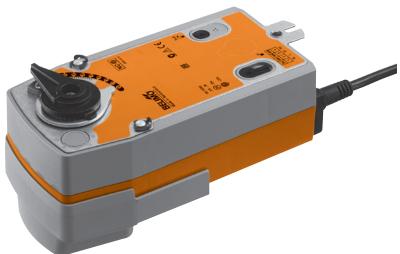


Rotary actuator with emergency function for 2- and 3-way ball valves

- Torque 10 Nm
- Nominal voltage AC 230 V
- · Control: Open-close
- NRF230A: Deenergised NC NRF230A-O: Deenergised NO



Technical data		
Electrical data	Nominal voltage	AC 230 V, 50/60 Hz
	Nominal voltage range	AC 195 264 V
	Power consumption In operation	6 W @ nominal torque
	At rest	2.5 W
	For wire sizing	9.5 VA
	Connection	Cable 1 m, 2 x 0.75 mm ²
	Parallel connection	Yes (Note performance data for supply!)
Functional data	Torque Motor	Min. 10 Nm @ nominal voltage
	Spring return	Min. 10 Nm
	Direction of rotation Spring return	
	- NRF230A	Deenergised NC, ball valve closed (A – AB = 0%)
	– NRF230A-O	Deenergised NO, ball valve open (A – AB = 100%)
	Manual override	With hand crank and interlocking switch
	Angle of rotation	Max. 90° <i>≺</i>
	Running time Motor Spring return	≤75 s / 90°< ≤20 s @ −20 50°C / max. 60 s @ −30°C
	Sound power level Motor	≤45 dB (A)
	Spring return	≤62 dB (A)
	Position indication	Mechanical
Safety	Protection class	II totally insulated □
	Degree of protection	IP54
		NEMA 2, UL Enclosure Type 2
	EMC	CE according to 2004/108/EC
	Low-voltage directive	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.AA
	Rated impulse voltage	4 kV
	Control pollution degree	3
	Ambient temperature	−30 +50°C
	Media temperature	+5 +100 °C (in 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 3
	Weight	Approx. 2 kg (without ball valve)

Rotary actuator with emergency function for ball valves, AC 230 V, 10 Nm



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 voltage!
- · It may only be installed by suitably trained personnel. All applicable legal or institutional installation regulations must be complied with.
- · 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.

Product features

Mode of operation The actuator moves the ball valve to the operating position at the same time as tensioning the

return spring. The ball valve is turned back to the safety position by spring force if the supply

voltage is interrupted.

Simple direct mounting Straightforward direct mounting on the ball valve with only one screw. The mounting position in

Manual operation of the valve with the hand crank, locking in any position with the interlocking Manual override

switch. Unlocking is manual or automatic by applying the operating voltage.

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

High operational reliability The actuator is overload-proof, requires no limit switches and automatically stops when the end

stop is reached.

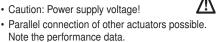
Combination valve actuators Refer to the valve documentation for suitable valves, their permitted media temperatures and

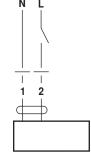
closing pressures.

Electrical installation

Wiring diagram

Notes





Cable colours:

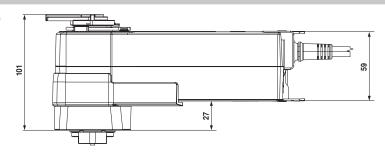
1 = black

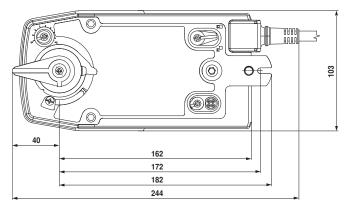
2 = red



Dimensions [mm]

Dimensional drawings

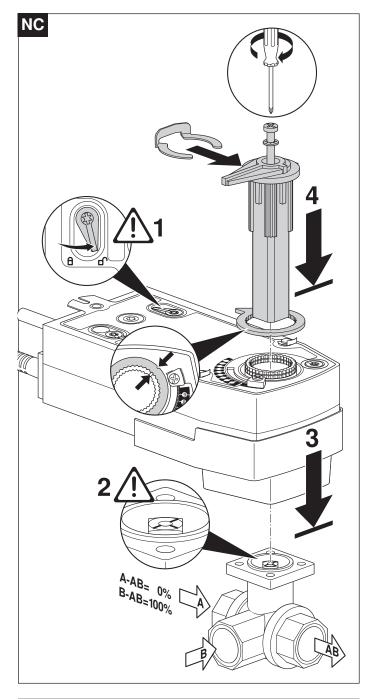


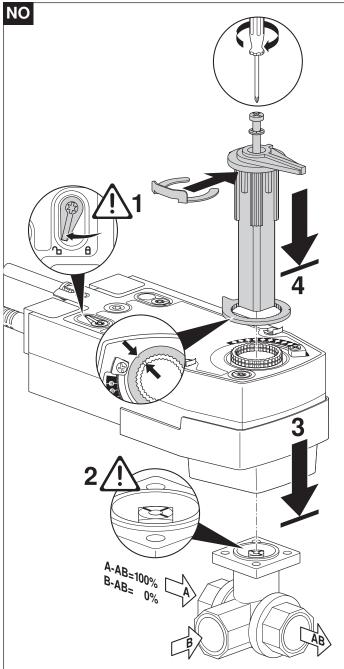


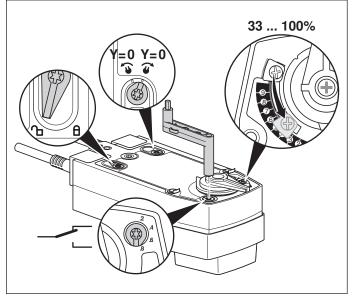
Further documentations

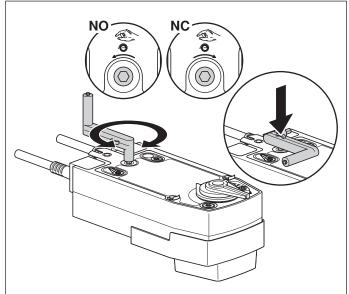
- Complete overview «The comlete range of water solutions»
- Data sheets for ball valves
- Installation instructions for actuators and/or ball valves
- Notes for project planning (hydraulic characteristic curves and circuits, installation regulations, commissioning, maintenance etc.)

BELIMO

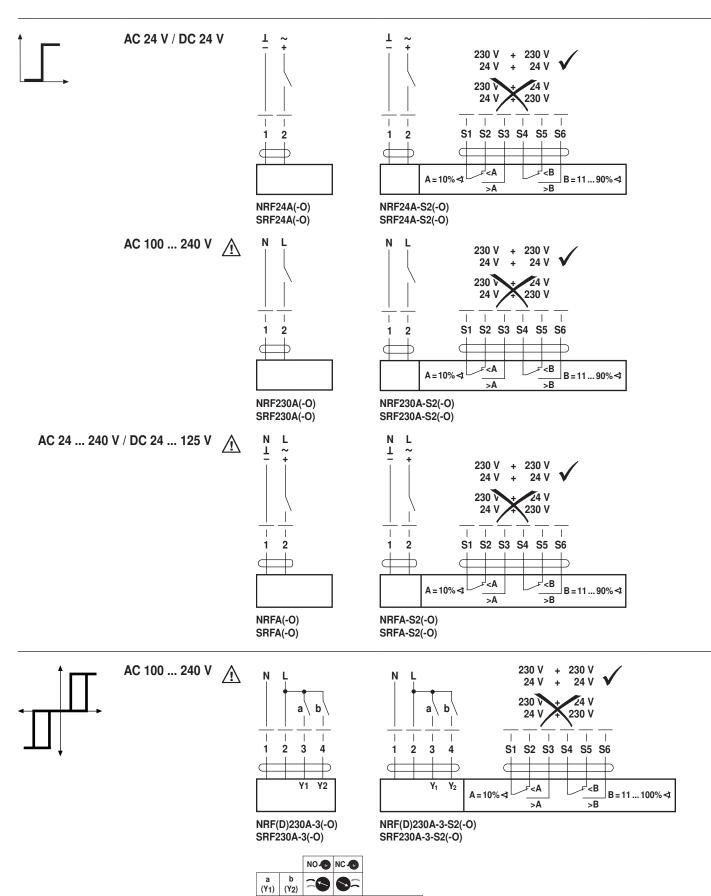












stop

stop

A – AB = 100%

A - AB = 0%