

3-way globe valves Actuating force 2500 N

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Globe valve actuator for 2-way and

Nominal voltage AC/DC 24 V

Control Open-close, 3-point Nominal stroke 50 mm

**Technical data sheet** 





# **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	2 W
	Power consumption in rest position	0.5 W
	Power consumption for wire sizing	4.5 VA
	Connection supply / control	Terminals 4 mm <sup>2</sup> (cable Ø 410 mm)
	Parallel operation	Yes (note the performance data)
Functional data	Actuating force motor	2500 N
	Manual override	With push-button, can be locked
	Nominal stroke	50 mm
	Actuating time motor	150 s / 40 mm (188 s / 50 mm)
	Sound power level motor	56 dB(A)
	Position indication	Mechanically, 550 mm stroke
Safety	Protection class IEC/EN	III Safety extra-low voltage
	Protection class UL	UL Class 2 Supply
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2, 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 UL 60730-1A, UL 60730-2-
		14 and CAN/CSA E60730-1:02
	Mode of operation	Туре 1
	Rated impulse voltage supply / control	0.8 kV
	Control pollution degree	3
	Ambient temperature range	050°C
	Non-operating temperature	-4080°C
	Ambient humidity	95% r.h., non-condensing
	Maintenance	Maintenance-free
Weight	Weight	7.4 kg

### 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 or in any other airborne means of transport.

- 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.

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Product features				
Installation on third-party valves	The retrofit actuators for installation on a wide range of valves from various manufacturers are comprised of an actuator, universal valve neck adapter and universal valve stem adapter. Adapt the valve neck and valve stem to begin with, then attach the retrofit actuator to the valve neck adapter, connect to the valve and start up. The valve neck adapter/actuator can be rotated through 360° on the valve neck, provided it is permitted by the size of the installed valve.			
Installation on Belimo valves	Use standard actuators from Belimo for mounting on Belimo globe valves. The installation of retrofit actuators on Belimo globe valves is technically possible.			
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 (5 mm), which is inserted into the top of the actuator. The stroke spindle 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.			
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.			
Direction of stroke switch	When actuated, the direction of stroke switch changes the running direction in normal operation.			
Restriction 3-point controller	Steps must be taken to ensure that the pulsating 3-point controller stops when the end position is reached. If this is not possible on the system side, the multifunctional version of the actuator (MP) must be used.			
Accessories				

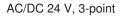
	Description	Туре
Electrical accessories	Auxiliary switch, 2 x SPDT, add-on, grey	S2A-H

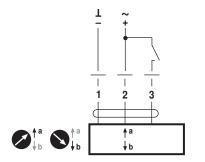
# **Electrical installation**

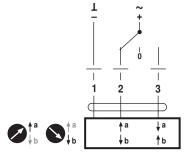
Notes	<ul> <li>Connection via safety isolating transformer.</li> <li>Parallel connection of other actuators possible. Observe the performance data.</li> <li>Direction of stroke switch factory setting: Actuator spindle retracted.</li> </ul>
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# Wiring diagrams

AC/DC 24 V, open-close (one-wire)



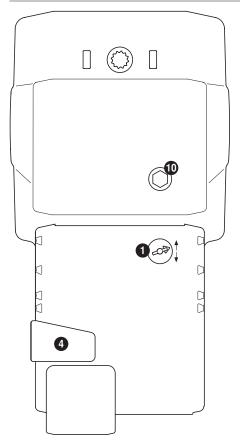




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# **Operating controls and indicators**



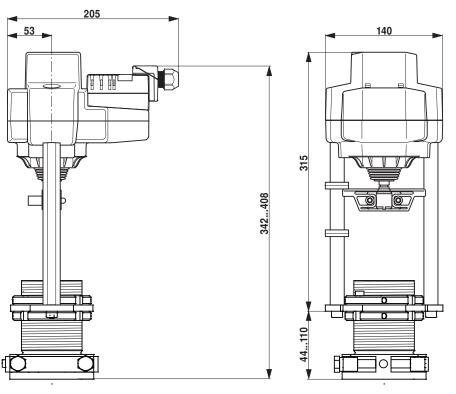
- **1** Direction of stroke switch
  - Switch over: Direction of stroke changes
- 4 Gear disengagement button
  - Press button: Gear disengages, motor stops, manual override possible
  - Release button: Gear engages, followed by standard mode

### Manual override

Clockwise: Actuator spindle extends Counterclockwise: Actuator spindle retracts

# **Dimensions** [mm]

### **Dimensional drawings**



### **Further documentation**

Installation instructions for actuators