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

- Actuating force 1000 N
- Nominal voltage AC 100...240 V
- Control Open/close, 3-point
- Stroke 20 mm

Technical data

Electrical data	Nominal voltage	AC 100...240 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 85...265 V
	Power consumption in operation	2 W
	Power consumption in rest position	1 W
	Power consumption for wire sizing	4.5 VA
	Connection supply / control	Terminals with cable 1 m, 3x 0.75 mm² (Terminal 4 mm²)
	Parallel operation	Yes (note the performance data)
Functional data	Actuating force motor	1000 N
	Manual override	with push-button, can be locked
	Stroke	20 mm
	Running time motor	150 s / 20 mm
	Sound power level, motor	45 dB(A)
	Position indication	Mechanical, 5...20 mm stroke
Safety data	Protection class IEC/EN	II, reinforced insulation
	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
	Low voltage directive	CE according to 2014/35/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	4 kV
	Pollution degree	3
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	0...50°C [32...122°F]
	Storage temperature	-40...80°C [-40...176°F]
	Servicing	maintenance-free
Weight	Weight	1.1 kg

Technical data

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.
- 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 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 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.

High functional reliability The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.

Home position 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.

Setting direction of motion When actuated, the direction-of-stroke switch changes the direction of motion in normal operation.

Accessories

Electrical accessories

Description	Type
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

Caution: Power supply voltage!

Parallel connection of other actuators possible. Observe the performance data.

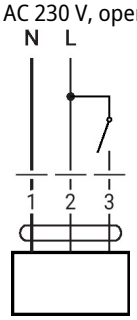
Direction of stroke switch factory setting: Actuator stem retracted (▲).

Wire colours:
1 = blue
2 = brown
3 = white

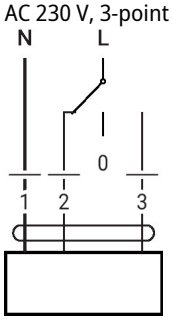
Electrical installation

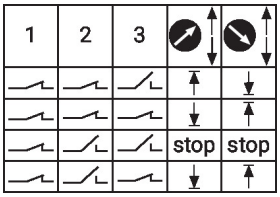
Wiring diagrams

AC 230 V, open/close

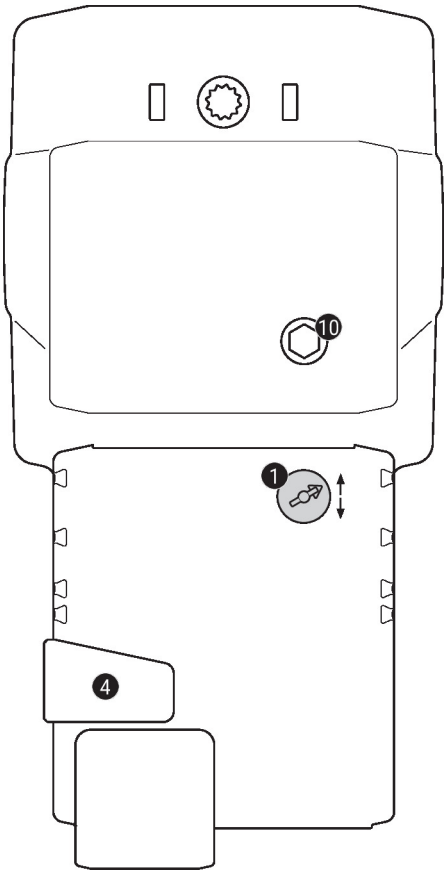


AC 230 V, 3-point





Operating controls and indicators



1 Direction of stroke switch

Switch over:	Direction of stroke changes

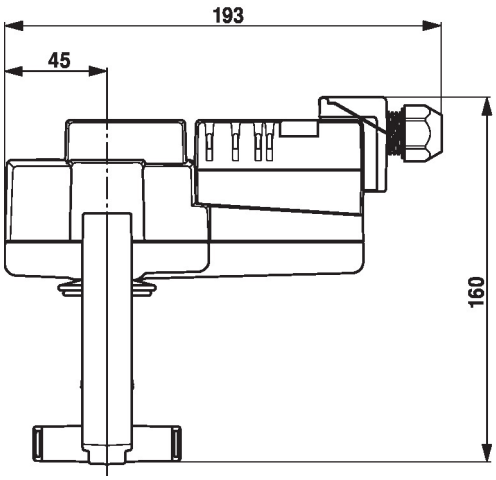
4 Manual override button

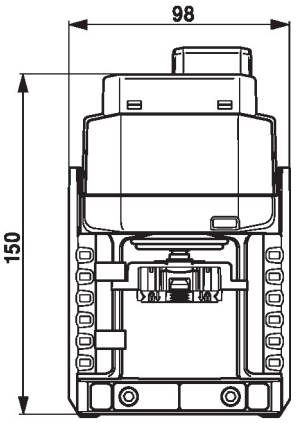
Press button:	Gear train disengages, motor stops, manual override possible
Release button:	Gear train engages, standard mode

10 Manual override

Clockwise:	Actuator stem extends
Counterclockwise:	Actuator stem retracts

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