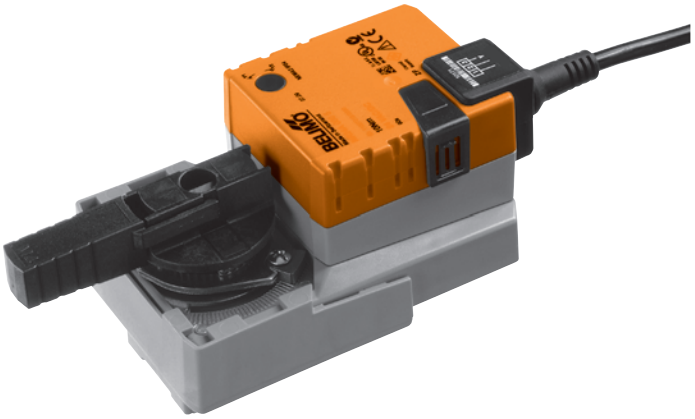
Rotary actuator
for 2- and 3-way (control) ball valves
- **Torque 10 Nm**
- **Nominal voltage AC 100 ... 240 V**
- **Control: Open/close or 3-point**



Technical data

Electrical data	Nominal voltage		AC 100 ... 240 V, 50/60 Hz
	Nominal voltage range		AC 85 ... 265 V
	Power consumption	In operation	2.5 W @ nominal torque
		At rest	0.6 W
		For wire sizing	5.5 VA
	Connection		Cable 1 m, 3 x 0.75 mm²
	Parallel connection		Possible, note performance data
Functional data	Torque (nominal torque)		Min. 10 Nm @ nominal voltage
	Manual override		Gearing latch disengaged with pushbutton, can be locked
	Running time		90 s / 90°
	Sound power level		Max. 35 dB (A) (without the valve)
	Position indication		Mechanical, pluggable
Safety	Protection class		**II** totally insulated ⧈
	Degree of protection		IP54 in any mounting position NEMA 2, UL Enclosure Type 2
	EMC Low-voltage directive		CE according to 2004/108/EC CE according to 2006/95/EC
	Certification		cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation		Type 1
	Rated impulse voltage		2.5 kV
	Control pollution degree		3
	Ambient temperature		0 ... +50°C
	Media temperature		+5 ... +110°C in (control) ball valve –10°C with stem heating upon request
	Non-operating temperature		–40 ... +80°C
	Ambient humidity		95% r.H., non-condensating
	Maintenance		Maintenance-free
Dimensions / Weight	Dimensions		See «Dimensions» on page 2
	Weight		Approx. 750 g

Safety notes

⚠

- **The actuator 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.**
- **Caution: Power supply AC 230 V !**
- **It may only be installed by suitably trained personnel.**
  All applicable legal or institutional installation regulations must be complied with.
- **The switch for changing the direction of rotation may only be operated by authorized personnel. The direction of rotation must not be reversed in a frost protection circuit.**
- **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 cable must not be removed from the device.**
- **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.**

Rotary actuator, AC 100 ... 240 V, 10 Nm, for 2- and 3-way (control-) ball valves

Product features

Simple direct mounting
Straightforward direct mounting on the ball valve with only one screw. The assembly tool is integrated in the plug-on position indicator. The mounting position in relation to the ball valve can be selected in 90°⊲ steps.

Manual override
Manual override with push-button possible (the gear is disengaged for as long as the button is pressed or remains locked).

Adjustable angle of rotation
Adjustable angle of rotation with mechanical end stops.

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

Accessories

	Description	Data sheet
Electrical Accessories	Auxiliary switch S..A..	T2 - S..A..
	Feedback potentiometer P..A..	T2 - P..A..

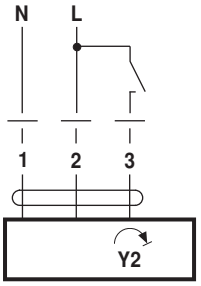
Electrical installation

Wiring diagrams

Notes
- Caution: Power supply AC 230 V !
- Parallel connection of other actuators possible. Note performance data.
- Direction of rotation switch is covered. Factory setting: Direction of rotation Y2.

Direction of rotation

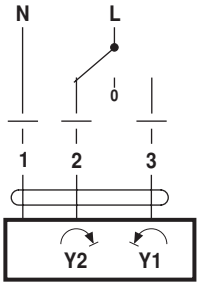
Open-close control



Cabel colours:
1=blue
2=braun
3=white

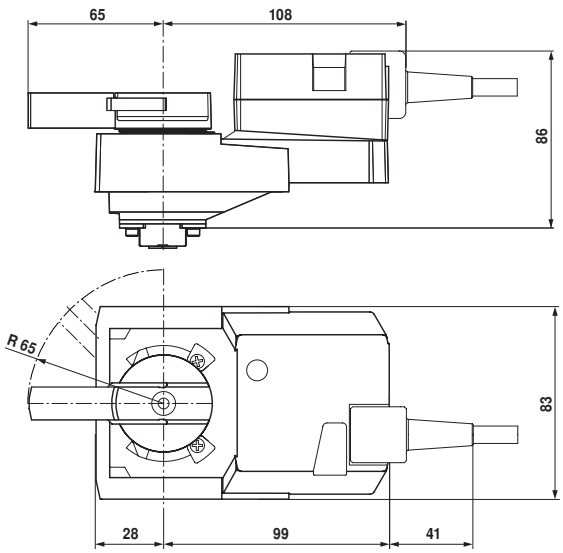
Actuator		valve
Y2		A – AB = 0%

3-point control



Dimensions [mm]

Dimensional drawings



Further documentations
- Complete overview «The comlete range of water solutions»
- Data sheets for control ball valves
- Installation instructions for actuators and/or control ball valves
- Notes for project planning (hydraulic characteristic curves and circuits, installation regulations, commissioning, maintenance etc.)

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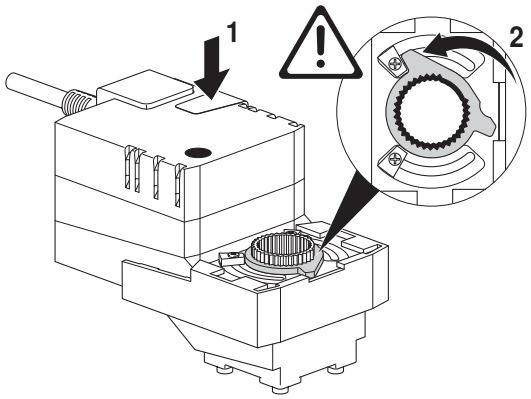

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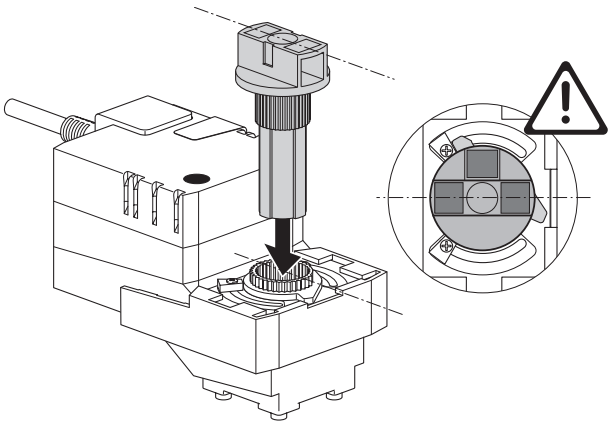

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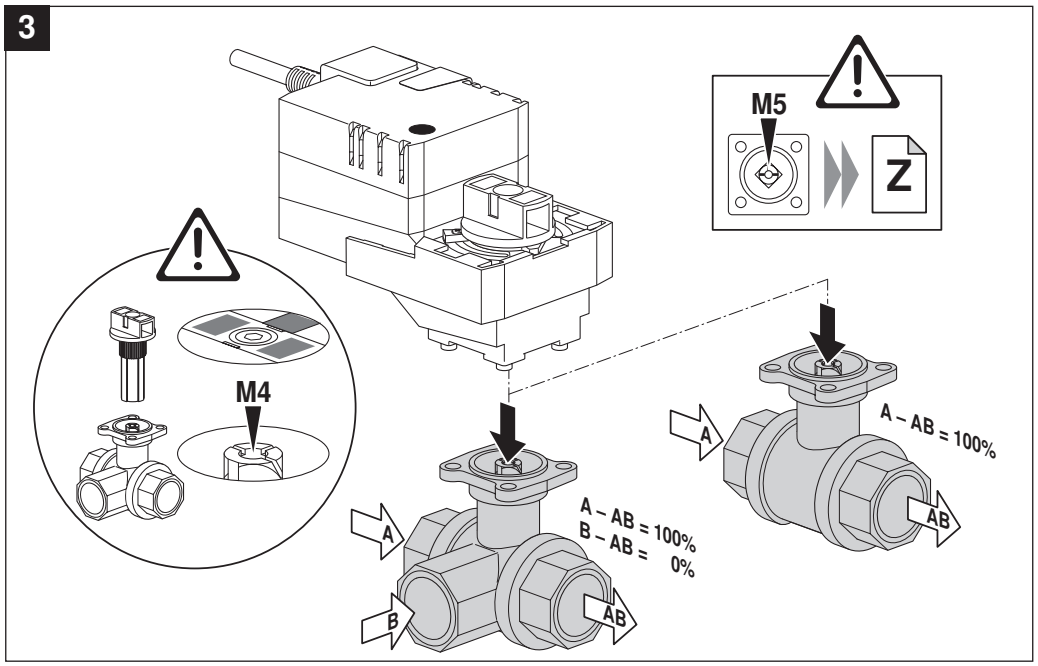

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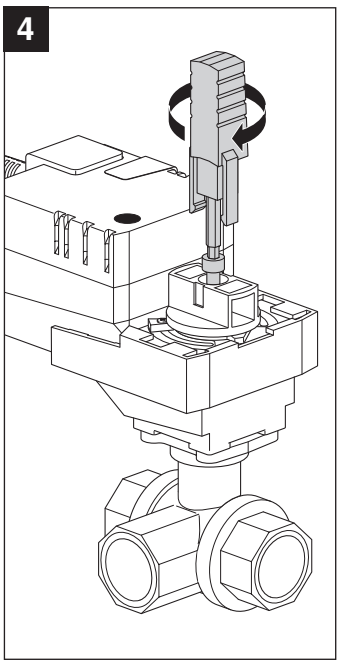

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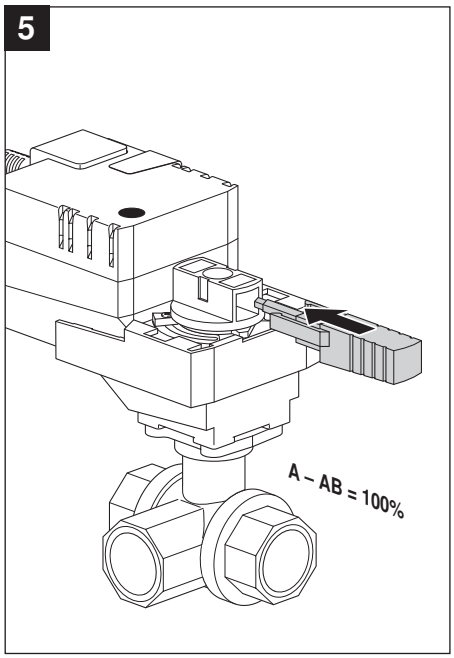
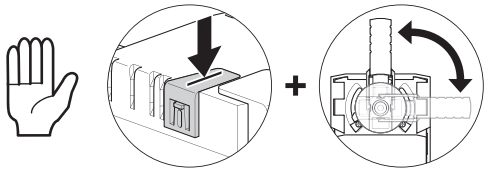
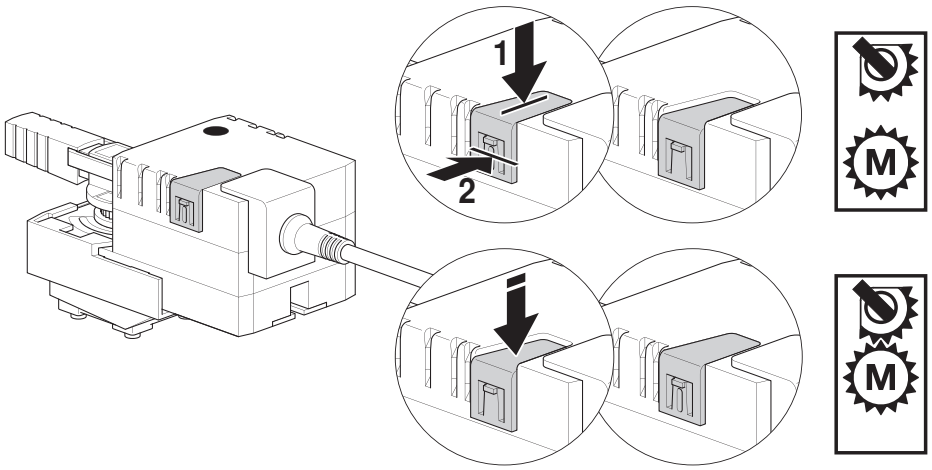
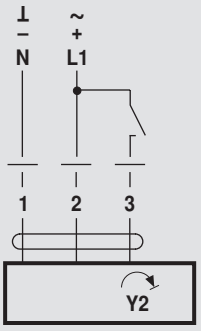
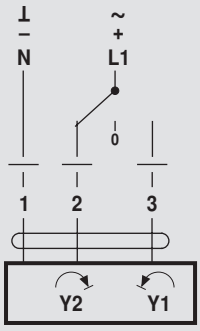


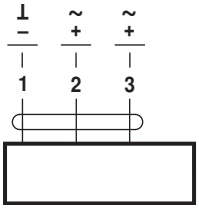




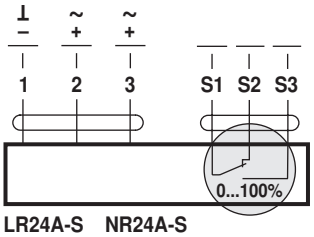




AC 24 V / DC 24 V

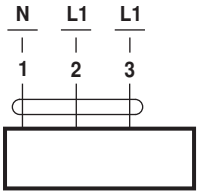


LR24A NR24A
SR24A

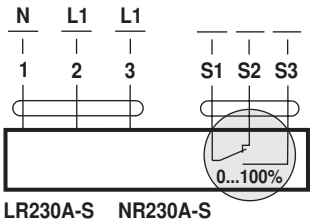


LR24A-S NR24A-S
SR24A-S

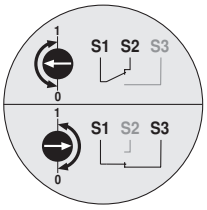
AC 100 ... 240 V ⚠

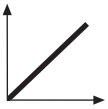


LR230A NR230A
SR230A

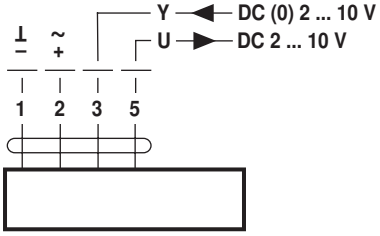


LR230A-S NR230A-S
SR230A-S

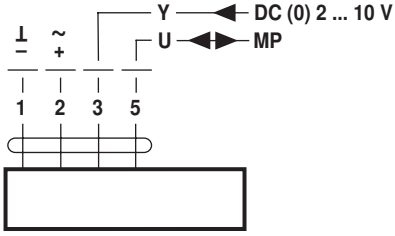




AC 24 V / DC 24 V

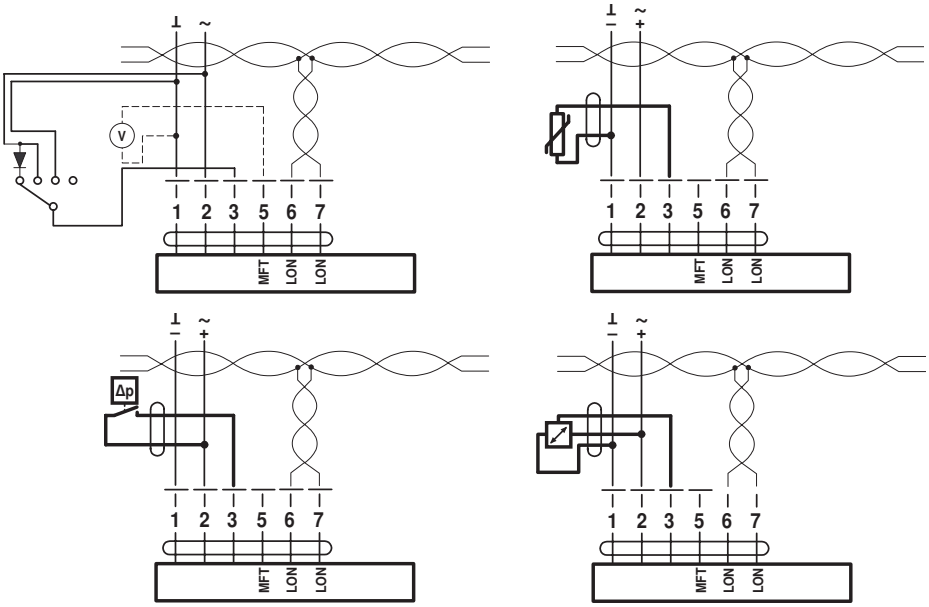


TRC24A-SR LR24A-MF
LR(C)24A-SR NR24A-MF
NR(C)24A-SR SR24A-MF
SR24A-SR



LR24A-MP NR24A-MP
SR24A-MP

LONWORKS® **AC 24 V / DC 24 V**



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