

Technical data sheet

Rotary actuator for rotary valves and butterfly valves

- Torque motor 40 Nm
- Nominal voltage AC/DC 24 V
- Control Open/close
- Running time motor 35 s
- Optimum weather protection for use outdoors



Technical data

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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	8 W
	Power consumption in rest position	2.5 W
	Power consumption for wire sizing	11 VA
	Connection supply / control	Cable 1 m, 3 x 0.75 mm ² (halogen-free)
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	40 Nm
	Manual override	with push-button, can be locked
	Running time motor	35 s / 90°
	Sound power level, motor	35 dB(A)
	Position indication	Yes
Safety data	Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)
	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP66/67
	Degree of protection NEMA/UL	NEMA 4X
	Enclosure	UL Enclosure Type 4X
	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
	Mode of operation	Type 1
	Rated impulse voltage supply / control	0.8 kV
	Pollution degree	4
	Ambient humidity	Max. 100% RH
	Ambient temperature	-3050°C [-22122°F]
	Ambient temperature note	-4050°C for actuator with integrated heating
	Storage temperature	-4080°C [-40176°F]
	Servicing	maintenance-free
Mechanical data	Connection flange	F05
Weight	Weight	3.3 kg



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		 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. Junction boxes must at least correspond with enclosure IP degree of protection! The cover of the protective housing may be opened for adjustment and servicing. When it is closed afterwards, the housing must seal tight (see installation instructions). 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 angle of rotation is not permitted to be subjected to mechanical limitation. It is forbidden to alter the mechanical end stops. 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. 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. The actuator may not be used in plenary applications (e.g. suspended ceilings or raised floors). The materials used may be subject to external influences (temperature, pressure, construction fastening, effect of chemical substances, etc.), which cannot be simulated in laboratory tests or field trials. In case of doubt, we definitely recommend that you carry out a test. This information does not imply any legal entitlement. Belimo will not be held liable and will provide no warranty. Flexible metallic cable conduits or threaded cable conduits of equal value are to be used for UL (NEMA) Type 4X applications.
Product features		
	Fields of application	The actuator is particularly suitable for utilisation in outdoor applications and is protected against the following weather conditions:

- UV radiation
- Rain / Snow
- Dirt / Dust
- Air humidity

- Alternating climate / frequent and severe temperature fluctuations (Recommendation: use the actuator with integrated factory-installed heating which can be ordered separately to prevent internal condensation)

Simple direct mounting Simple direct mounting on the rotary valve or butterfly valve with mounting flange. The mounting orientation in relation to the fitting can be selected in 90° steps.

Manual override Manual override with push-button possible (the gear train is disengaged for as long as the button is pressed or remains locked).

The housing cover must be removed for manual override.

- Adjustable angle of rotationAdjustable angle of rotation with mechanical end stops. Standard setting 0...90°. The housing
cover must be removed to set the angle of rotation.
 - **High functional reliability** The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.



Electrical accessories	Description	Туре
	Auxiliary switch 2 x SPDT add-on, grey	S2A GR
	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 kΩ add-on	P10000A
Options ex works only	Description	Туре
	Heater, with adjustable thermostat	HT24-MG
	Heater, with mechanical humidistat	HH24-MC

Electrical installation



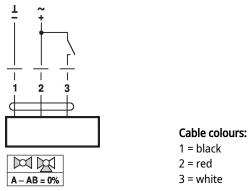
Supply from isolating transformer.



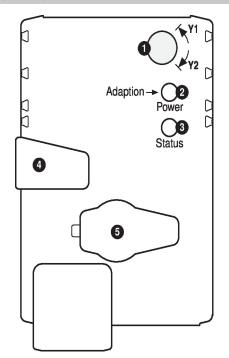
Parallel connection of other actuators possible. Observe the performance data. Direction of rotation switch is covered. Factory setting: Direction of rotation Y2.

Wiring diagrams

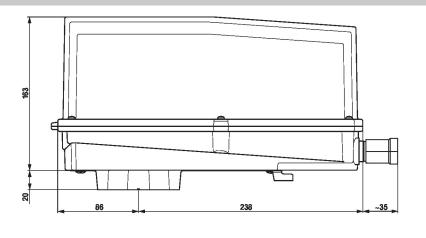
AC/DC 24 V, open/close

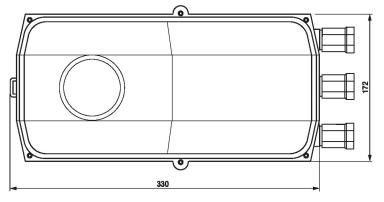


Operating controls and indicators









Further documentation

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