

Technical data sheet

Rotary actuator with emergency control function for ball valves • Nominal torgue 20 Nm

- Nominal torque 20 Nm
- Nominal voltage AC/DC 24 V
- Control Open-close
- with 2 integrated auxiliary switches
- Deenergised open (NO)



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 21.628.8 V
	Power consumption in operation	5 W
	Power consumption in rest position	2.5 W
	Power consumption for wire sizing	7.5 VA
	Auxiliary switch	2 x SPDT, 1 x 10% / 1 x 1190%
	Switching capacity auxiliary switch	1 mA3 (0.5) 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)
Functional data	Torque motor	Min. 20 Nm
	Torque spring return	Min. 20 Nm
	Direction of rotation spring-return	Deenergised NO, valve open (A - AB = 100%)
	Manual override	By means of hand crank and locking switch
	Angle of rotation	90°
	Running time motor	75 s / 90°
	Running time emergency setting position	<20 s / 90°
	Sound power level motor max.	45 dB(A)
	Position indication	Mechanical
	Service life	Min. 60,000 emergency positions
Safety	Protection class IEC/EN	III Safety extra-low voltage
	Protection class UL	UL Class 2 Supply
	Protection class auxiliary switch IEC/EN	II Protective insulated
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2, UL Enclosure Type 2
	EMC	CE according to 2004/108/EC
	Low voltage directive	CE according to 2006/95/EC
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	Certification UL	cULus according to UL 60730-1A, UL 60730-2-
		14 and CAN/CSA E60730-1:02
	Mode of operation	Type 1.AA.B
	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	Weight approx.	2.5 kg

Safety notes



This device 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.
Only authorised specialists may carry out installation. All applicable legal or

institutional installation regulations must be complied during installation.

Rotary spring-return actuator, Open-close, AC/DC 24 V, 20 Nm, with 2 integrated auxiliary switches



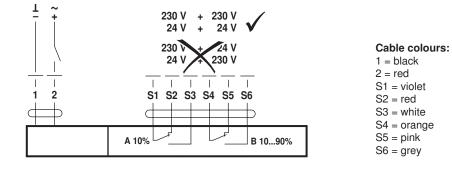
Safety notes			
	 The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user. Cables must not be removed from the device. The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed. The two switches integrated in the actuator are to be operated either on power supply voltage or at safety extra-low voltage. The combination power supply voltage/ safety extra-low voltage is not permitted. 		
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.		
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	Manual actuation of the valve with manual elevator crank, engagement with the locking switch at any position. Unlocking is manual or automatic 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.		
Adjustable angle of rotation	Adjustable angle of rotation with mechanical end stop.		
Flexible signalization	The actuator has one auxiliary switch with a fixed setting and one adjustable auxiliary switch. They permit a 10% or 1190% angle of rotation to be signaled.		

Electrical installation

Notes	 Connection via safety isolating transformer. Parallel connection of other actuators possible. Observe the performance data.
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Wiring diagrams

AC/DC 24 V, open-close



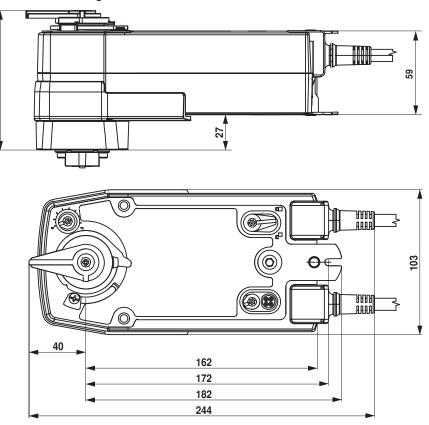
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Dimensions [mm]

Dimensional drawings

101



Further documentation

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