

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

- Actuating force 1000 N
- Nominal voltage AC/DC 24V
- Control: Open-close, 3-point
- Nominal stroke 20 mm



RETROFIT®

## Technical data

<b>Electrical data</b>	Nominal voltage	AC/DC 24V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2...28.8V / DC 21.6...28.8V
	Power consumption in operation	1.5 W
	Power consumption in rest position	0.5 W
	Power consumption for wire sizing	3 VA
	Connection supply / control	Terminals 4 mm <sup>2</sup>
	Parallel operation	Yes
<b>Functional data</b>	Actuating force	1000 N
	Manual override	Gear disengagement with push-button, can be locked
	Nominal stroke	20 mm
	Actuating time	150 s / 20 mm
	Sound power level motor max.	45 dB (A)
	Position indication	Mechanical 5 ... 20 mm stroke
<b>Safety</b>	Protection class IEC/EN	III Safety extra-low voltage
	Degree of protection IEC/EN	IP54
	EMC	CE in accordance with 2004/108/EC
	Certification IEC/EN	Certified to: 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°C ... 50°C
	Non-operating temperature	-40°C ... 80°C
	Ambient humidity	95% r.h., non-condensing
<b>Weight</b>	Maintenance	Maintenance-free
	Weight approx.	2.530 kg

## Safety notes



- This actuator has been designed for application 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 with during installation.
- The switch for changing the direction of motion/the closing point may be adjusted only by authorised personnel. The direction of stroke 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

<b>Installation on third-party valves</b>	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.
<b>Installation on Belimo valves</b>	Please use standard actuators from Belimo for installation on Belimo globe valves. The installation of retrofit actuators on Belimo globe valves is technically possible.
<b>Manual override</b>	Manual override with push-button possible - temporary, permanently. The gear is disengaged and the actuator decoupled for as long as the button is pressed / latched. 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 spindle extends when the key is rotated clockwise.
<b>High functional reliability</b>	The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.
<b>Position indication</b>	The stroke is indicated mechanically on the bracket with tabs. The stroke range adjusts itself automatically during operation.
<b>Home position</b>	Setting ex-works: Actuator spindle is retracted.
<b>Direction of stroke switch</b>	When actuated, the direction of stroke switch changes the running direction in normal operation.

## Accessories

	Description	Type
<b>Electrical accessories</b>	Auxiliary switch add-on, 2 x SPDT	S2A-H

## Electrical installation

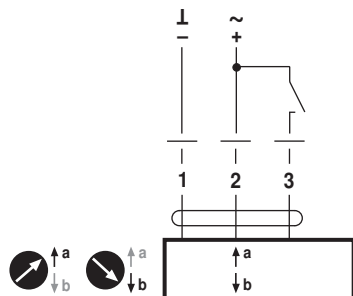


### Notes

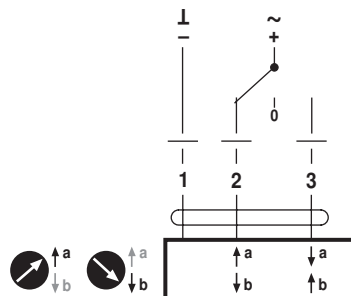
- Connection via safety isolating transformer.
- Parallel connection of other actuators possible.
- Direction of stroke switch factory setting: Actuator spindle retracted.

## Wiring diagrams

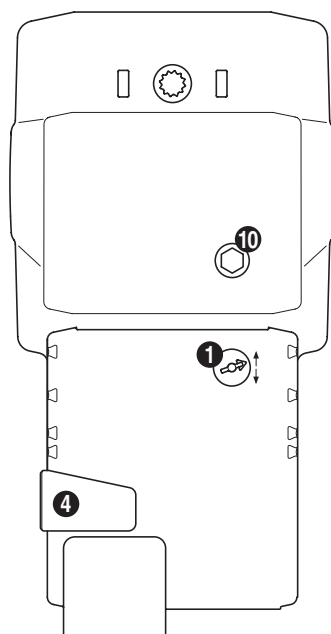
### AC/DC 24 V, open-close (one-wire)



### AC/DC 24 V, 3-point



## Indicators and operating elements



### (1) Direction of stroke switch

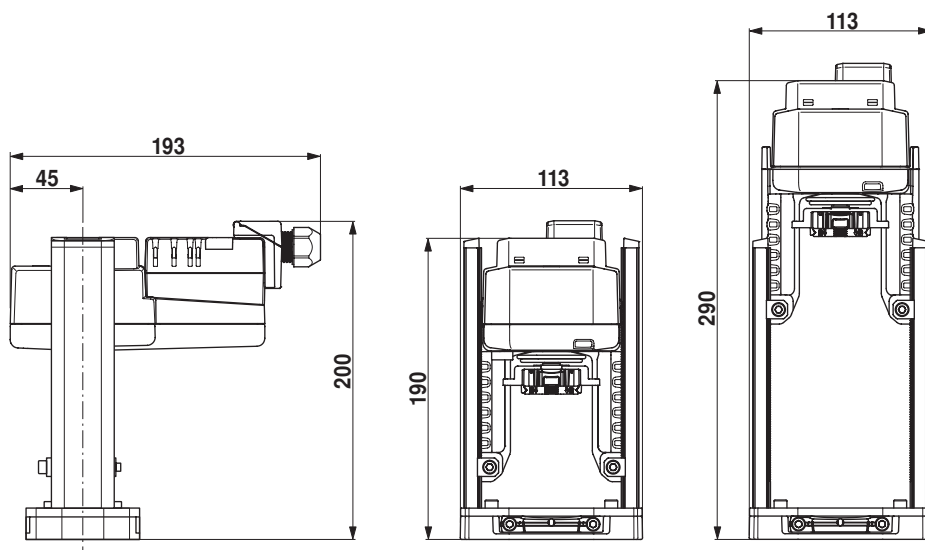
Switching: Direction of stroke changes

### (4) Gear disengagement button

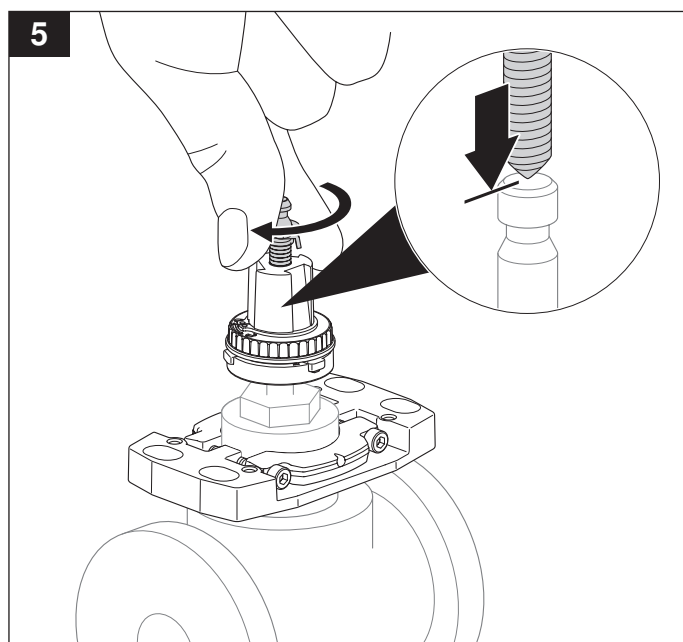
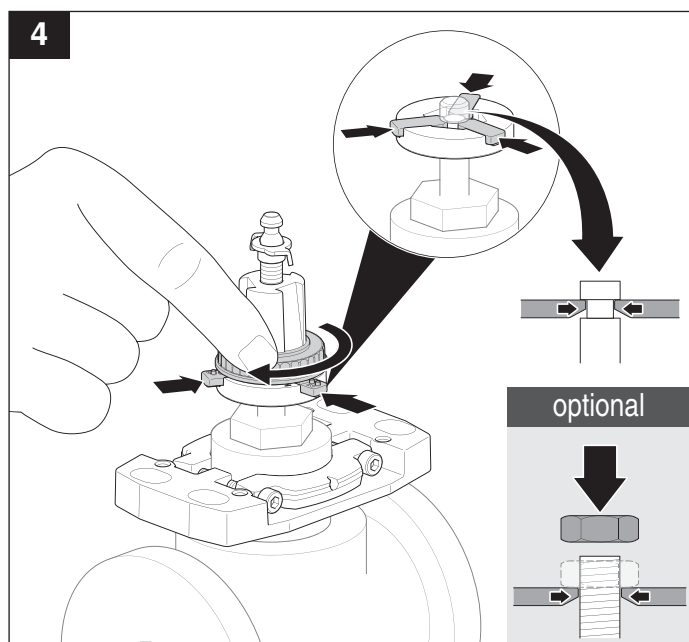
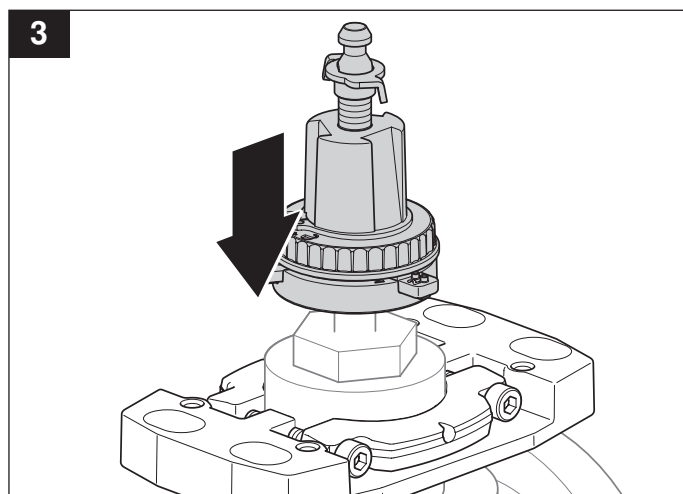
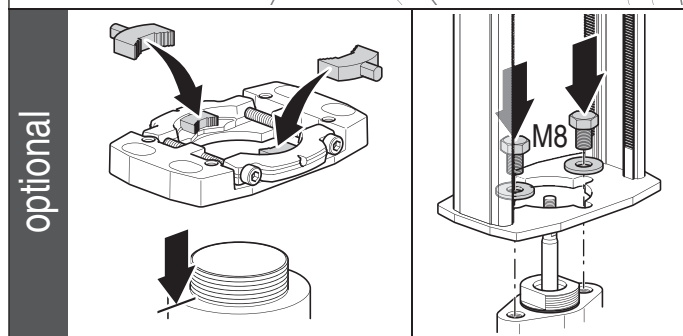
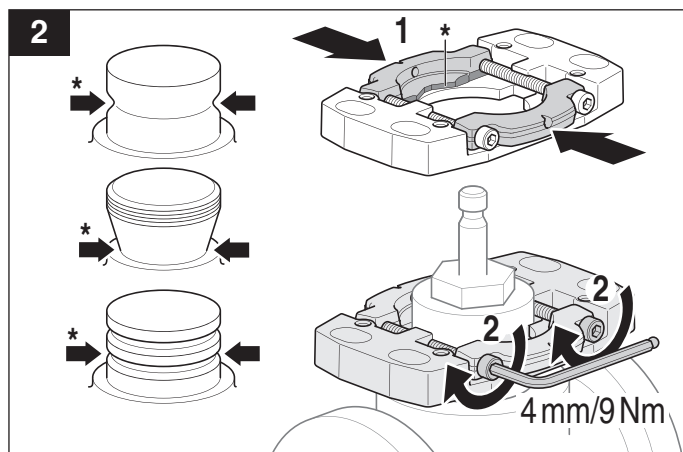
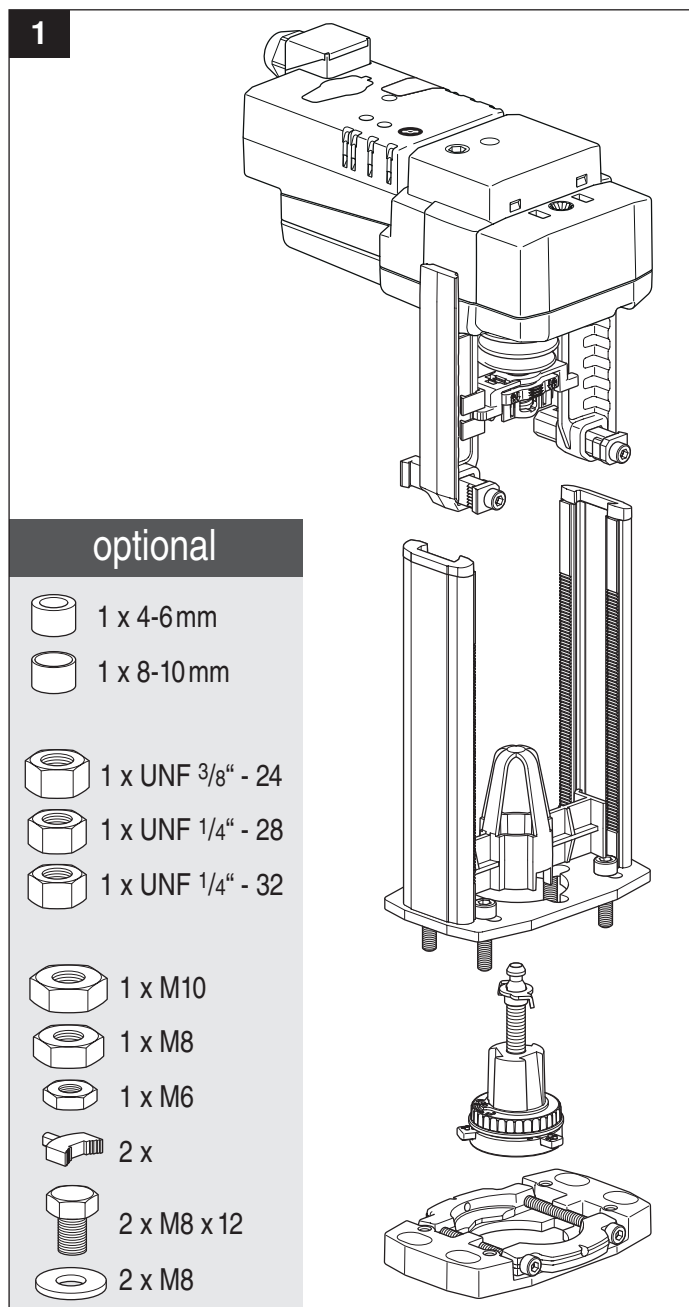
Press button: Gear disengages, motor stops, manual override possible  
Release button: Gear engages, standard mode

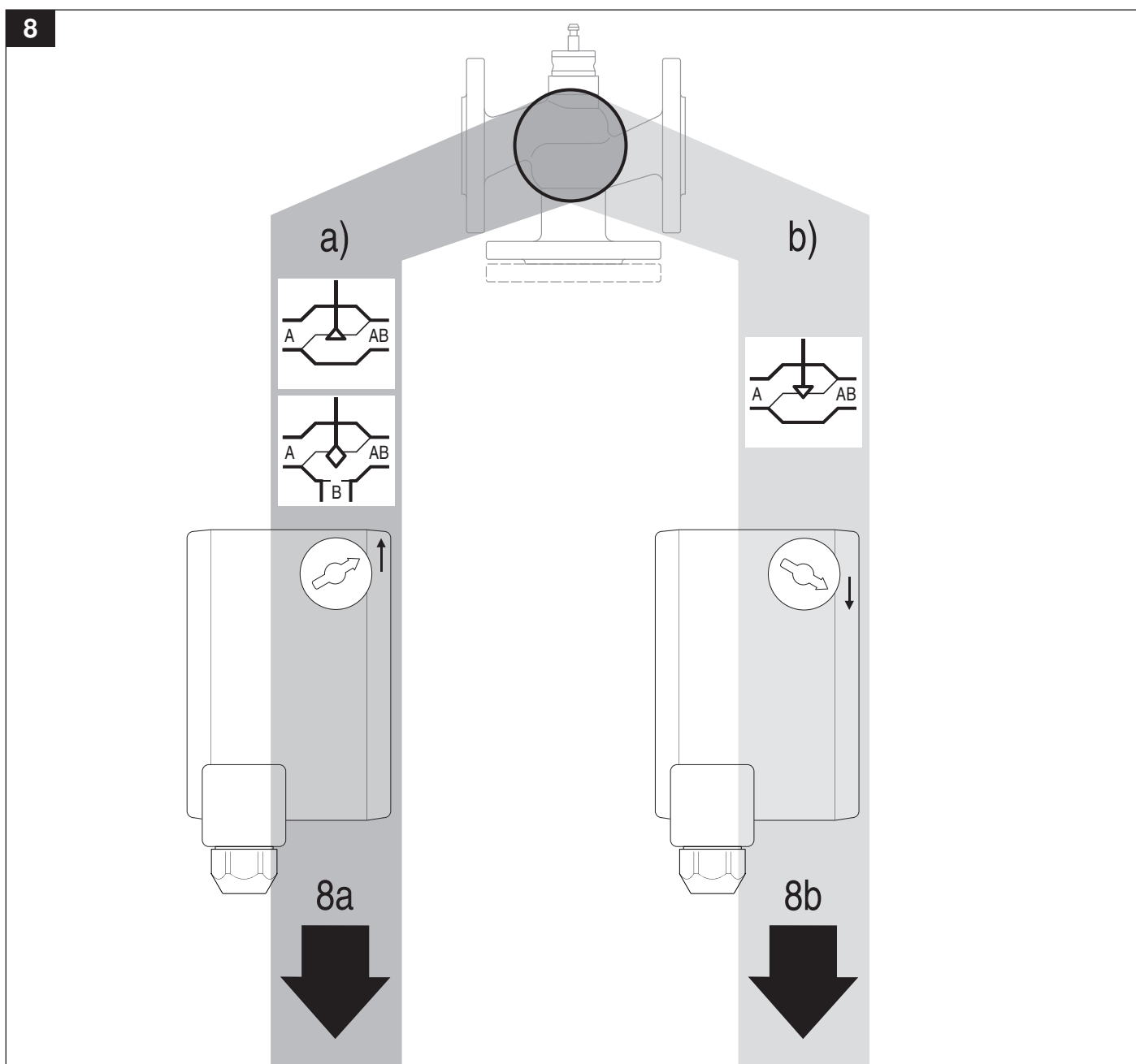
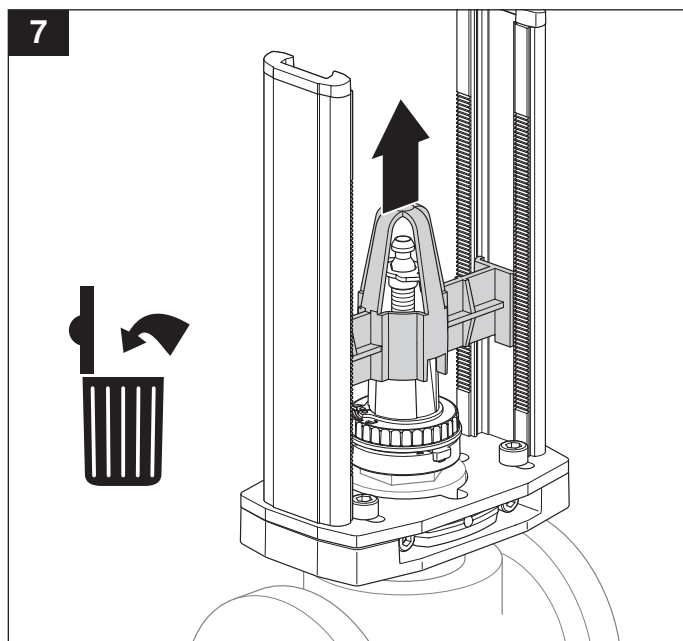
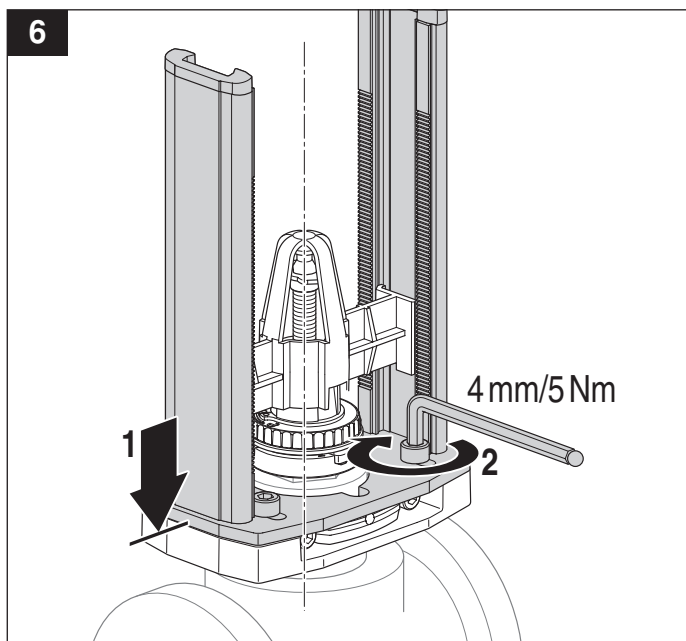
### (10) Manual override

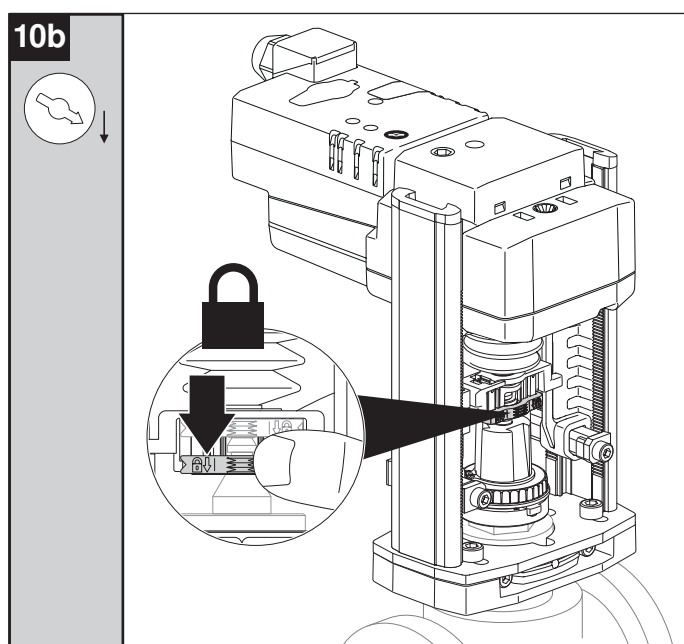
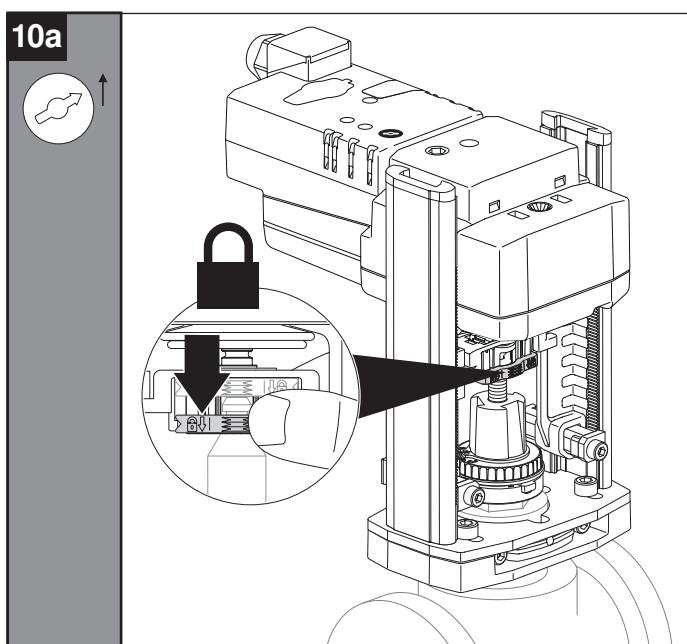
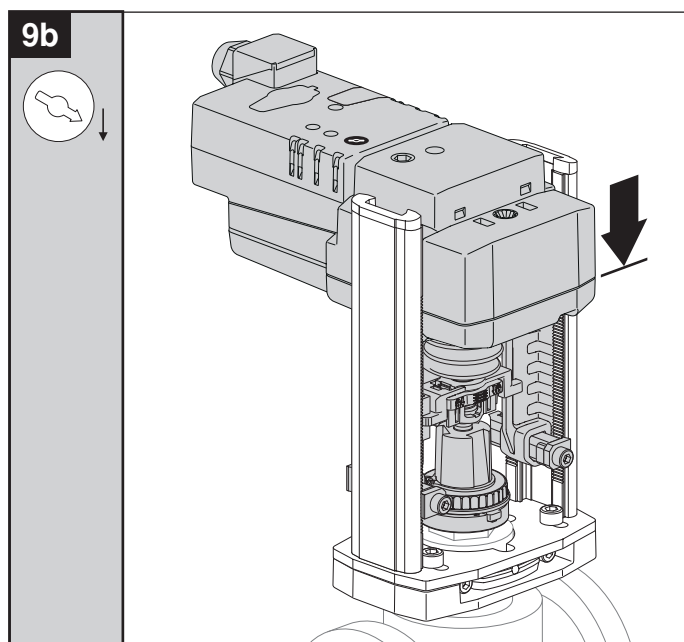
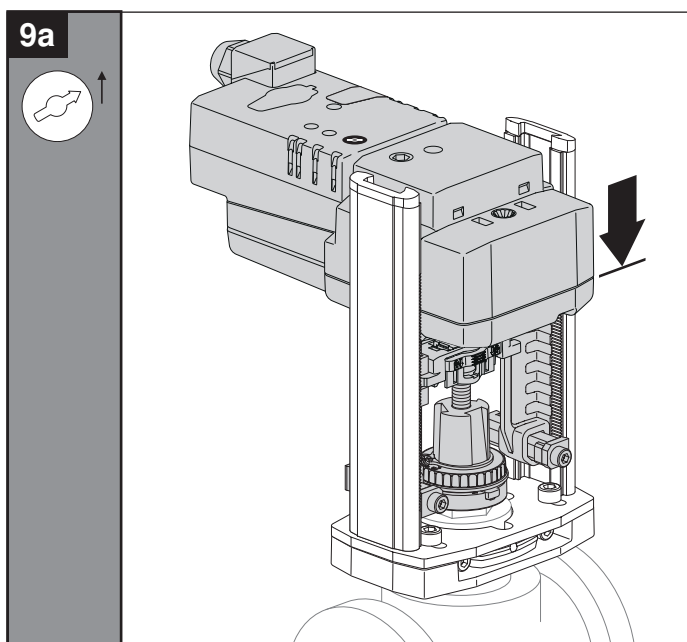
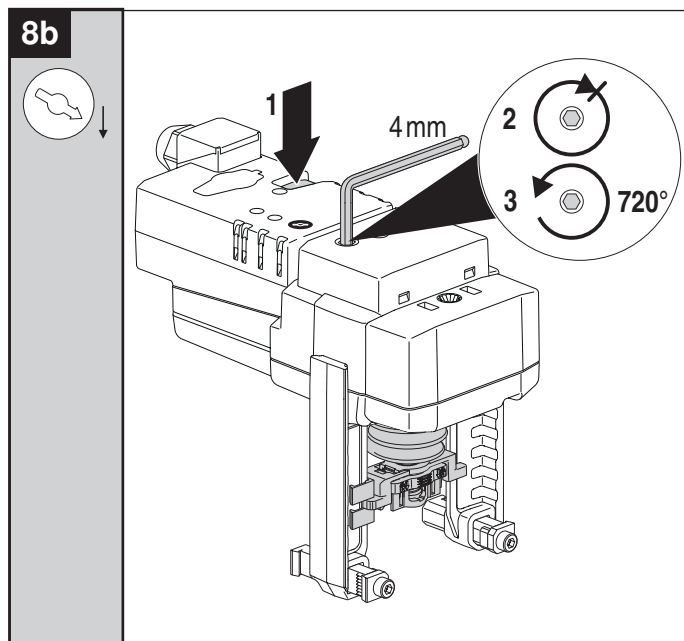
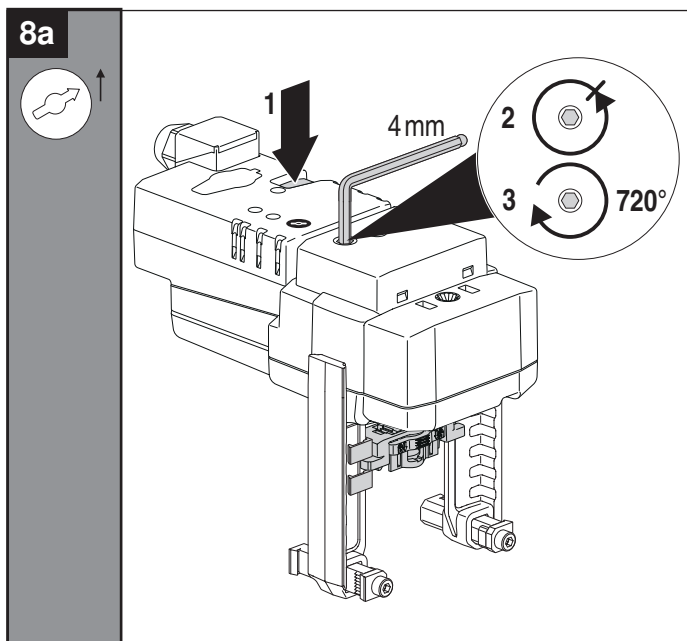
Clockwise: Actuator spindle extends  
Counterclockwise: Actuator spindle retracts

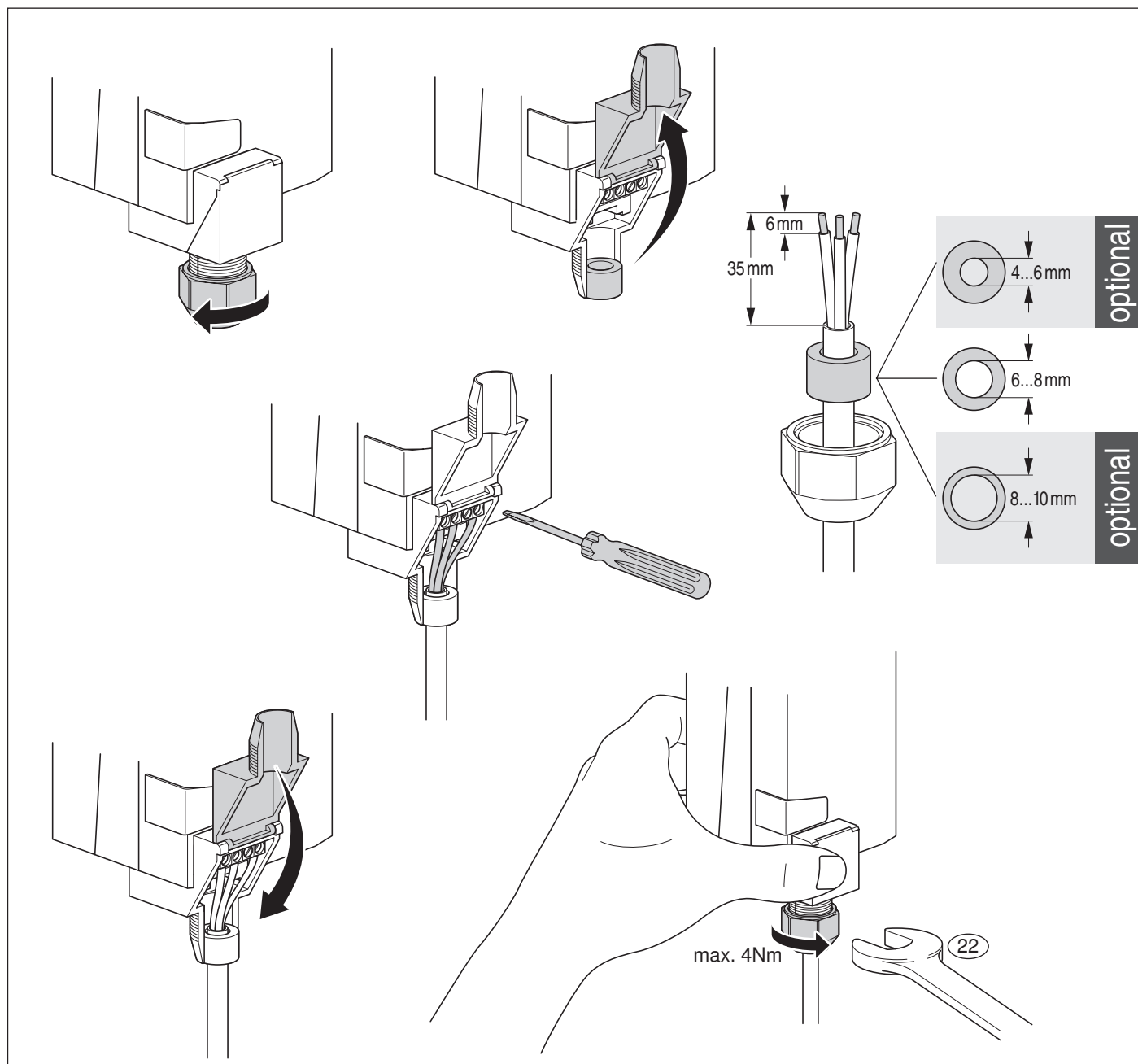
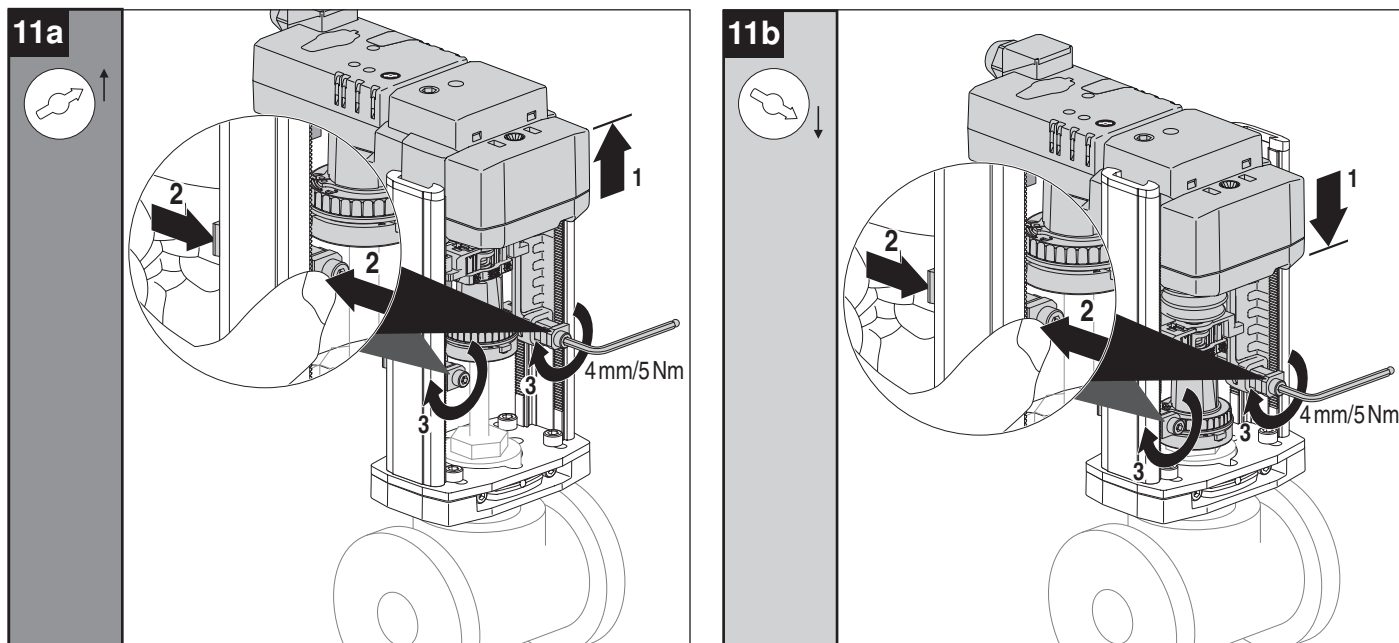
**Dimensions [mm]**
**Dimensional drawings**

**Further documentation**

- Installation instructions for actuators





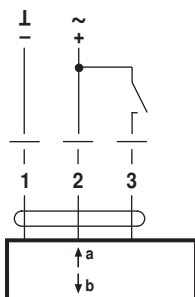
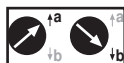






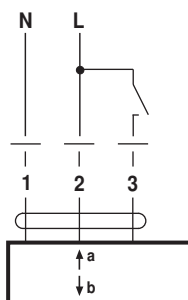


AC 24 V / DC 24 V

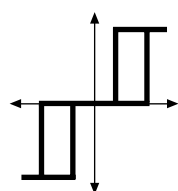


NV(C)24A-RE  
SV(C)24A-RE

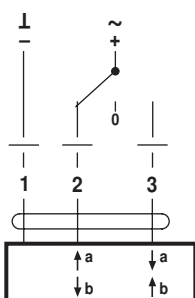
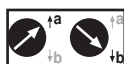
AC 230 V



NV(C)230A-RE  
SV(C)230A-RE

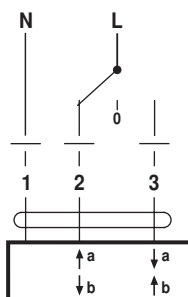


AC 24 V / DC 24 V



NV(C)24A-RE  
SV(C)24A-RE

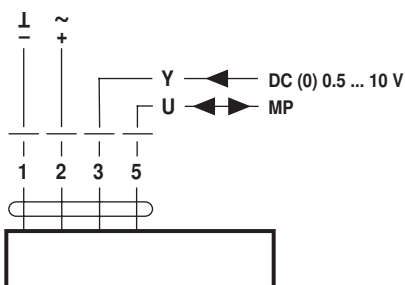
AC 230 V



NV(C)230A-RE  
SV(C)230A-RE



AC 24 V / DC 24 V



NV(C)24A-MP-RE  
SV(C)24A-MP-RE