

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

- Actuating force 500 N
- Nominal voltage AC/DC 24 V
- Control modulating 2...10 V
- 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	2 VA
	Connection supply / control	Terminals with cable 1 m, 4 x 0.75 mm ² (Terminal 4 mm ²)
	Parallel operation	Yes (note the performance data)
Functional data	Actuating force motor	500 N
	Operating range Y	210 V
	Input Impedance	100 kΩ
	Position feedback U	210 V
	Position feedback U note	Max. 0.5 mA
	Position accuracy	±5%
	Manual override	with push-button, can be locked
	Stroke	15 mm
	Running time motor	150 s / 15 mm
	Adaptation setting range	manual (automatic on first power-up)
	Sound power level, motor	45 dB(A)
	Position indication	Mechanically, 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
	Certification UL	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
	Mode of operation	Туре 1
	Rated impulse voltage supply / control	0.8 kV
	Pollution degree	3
	Ambient temperature	050°C
	Storage temperature	-4080°C
	Ambient humidity	Max. 95% RH, non-condensing



Technical data sheet

LV24A-SR-TP

Safety data Servicing

Weight

maintenance-free

1.1 kg

Weight

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Safety notes
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- 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 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 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

Mode of operation The actuator is connected with a standard modulating signal of 010 V and drives to the position defined by the position 0.5100% and as slave control signal for other actuators. Simple direct mounting 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 Manual override with push-button possible (the gear 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. High functional reliability The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached. Combination valve/actuator Refer to the valve documentation for suitable valves, their permitted fluid temperatures and close-off pressures. Position indication The stroke is indicated mechanically on the bracket with tabs. The stroke range adjusts itself automatically during operation. Home position Factory setting: Actuator spindle is retracted. When valve-actuator combinations are shipped, the direction of motion is set in accordance with the closing point of the valve. The first time the supply voltage is switched on, i.e. at the time of commissioning, the actuator carries out an adaption, which is when the operating range and position feedback adjust themselves to the mechanical setting range. The actuator then moves into the position defined by the positioning signal. Adaptation and synchronisa		
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Accessories	Setting direction of stroke	When actuated, the stroke direction switch changes the running direction in normal operation.
	Accessories	

Electrical accessories

Description

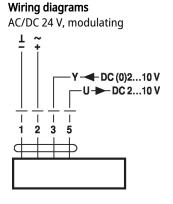
Туре

S2A-H





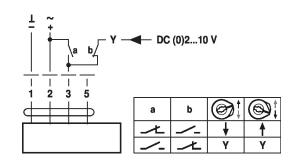
Supply from isolating transformer.



Cable colours: 1 = black 2 = red 3 = white

3 = white 5 = orange Override control (frost protection circuit)

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



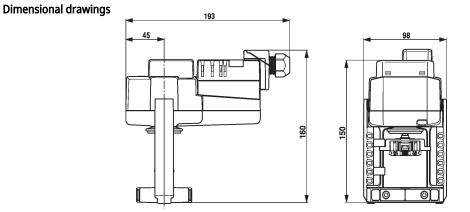
Operating controls and indicators

0	Direction of stroke s Switch over:	witch Direction of stroke changes
	Push-button and LEI Off: On: Press button:	D display yellow Standard mode Adaptation process active Triggers stroke adaptation, followed by standard mode
•		t button Gear disengages, motor stops, manual override possible Gear engages, synchronisation starts, followed by standard mode
	Manual override Clockwise: Counterclockwise:	Actuator spindle extends Actuator spindle retracts
Adaption -> 3		



Dimensions

Dimension



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