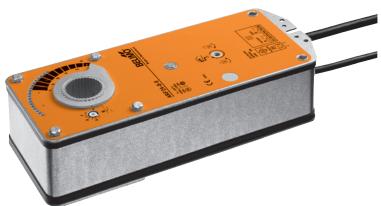


Rotary actuator with emergency control function for butterfly valves

- Torque 15 Nm
- Nominal voltage AC/DC 24 V
- · Control: Open/close
- · 2 auxiliary switches
- ARF24-S-5: Deenergised NC ARF24-S-5-O: Deenergised NO



Technical data			
Electrical data	Nominal voltage		AC 24 V, 50/60 Hz DC 24 V
	Power supply range		AC 19.2 28.8 V DC 21.6 28.8 V
	Power consumption	Spring return Holding position For wire sizing	6.5 W at nominal torque 2.5 W 11 VA
	Auxiliary switch		2 x SPDT, 6 (3) A, AC 250 V II □ Switching points: 10% ≺ fixed, 28 94% ≺ adjustable
	Connection	Motor Auxiliary switch	Cable 1 m, 2 x 0.75 mm ² Cable 1 m, 6 x 0.75 mm ²
	Parallel connection	•	Yes (Note performance data for supply!)
Functional data	Torque (nominal torque)	Motor Spring return	Min. 15 Nm at nominal voltage Min. 15 Nm
	Direction of rotation	ARF24-S-5 ARF24-S-5-O	Deenergised NC, butterfly valve closed (A – AB = 0%) Deenergised NO, butterfly valve open (A – AB = 100%)
	Manual override		With hand crank, can be fixed in any position
	Angle of rotation		95° <i><</i>
	Running time	Motor Spring return	150 s ~16 s at –20 50°C / max. 60 s at –30°C
	Noise level	Motor Spring return	Max. 45 dB (A) ~62 dB (A)
	Service life		Min. 60'000 emergency settings
	Position indication		Mechanical
Safety	Protection class		III Extra low voltage
	Degree of protection		IP54
	EMC Low voltage directive Mode of operation Rated impulse voltage Control pollution degree Ambient temperature range Media temperature Non-operating temperature Ambient humidity range Maintenance		CE according to 89/336/EEC
			CE according to 2006/95/EC
			Type 1 (to EN 60730-1)
			0.8 kV (to EN 60730-1)
			3 (to EN 60730-1)
			−30 +50°C
			+5 +100°C (in butterfly valve)
			−40 +80°C
			95% r.H., non-condensating (to EN 60730-1)
			Maintenance-free
Dimensions / Weight	Dimensions		See «Dimensions» on page 2
	Weight		Approx. 2.7 kg (without butterfly 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 may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.

Rotary actuator with emergency control function and two auxiliary switches, AC/DC 24 V, 4 Nm



Safety notes

(Continued)

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 butterfly valve to its normal working position while tensioning the return spring at the same time. If the power supply is interrupted, the energy stored in the spring moves the butterfly valve back to its safe position.

Simple direct mounting

Simple direct mounting on the butterfly valve with two screws. The mounting position in relation to the butterfly valve can be selected in 90°

steps.

Manual override

The butterfly valve can be manually operated and fixed in any position using a hand crank. Release of the locking mechanism can be achieved manually or automatically by applying the supply voltage.

High functional reliability

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

Signalling

The actuator has one adjustable auxiliary switch and one auxiliary switch with a fixed setting. They permit a 10% ✓ or 28 ... 94% ✓ angle of rotation to be signalled.

Combination butterfly valves actuators

Refer to the butterfly valve documentation for suitable butterfly valves, their permitted media temperatures and closing pressures.

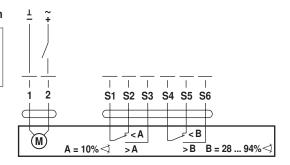
Electrical installation

Wiring diagram

Note

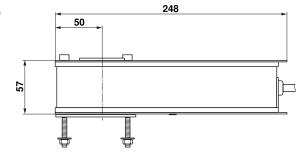
Connect via safety isolation transformer.

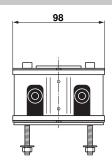
Parallel connection of other actuators possible.
 Note performance data for supply.



Dimensions [mm]

Dimensional diagrams

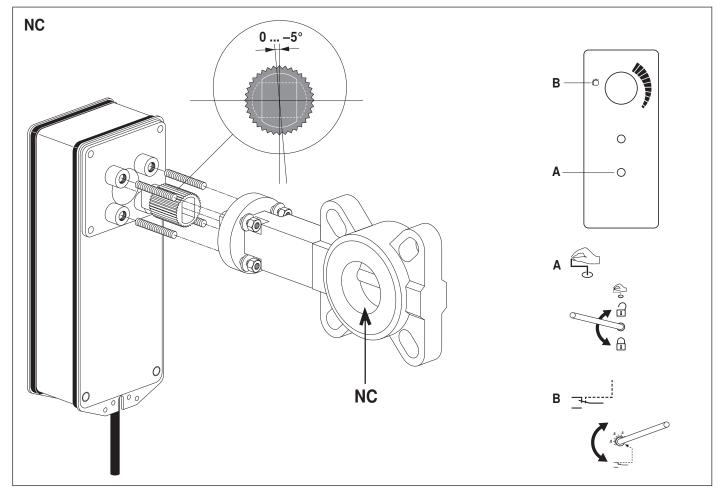


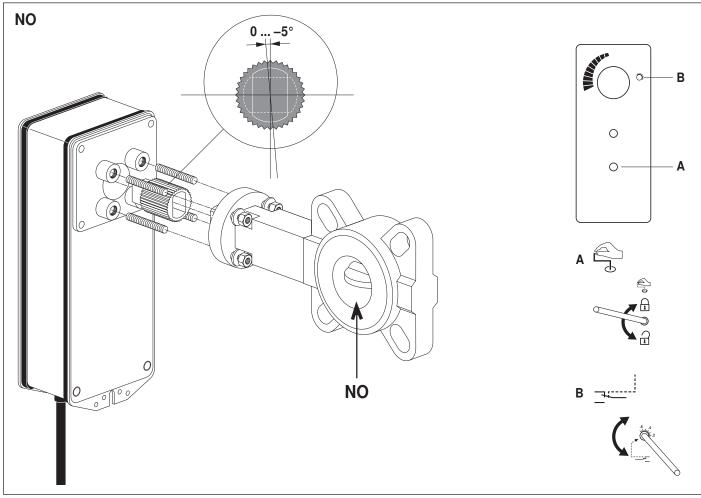


Further documentations

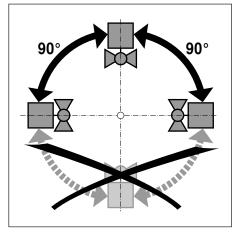
- · Complete overview of actuators for water solutions
- Data sheets for butterfly valves
- Installation instructions for actuators and/or butterfly valves
- Notes for project planning (hydraulic characteristic curves and circuits, installation regulations, commissioning, maintenance etc.)

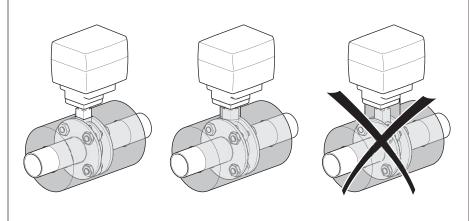




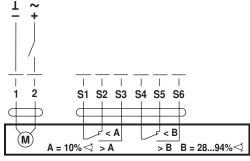








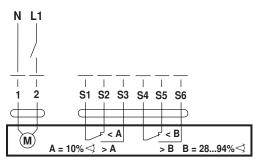
AC 24 V



ARF24-S-5 (-O)

AC 230 V

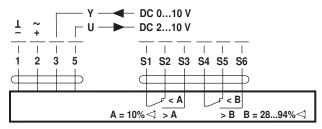




ARF230-S-5 (-O)



AC 24 V / DC 24 V



ARF24-SR-S-5 (-O)

