

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







No No Po	ominal voltage ominal voltage frequency ominal voltage range ower consumption in operation ower consumption in rest position ower consumption for wire sizing onnection supply / control arallel operation	AC 100240 V 50/60 Hz AC 85264 V 3.5 W 0.5 W 6.5 VA Terminals 4 mm² (cable Ø410 mm)
No No Po	ominal voltage frequency ominal voltage range ower consumption in operation ower consumption in rest position ower consumption for wire sizing onnection supply / control	50/60 Hz AC 85264 V 3.5 W 0.5 W 6.5 VA Terminals 4 mm² (cable Ø410 mm)
No Po Po	ominal voltage range ower consumption in operation ower consumption in rest position ower consumption for wire sizing onnection supply / control	AC 85264 V 3.5 W 0.5 W 6.5 VA Terminals 4 mm² (cable Ø410 mm)
Pc Pc	ower consumption in operation ower consumption in rest position ower consumption for wire sizing onnection supply / control	3.5 W 0.5 W 6.5 VA Terminals 4 mm <sup>2</sup> (cable Ø410 mm)
Pc	ower consumption in rest position ower consumption for wire sizing onnection supply / control	0.5 W 6.5 VA Terminals 4 mm² (cable Ø410 mm)
_	ower consumption for wire sizing	6.5 VA Terminals 4 mm² (cable Ø410 mm)
Pr	onnection supply / control	Terminals 4 mm² (cable Ø410 mm)
Co	arallel operation	
Pa		Yes (note the performance data)
Functional data Ad	ctuating force motor	1000 N
M	lanual override	with push-button, can be locked
St	roke	20 mm
Ru	unning time motor	35 s / 20 mm
Sc	ound power level, motor	60 dB(A)
Pc	osition indication	Mechanically, 520 mm stroke
Safety data	rotection class IEC/EN	II reinforced insulation
<u>Pr</u>	rotection class UL	UL Class 2 Supply
De	egree of protection IEC/EN	IP54
De	egree of protection NEMA/UL	NEMA 2 UL Enclosure Type 2
EM	MC	CE according to 2014/30/EU
Lo	ow voltage directive	CE according to 2014/35/EU
Ce	ertification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
Ce	ertification UL	cULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1:02 The UL marking on the actuator depends on the production site, the device is UL-compliant in any case
M	lode of operation	Type 1
Ra	ated impulse voltage supply / control	4 kV
Co	ontrol pollution degree	3
<del>-</del>	mbient temperature	050°C
<del>-</del>	corage temperature	-4080°C
<del>-</del>	mbient humidity	Max. 95% r.H., non-condensing
Se	ervicing	maintenance-free

# Safety notes

1.8 kg

Weight Weight



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**

### Mounting on third-party valves

The retrofit actuators for installation on a wide range of valves from various manufacturers are comprised of an actuator, bracket, universal valve neck adapter and universal valve stem adapter. Adapt the valve neck and valve stem to begin with, then attach the retrofit bracket to the valve neck adapter. Now fit the retrofit actuator into the bracket and connect it to the valve. Whilst taking the position of the valve closing point into account, secure the actuator to the bracket and then conduct the commissioning process. 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.

### Mounting 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 (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.

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**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.

Setting direction of stroke

When actuated, the stroke direction switch changes the running direction in normal operation.

Restriction 3-point controller

It must be ensured that the pulsating 3-point controller stops when the end position is reached. If this is not possible on the system side, the multifunctional 24 V version of the actuator (..V24A-MP-..) must be used.

### **Accessories**

Electrical accessories	Description	Туре
	Auxiliary switch 2 x SPDT add-on	S2A-H
Mechanical accessories	Description	Туре
	Spacer ring for LDM, stroke 20 mm	ZNV-203
	Spacer ring for Sauter, stroke 20 mm	ZNV-204
	Adapter kit Danfoss	ZNV-205

# **Electrical installation**

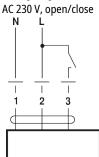


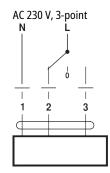
Caution: Power supply voltage!

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

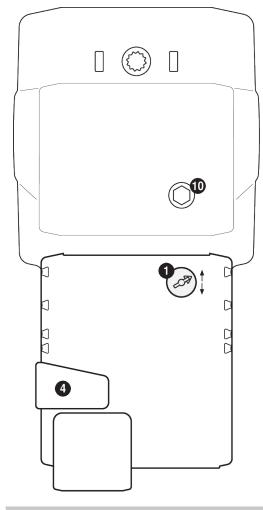


### Wiring diagrams





# **Operating controls and indicators**



Direction of stroke switch

Switch over: Direction of stroke changes

4 Gear disengagement button

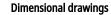
Press button: Gear disengages, motor stops, manual override possible

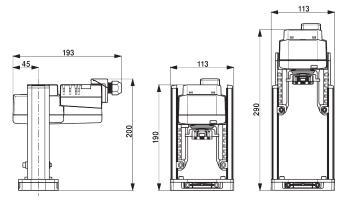
Release button: Gear engages, standard mode

Manual override

Clockwise: Actuator spindle extends
Counterclockwise: Actuator spindle retracts

## **Dimensions**





## **Further documentation**



• Installation instructions for actuators