

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

- Actuating force 2500 N
- Nominal voltage AC 230 V
- Control Open-close, 3-point
- Nominal stroke 40 mm


Technical data

Electrical data	Nominal voltage	AC 230 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 85...265 V
	Power consumption in operation	5.5 W
	Power consumption in rest position	1 W
	Power consumption for wire sizing	9.5 VA
	Connection supply / control	Terminals with cable 1 m, 3 x 0.75 mm ² (Terminal 4 mm ²)
	Parallel operation	Yes (note the performance data)
Functional data	Actuating force motor	2500 N
	Manual override	Gear disengagement with push-button, can be locked
	Nominal stroke	40 mm
	Actuating time	150 s / 40 mm
	Sound power level motor	56 dB(A)
	Position indication	Mechanically, 5...40 mm stroke
Safety	Protection class IEC/EN	II Protective insulated
	Degree of protection IEC/EN	IP54
	EMC	CE according to 2004/108/EC
	Low voltage directive	CE according to 2006/95/EC
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation	Type 1
	Rated impulse voltage supply / control	4 kV
	Control pollution degree	3
	Ambient temperature	0...50 °C
	Non-operating temperature	-40...80 °C
Weight	Ambient humidity	95% r.h., non-condensing
	Maintenance	Maintenance-free
	Weight approx.	4.3 kg

Safety notes


- This device has been designed for use in stationary heating, ventilation and air conditioning systems and is not allowed to 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 is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

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 (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.
Combination valve/actuator	Refer to the valve documentation for suitable valves, their permitted medium temperatures and closing 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.
Direction of rotation 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	Type
Electrical accessories	Auxiliary switch, 2 x SPDT, add-on	S2A-H

Electrical installation

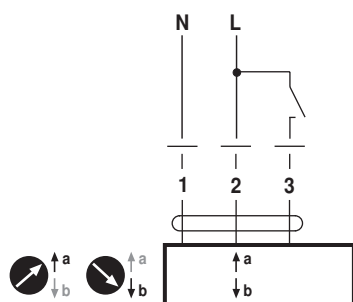


Notes

- Caution: Power supply voltage!
- Parallel connection of other actuators possible. Observe the performance data.
- Direction of stroke switch factory setting: Actuator spindle retracted.

Wiring diagrams

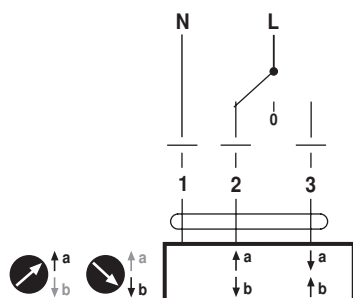
AC 230 V, open-close (one-wire)



Cable colours:

- 1 = blue
- 2 = brown
- 3 = white

AC 230 V, 3-point

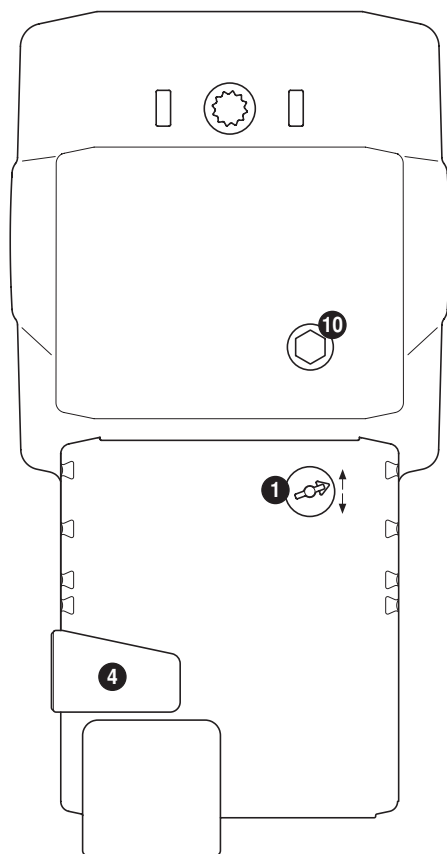


Cable colours:

- 1 = blue
- 2 = brown
- 3 = white



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, synchronisation starts, followed by standard mode

10 Manual override

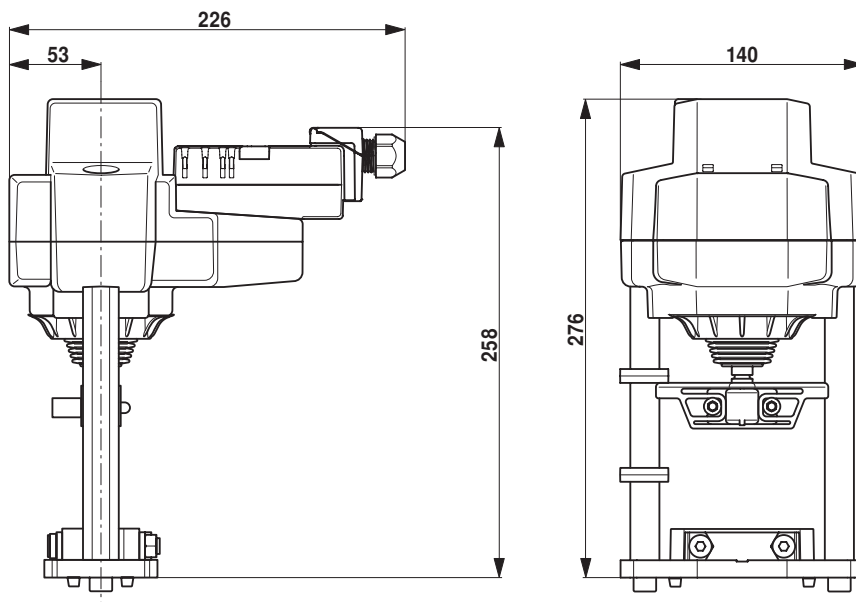
Clockwise: Actuator spindle extends

Counterclockwise: Actuator spindle retracts



Dimensions [mm]

Dimensional drawings



Further documentation

- Overview Valve-actuator combinations
- 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

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

- Actuating force 2500 N
- Nominal voltage AC/DC 24 V
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- Nominal stroke 40 mm



Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2...28.8 V / DC 21.6...28.8 V
	Power consumption in operation	2.5 W
	Power consumption in rest position	0.5 W
	Power consumption for wire sizing	4.5 VA
	Connection supply / control	Terminals with cable 1 m, 3 x 0.75 mm ² (Terminal 4 mm ²)
	Parallel operation	Yes (note the performance data)
Functional data	Actuating force motor	2500 N
	Manual override	Gear disengagement with push-button, can be locked
	Nominal stroke	40 mm
	Actuating time	150 s / 40 mm
	Sound power level motor	56 dB(A)
	Position indication	Mechanically, 5...40 mm stroke
Safety	Protection class IEC/EN	III Safety extra-low voltage
	Degree of protection IEC/EN	IP54
	EMC	CE according to 2004/108/EC
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation	Type 1
	Rated impulse voltage supply / control	0.8 kV
	Control pollution degree	3
	Ambient temperature	0...50°C
	Non-operating temperature	-40...80°C
	Ambient humidity	95% r.h., non-condensing
Weight	Maintenance	Maintenance-free
	Weight approx.	4.3 kg

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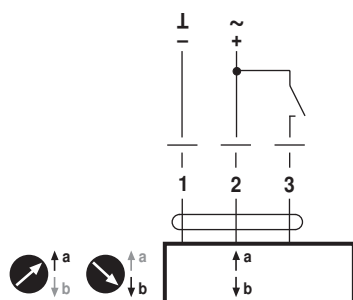


Notes

- Connection via safety isolating transformer.
- Parallel connection of other actuators possible. Observe the performance data.
- Direction of stroke switch factory setting: Actuator spindle retracted.

Wiring diagrams

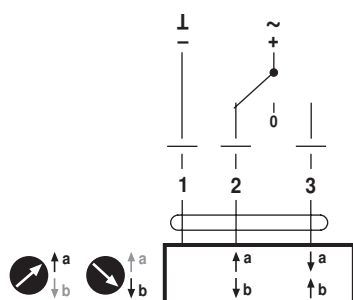
AC/DC 24 V, open-close (one-wire)



Cable colours:

- 1 = black
- 2 = red
- 3 = white

AC/DC 24 V, 3-point

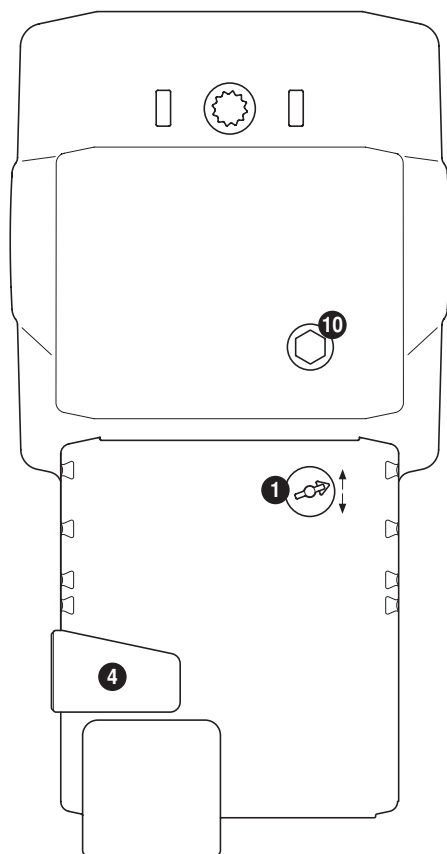


Cable colours:

- 1 = black
- 2 = red
- 3 = white



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**1** Direction of stroke switch

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