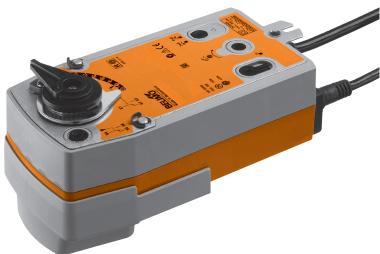


Rotary actuator with emergency function for 2- and 3-way ball valves

- Torque 20 Nm
- Nominal voltage AC/DC 24 V
- · Control: Open-close
- Two integrated auxiliary switches
- SRF24A-S2: Deenergised NC SRF24A-S2-O: Deenergised NO



Technical data		
Electrical data	Nominal voltage	AC 24 V, 50/60 Hz / DC 24 V
	Nominal voltage range	AC 19.2 28.8 V / DC 21.6 28.8 V
	Power consumption In operation	5 W @ nominal torque
	At rest	2.5 W
	For wire sizing	7.5 VA
	Auxiliary switch	2 x SPDT, 1 mA 3 (0.5) A, AC 250 V □ (1 x fix 10% / 1 x adjustable 11 100%)
	Connection Motor	Cable 1 m, 2 x 0.75 mm ²
	Auxiliary switch	Cable 1 m, 6 x 0.75 mm ²
	Parallel connection	Yes (Note performance data for supply!)
Functional data	Torque Motor Spring return	Min. 20 Nm @ nominal voltage Min. 20 Nm
	Direction of rotation Spring return	
	– SRF24A-S2	Deenergised NC, ball valve closed (A – AB = 0%)
		Deenergised NO, ball valve open (A – AB = 100%)
	Manual override	With hand crank and interlocking switch
	Angle of rotation	Max. 90°⊲
	Running time Motor	≤75 s / 90° <
	Spring return	≤20 s @ −20 50°C / max. 60 s @ −30°C
	Sound power level Motor	≤45 dB (A) ≤62 dB (A)
	Spring return Position indication	Mechanical
Safety	Protection class	III Extra low voltage / UL Class 2 Supply
	Degree of protection	IP54
	Bogico di protodion	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.B
	Rated impulse voltage Actuator	0.8 kV
	Auxiliary switch	2.5 kV
	Control pollution degree	3
	Ambient temperature	-30 +50°C
	Non-operating temperature Ambient humidity	-40 +80 ° C
	Maintenance	95% r.h., non-condensating Maintenance-free
Dimensions / Weight		
Dimensions / Weight	Dimensions Weight	See «Dimensions» on page 3
	Weight	Approx. 2.2 kg (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. Any legal regulations or regulations issued by authorities must be observed during installation.
- 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 cables must not be removed from the device.
- The integrated switches of this actuator have to be connected either to Power supply voltage or safety extra low voltage. The combination Power supply voltage / safety extra low voltage is not allowed.
- 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

relation to the ball valve can be selected in $90^{\circ} \triangleleft$ steps.

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

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.

Flexible signalization The actuator has one auxiliary switch with a fixed setting and one adjustable auxiliary switch.

They permit a 10% or 11 ... 100% angle of rotation to be signalled.

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

closing pressures.

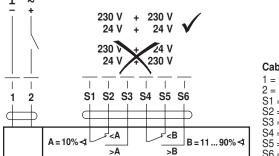
Electrical installation

Wiring diagram

Notes

Connect via safety isolation transformer.

• Parallel connection of other actuators possible. Note the performance data.



Cable colours:

1 = black

2 = red

S1 = violet

S2 = red

S3 = white

S4 = orange

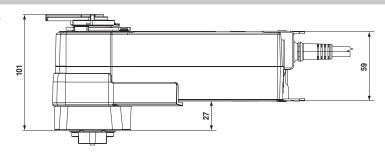
S5 = pink

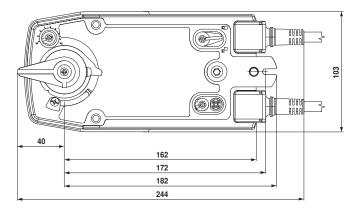
S6 = grey



Dimensions [mm]

Dimensional drawings

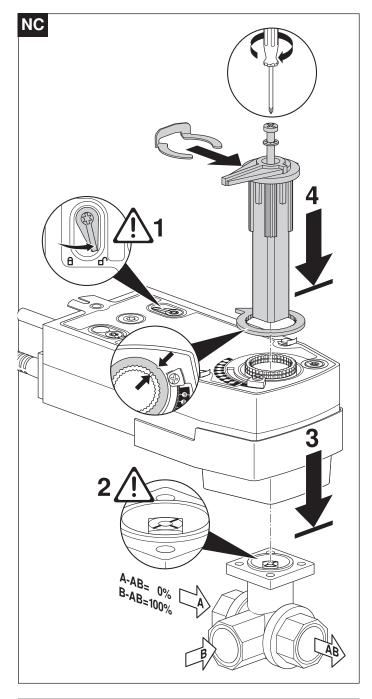


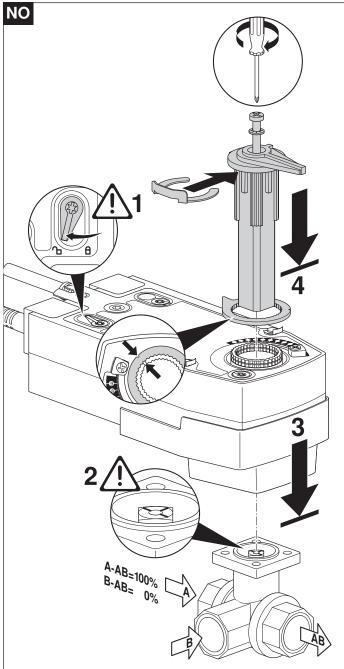


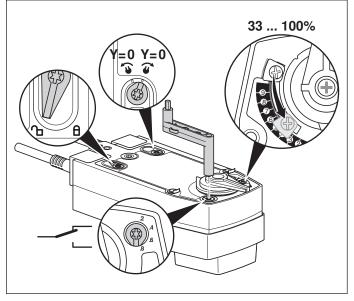
Further documentations

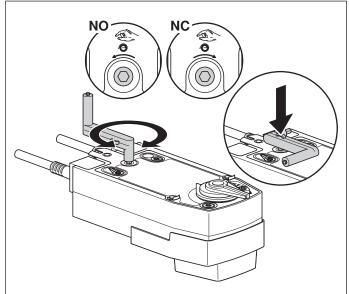
- Complete overview «The comlete range of water solutions»
- Data sheets for ball valves
- Installation instructions for actuators and/or ball valves
- Notes for project planning (hydraulic characteristic curves and circuits, installation regulations, commissioning, maintenance etc.)

BELIMO

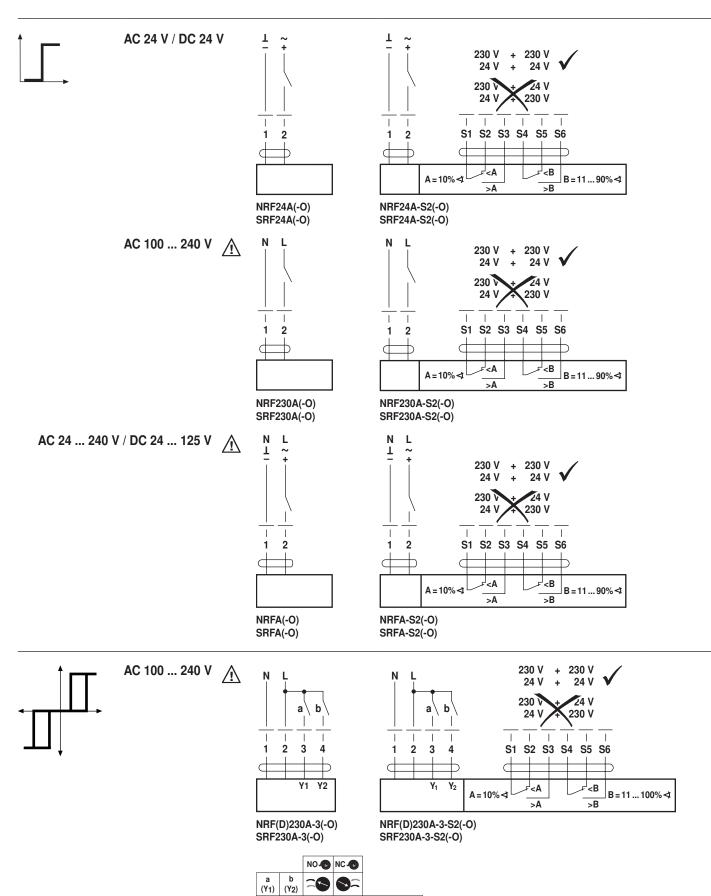












stop

stop

A – AB = 100%

A - AB = 0%