

Rotary actuator for ball valves

- Torque motor 20 Nm
- Nominal voltage AC/DC 24 V
- · Control Open/close, 3-point



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Technical data			
Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Nominal voltage range	AC 19.228.8 V / DC 19.228.8 V	
	Power consumption in operation	2.5 W	
	Power consumption in rest position	0.2 W	
	Power consumption for wire sizing	5.5 VA	
	Connection supply / control	Cable 1 m, 3 x 0.75 mm ²	
	Parallel operation	Yes (note the performance data)	
Functional data	Torque motor	20 Nm	
	Manual override	with push-button, can be locked	
	Running time motor	90 s / 90°	
	Sound power level, motor	45 dB(A)	
	Position indication	Mechanically, pluggable	
Safety	Protection class IEC/EN	III Safety Extra-Low Voltage (SELV)	
	Protection class UL	UL Class 2 Supply	
	Degree of protection IEC/EN	IP54	
	Degree of protection NEMA/UL	NEMA 2	
	Enclosure	UL Enclosure Type 2	
	EMC	CE according to 2014/30/EU	
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14	
	Certification UL	cULus according to UL60730-1A, UL60730-2- 14 and CAN/CSA E60730-1:02	
	Certification UL note	The UL marking on the actuator depends on the production site, the device is UL-compliant in any case	
	Mode of operation	Type 1	
	Rated impulse voltage supply / control	0.8 kV	
	Control pollution degree	3	
	Ambient temperature	-3050°C	
	Storage temperature	-4080°C	
	Ambient humidity	Max. 95% r.H., non-condensing	
	Servicing	maintenance-free	

Weight

Weight

1.9 kg



Safety notes



- This device has been designed for use in stationary heating, ventilation and airconditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Outdoor application: only possible in case that no (sea) water, snow, ice, insolation
 or aggressive gases interfere directly with the actuator and that is ensured that the
 ambient conditions remain at any time within the thresholds according to the data
 sheet.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- The switch for changing the direction of rotation may only be operated by authorised specialists. The direction of rotation must not in particular 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.
- · Cables must not be removed from the device.
- The device contains electrical and electronic components and must not 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 central screw. The assembly tool is integrated in the plug-in position indication. The mounting orientation 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 protected, requires no limit switches and automatically stops when the end stop is reached.

Accessories

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Description	Туре	
Auxiliary switch 1 x SPDT add-on	S1A	
Auxiliary switch 2 x SPDT add-on	S2A	
Feedback potentiometer 140 Ω add-on	P140A	
Feedback potentiometer 200 Ω add-on	P200A	
Feedback potentiometer 500 Ω add-on	P500A	
Feedback potentiometer 1 kΩ add-on	P1000A	
Feedback potentiometer 2.8 kΩ add-on	P2800A	
Feedback potentiometer 5 kΩ add-on	P5000A	
Feedback potentiometer 10 kΩ add-on	P10000A	

Electrical installation



Notes

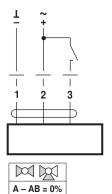
- · Connection via safety isolating transformer.
- Parallel connection of other actuators possible. Observe the performance data.
- Direction of rotation switch is covered. Factory setting: Direction of rotation Y2.



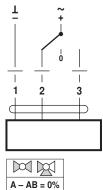
Electrical installation

Wiring diagrams

AC/DC 24 V, open/close



AC/DC 24 V, 3-point



Cable colours:

1 = black

2 = red3 = white

Dimensions [mm]

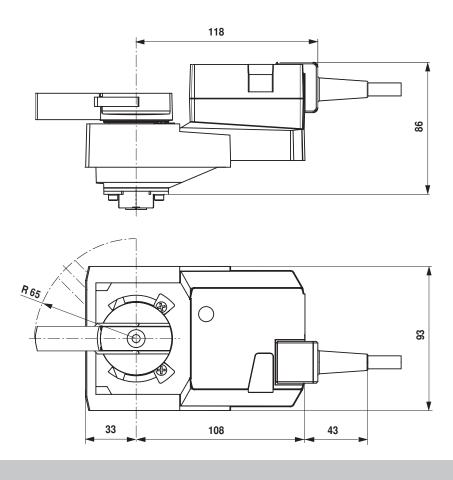
Dimensional drawings

Cable colours:

1 = black

3 = white

2 = red



Further documentation

- The complete product range for water applications
- Data sheets for ball valves
- Installation instructions for actuators and/or ball valves
- · General notes for project planning