

Rotary actuator for 2 and 3-way ball valves

- Torque 10 Nm
- Nominal voltage AC 24 V
- · Control: Open/close or 3-point
- · Auxiliary switch



Technical data		
Electrical data	Nominal voltage	AC 24 V, 50/60 Hz
	Power supply range	AC 19.2 28.8 V
	Power consumption In operation	1.5 W at nominal torque
	For wire sizing	1.5 VA
	Auxiliary switch	1 SPDT, 5 (1) A, AC 250 V II 🗆
		Adjustable switching point, 0 100%<
		(Factory setting 100%<)
	Connecting cable Motor	1 m, 3 x 0,75 mm ²
	Auxiliary switch	1 m, 3 x 0,75 mm ²
	Parallel connection	No
Functional data	Torque (nominal torque)	Min. 10 Nm at nominal voltage
	Position accuracy	±5%
	Manual override	Temporary and permanent disengagement of the
		gearing latch by means of the rotary knob on the
		housing
	Running time	140 s / 90°⊲
	Sound power level	Max. 35 dB (A)
	Position indication	Scale plate 0 1
Safety	Protection class	III Extra low voltage
	Degree of protection	IP40
	EMC	CE according to 89/336/EEC
	Mode of operation	Type 1.B (to EN 60730-1)
	Rated impulse voltage	0.8 kV (to EN 60730-1)
	Control pollution degree	3 (to EN 60730-1)
	Ambient temperature range	0 +50°C
	Media temperature	+5 +120°C (in ball valve)
	Non-operating temperature	−30 +80°C
	Ambient humidity range	95% r.H., non-condensating (to EN 60730-1)
	Maintenance	Maintenance-free
Dimensions / Weight	Dimensions	See «Dimensions» on page 2
J	Weight	Approx. 500 g (without ball valve)

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.
- It may only be installed by suitably trained personnel.

 All applicable legal or institutional installation regulations must be complied with.
- The device 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 Straightforward direct mounting on the ball valve with only one screw. The mounting position in

relation to the mixing valve can be selected in 90° ≤ steps.

Manual operation possible by lever (temporary disengagement of the gearing latch by pressing, Manual operation

permanent disengagement by means of the rotary knob on the housing).

Functional reliability The actuator switches off automatically when the end stops are reached.

Combination valve actuators Refer to the valve documentation for suitable valves, their permitted media temperatures and

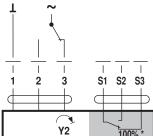
closing pressures.

Electrical installation

Wiring diagrams

Note

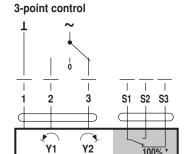
Connect via safety isolation transformer.



Open-close control

Cable colours: 1 = black 2 = white 3 = white S1 = white S2 = white S3 = white

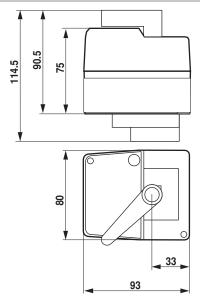
Rotary actuator		Rotary valve
Y2	→	A – AB = 0%



* Factory setting

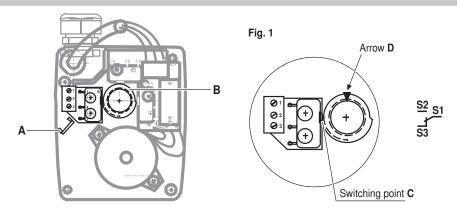
Dimensions [mm]

Dimensional diagrams





Adjusting auxiliary switch



- 1. Remove the cover of the housing.
- 2. Press down the manual disengagement **A** on the actuator and turn the actuator into the required switching position of the auxiliary switch by means of the lever.
- 3. Insert the cam ring **B** as shown in Fig. 1, so that the switching point **C** just about operates the switch. Connection S1–S2 is switched (the arrow **D** is now at the top).
- 4. Assemble the cover of the housing.

Dismounting the housing cover

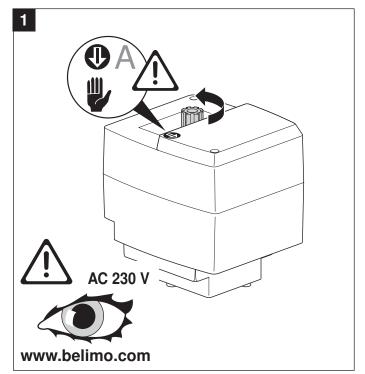
Loosen the central screw at the black lever and remove the two Phillips screws of the housing cover.

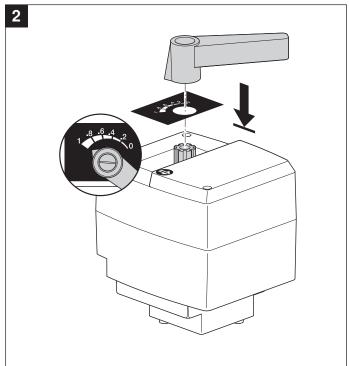
Further documentations

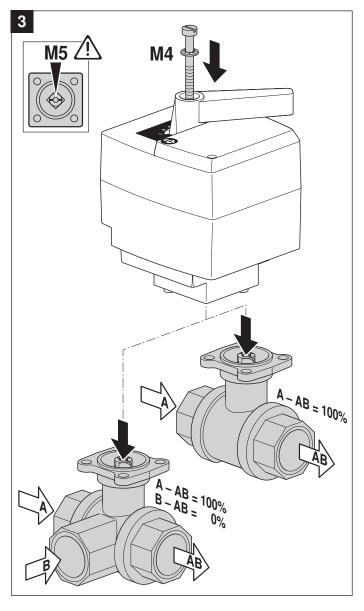
- · Complete overview of actuators for water solutions
- Data sheets for ball valves
- Installation instructions for actuators and/or ball valves
- Notes for project planning (hydraulic characteristic curves and circuits, installation regulations, commissioning, maintenance etc.)

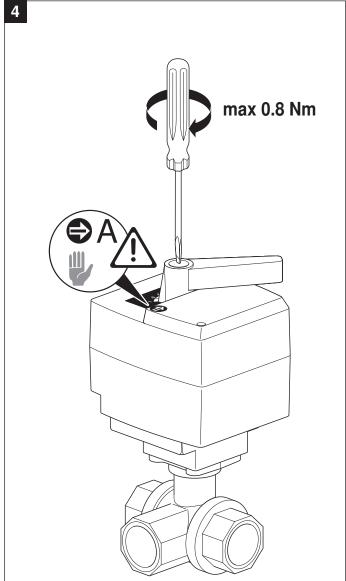


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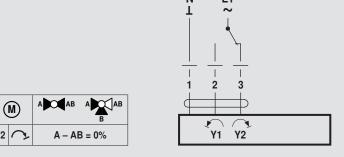


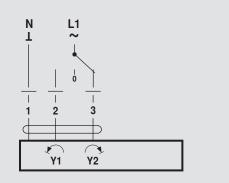


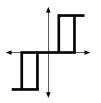




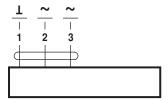






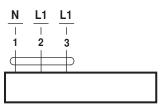


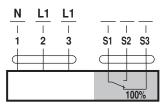
AC 24 V





AC 230 V





HR..230-3

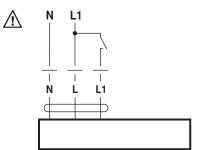
HR..24-3

 $\overline{\mathbb{V}}$

HR..230-3-S



AC 230 V



HR..230-1-T



AC 24 V / DC 24 V

