

Modulating rotary actuator with fail-safe for ball valves

- Torque motor 4 Nm
- Nominal voltage AC/DC 24 V
- Control modulating 2...10 V
- Position feedback 2...10 V
- Deenergised closed (NC)



Technical data

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Parallel operation	Yes (note the performance data)
Connection supply / control	Cable 1 m, 4x 0.75 mm ²
Power consumption for wire sizing	5 VA
Power consumption in rest position	1 W
Power consumption in operation	2.5 W
Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
Nominal voltage frequency	50/60 Hz
Nominal voltage	AC/DC 24 V

Functional data

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Torque motor	4 Nm
Torque fail-safe	4 Nm
Operating range Y	210 V
Input impedance	100 kΩ
Position feedback U	210 V
Position feedback U note	Max. 0.5 mA
Direction of motion motor	Y = 0 (0 V = A – AB = 0%)
Direction of motion fail-safe	Deenergised NC, valve closed (A – AB = 0%)
Direction of motion note	for valves with L-bore (A – AB = 100%)
Manual override	with hand crank, can be fixed in any position
Running time motor	150 s / 90°
Running time fail-safe	<20 s @ -2050°C / <60 s @ -30°C
Sound power level, motor	30 dB(A)
Position indication	Mechanical
Service life	Min. 60'000 fail-safe positions
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Safety data

Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)
Degree of protection IEC/EN	IP54
EMC	CE according to 2014/30/EU
Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
Type of action	Type 1
Rated impulse voltage supply / control	0.8 kV
Pollution degree	3
Ambient humidity	Max. 95% RH, non-condensing
Ambient temperature	-3050°C [-22122°F]
Storage temperature	-4080°C [-40176°F]
Servicing	maintenance-free
Weight	1 5 kg

Weight



Technical data

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.
- Outdoor application: only possible in case that no (sea) water, snow, ice, insolation or
 aggressive gases interfere directly with the device and that it is ensured that the ambient
 conditions remain within the thresholds according to the data sheet at any time.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with 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.
- 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

Operating mode

The actuator is connected with a standard control signal 0...10 V. 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 fail-safe 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.

Electrical installation



Supply from isolating transformer.

Parallel connection of other actuators possible. Observe the performance data.

Wire colours:

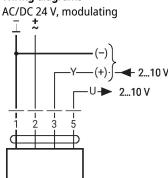
1 = black

2 = red

3 = white

5 = white

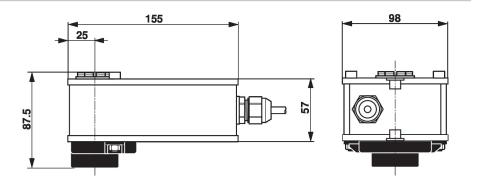
Wiring diagrams







Dimensions



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