

Technical data sheet

Globe valve actuator for 2-way and 3-way globe valves

- Actuating force 500 N
- Nominal voltage AC/DC 24 V
- Control Open/close, 3-point
- Stroke 15 mm



Technical data

Electrical data	Nominal voltage	AC/DC 24 V		
	Nominal voltage frequency	50/60 Hz		
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V		
	Power consumption in operation	1 W		
	Power consumption in rest position	0.5 W		
	Power consumption for wire sizing	1 VA		
	Connection supply / control	Terminals with cable 1 m, 3x 0.75 mm ² (Terminal 4 mm ²)		
	Parallel operation	Yes (note the performance data)		
Functional data	Actuating force motor	500 N		
	Manual override	with push-button, can be locked		
	Stroke	15 mm		
	Running time motor	150 s / 15 mm		
	Sound power level, motor	45 dB(A)		
	Position indication	Mechanical, 515 mm stroke		
Safety data	Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)		
	Power source UL	Class 2 Supply		
	Degree of protection IEC/EN	IP54		
	Degree of protection NEMA/UL	NEMA 2		
	Enclosure	UL Enclosure Type 2		
	EMC	CE according to 2014/30/EU		
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14		
	UL Approval	cULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1		
		The UL marking on the actuator depends on the production site, the device is UL-compliant in any case		
	Type of action	Type 1		
	Rated impulse voltage supply / control	0.8 kV		
	Pollution degree	3		
	Ambient humidity	Max. 95% RH, non-condensing		
	Ambient temperature	050°C [32122°F]		
	Storage temperature	-4080°C [-40176°F]		
	Servicing	maintenance-free		
Weight	Weight	1.1 kg		



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Safety notes

•	This device has been designed for use in stationary heating, ventilation and air-conditioning
	systems and must not be used outside the specified field of application, especially in aircraft
7	or in any other airborne means of transport.

- Outdoor application: only possible in case that no (sea) water, snow, ice, insolation or aggressive gases interfere directly with the device and that it is ensured that the ambient conditions remain within the thresholds according to the data sheet at any time.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with during installation.
- The switch for changing the direction of motion and so the closing point may be adjusted only by authorised specialists. The direction of motion is critical, particularly in connection with frost protection circuits.
- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

Simple direct mounting on the globe valve by means of form-fit hollow clamping jaws. The actuator can be rotated by 360° on the valve neck.
Manual override with push-button possible (the gear train is disengaged for as long as the button is pressed or remains locked).
The stroke can be adjusted by using a hexagon socket screw key (4 mm), which is inserted into the top of the actuator. The stroke shaft extends when the key is rotated clockwise.
The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.
Factory setting: Actuator stem is retracted.
When valve-actuator combinations are shipped, the direction of motion is set in accordance with the closing point of the valve.
When actuated, the direction-of-stroke switch changes the direction of motion in normal operation.

Accessories

Electrical accessories	Description	Туре	
	Auxiliary switch 2x SPDT add-on	S2A-H	
	Stem heater for LV, NV, SV actuator, AC/DC 24 V, 30 W	ZH24-1-A	

Electrical installation



Supply from isolating transformer.

Parallel connection of other actuators possible. Observe the performance data. Direction of stroke switch factory setting: Actuator stem retracted (**A**).

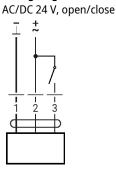
Wire colours:

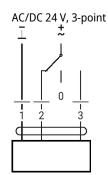
- 1 = black 2 = red
- 3 = white



Electrical installation

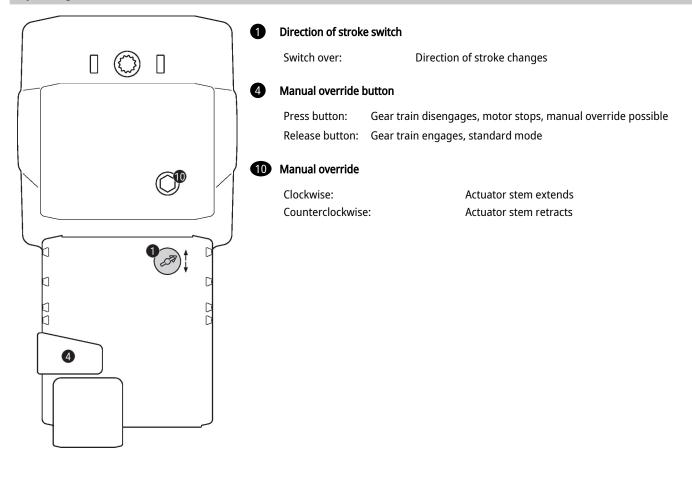
Wiring diagrams





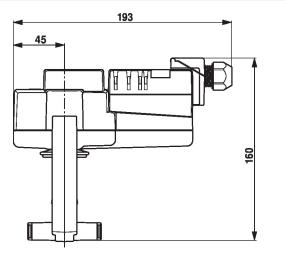
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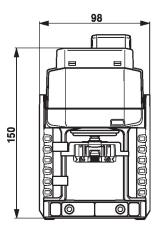
Operating controls and indicators





Dimensions





Further documentation

- The complete product range for water applications
- Data sheets for globe valves
- Installation instructions for actuators and/or globe valves
- Notes for project planning 2-way and 3-way globe valves
- General notes for project planning