

Rotary actuator with emergency control function for ball valves

- Nominal torque 4 Nm
- · Nominal voltage AC/DC 24 V
- Control Open-close
- Deenergised open (NO)
- · with 2 integrated auxiliary switches



Technical data

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Nominal voltage	AC/DC 24 V		
Nominal voltage frequency	50/60 Hz		
Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V		
Power consumption in operation	5 W		
Power consumption in rest position	2.5 W		
Power consumption for wire sizing	7 VA		
Auxiliary switch	2 x SPDT, 1 x 10° / 1 x 85°		
Switching capacity auxiliary switch	1 mA3 (0.5 inductive) A, AC 250 V		
Connection supply / control	Cable 1 m, 2 x 0.75 mm ²		
Connection auxiliary switch	Cable 1 m, 6 x 0.75 mm ²		
Parallel operation	Yes (note the performance data)		
Torque motor	Min. 4 Nm		
Torque spring return	Min. 4 Nm		
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Functional data

Parallel operation	Yes (note the performance data)		
Torque motor	Min. 4 Nm		
Torque spring return	Min. 4 Nm		
Direction of rotation spring-return	Deenergised NO, valve open (A - AB = 100%)		
Manual override	with hand crank, can be fixed in any position		
Angle of rotation	95°		
Running time motor	75 s / 90°		
Running time emergency control position	<20 s / 90°		
Sound power level motor	50 dB(A)		
Position indication	Mechanical		
Service life	Min. 60,000 emergency positions		
Protection class IEC/EN	III Safety extra-low voltage		
Protection class auxiliary switch IEC/EN	II Protective insulated		
Degree of protection IEC/EN	IP54		

Safety

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Protection class IEC/EN	III Safety extra-low voltage		
Protection class auxiliary switch IEC/EN	II Protective insulated		
Degree of protection IEC/EN	IP54		
EMC	CE according to 2014/30/EU		
Low voltage directive	CE according to 2014/35/EU		
Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14		
Mode of operation	Type 1		
Rated impulse voltage supply / control	0.8 kV		
Rated impulse voltage auxiliary switch	2.5 kV		
Control pollution degree	3		
Ambient temperature	-3050°C		
Non-operating temperature	-4080°C		
Ambient humidity	95% r.h., non-condensing		
Maintenance	Maintenance-free		
Weight	1.5 kg		

Weight

Safety notes



- This device has been designed for use in stationary heating, ventilation and air conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied 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.
- · Cables must not be removed from the device.



Safety notes

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

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

the return spring. The valve is turned back to the emergency position by spring force

when the supply voltage is interrupted.

Simple direct mounting Simple direct mounting on the ball valve with only one screw. The mounting orientation

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

Manual override The valve can be manually operated and fixed in any position using a hand crank.

Unlocking is carried out manually or automatically by applying the operating voltage.

High functional reliability
The actuator is overload protected, requires no limit switches and automatically stops

when the end stop is reached.

Signalling The actuator has two auxiliary switches with fixed settings. They permit a 10° or 85°

angle of rotation to be signaled.

Electrical installation

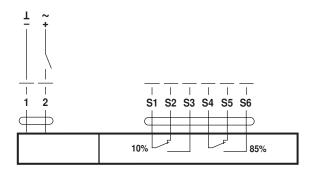


Notes

- · Connection via safety isolating transformer.
- Parallel connection of other actuators possible. Observe the performance data.

Wiring diagrams

AC/DC 24 V, open-close



Cable colours:

1 = black

2 = red S1 = violet

S2 = red

S3 = white

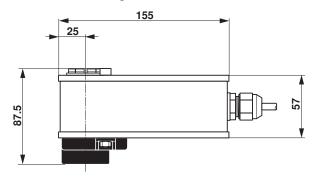
S4 = orange

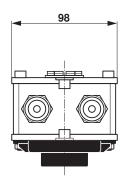
S5 = pink

S6 = grey

Dimensions [mm]

Dimensional drawings





Further documentation

- · Overview Valve-actuator combinations
- · Data sheets for ball valves
- · Installation instructions for actuators and/or ball valves
- · General notes for project planning