
 $14 < T < 302^{\circ}\text{F}$   
others on request

## Design characteristics

- mounting-flange for actuators acc. to ISO 5211
- patented cardanic AZ coupling
- plug adjustment freely accessible
- multi position actuators

## Options

- declutchable gear box
- locking devices
- flange extension
- ratchet coupling
- endposition damping
- Accessories
- ATEX design
- other materials
- on-site operation

# Pneumatic actuators

## Rack-and-Pinion design

Type	Description	Turning range	Safety position
single acting <ul style="list-style-type: none"> <li>● operation: pneumatic</li> <li>● return: spring acting</li> </ul>	in case of air failure, valve switches to its safety position (spring return actuator)	$0^{\circ} \rightarrow 90^{\circ}$ $0^{\circ} \rightarrow 120^{\circ}$ $0^{\circ} \rightarrow 180^{\circ}$	$0^{\circ} / 90^{\circ} / 180^{\circ}$ (optional)
double acting <ul style="list-style-type: none"> <li>● operation: pneumatic</li> <li>● return: pneumatic</li> </ul>	for standard applications, safety position not possible, valve remains in position	$0^{\circ} \leftrightarrow 90^{\circ}$ $0^{\circ} \leftrightarrow 120^{\circ}$ $0^{\circ} \leftrightarrow 180^{\circ}$	not applicable
double acting with reserve air vessel <ul style="list-style-type: none"> <li>● operations: pneumatic</li> <li>● return: pneumatic</li> </ul>	in case of air failure, valve can be operated one or several times	$0^{\circ} \rightarrow 90^{\circ}$ $0^{\circ} \rightarrow 120^{\circ}$ $0^{\circ} \rightarrow 180^{\circ}$	$0^{\circ} / 90^{\circ} / 180^{\circ}$ (optional)
3-position actuator for 3-way valves <ul style="list-style-type: none"> <li>● operation: pneumatic (all)</li> <li>● endposition damping</li> </ul>	Please note: When installing an AZ ratchet coupling, multi-way valves can be used with standard quarter turn actuators for many solutions without complicated actuator technology	$0^{\circ} \rightarrow 90^{\circ} \rightarrow 180^{\circ}$ $0^{\circ} \rightarrow 120^{\circ} \rightarrow 240^{\circ}$	not applicable
3-position actuator with spring centered middle position <ul style="list-style-type: none"> <li>● operation: pneumatic</li> <li>● return: spring acting</li> </ul>	in case of air failure, valve returns to its middle position	$0^{\circ} \rightarrow 90^{\circ}$ $0^{\circ} \rightarrow 120^{\circ}$ $0^{\circ} \rightarrow 180^{\circ}$	$45^{\circ} / 60^{\circ} / 90^{\circ}$ (optional)



**Pneumatic actuator with 180° turning range, for 3-position valves**