

Technical data sheet

Modulating rotary actuator for ball valves

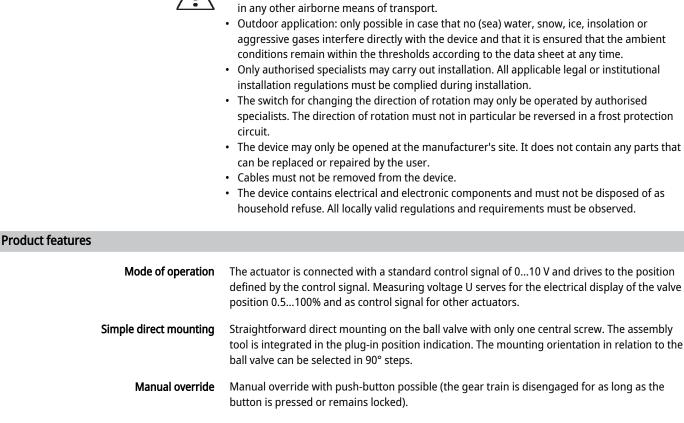
- Torque motor 10 Nm
- Nominal voltage AC/DC 24 V
- Control modulating 2...10 V
- Position feedback 2...10 V
- Running time motor 35 s



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	0.4 W	
	Power consumption for wire sizing	5 VA	
	Connection supply / control	Cable 1 m, 4 x 0.75 mm ²	
	Parallel operation	Yes (note the performance data)	
Functional data	Torque motor	10 Nm	
	Operating range Y	210 V	
	Input impedance	100 kΩ	
	Position feedback U	210 V	
	Position feedback U note	Max. 1 mA	
	Position accuracy	±5%	
	Manual override	with push-button, can be locked	
	Running time motor	35 s / 90°	
	Sound power level, motor	55 dB(A)	
	Position indication	Mechanical, pluggable	
Safety data	Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)	
	Power source 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	
	UL Approval	cULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1	
		The UL marking on the actuator depends on	
		the production site, the device is UL-compliant	
		in any case	
	Type of action	Туре 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	Weight	0.74 kg	





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

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

Electrical accessories	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 k Ω add-on	P1000A
	Feedback potentiometer 2.8 kΩ add-on	P2800A
	Feedback potentiometer 5 k Ω add-on	P5000A
	Feedback potentiometer 10 k Ω add-on	P10000A

Electrical installation



Supply from isolating transformer.

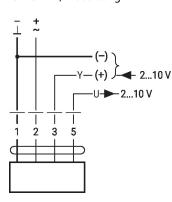
Parallel connection of other actuators possible. Observe the performance data. Direction of rotation switch is covered. Factory setting: Direction of rotation Y2.

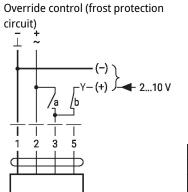
Wire colours:

- 1 = black 2 = red
- 3 = white
- 5 = orange



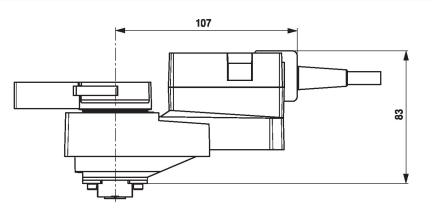
Wiring diagrams AC/DC 24 V, modulating

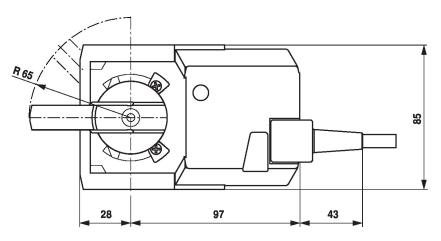




1	2	3 (a)	3 (b)	M M
~	7	7	ľ	A - AB = 100%
~	7	_/L	_∕_	A - AB = 0%
~	7	_/_	7	210 V

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