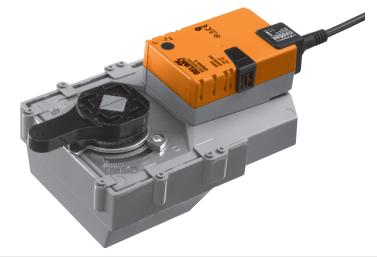


Technical data sheet

Modulating rotary actuator for butterfly valves with mounting flange ISO 5211-F05

- Torque 40 Nm
- Nominal voltage AC/DC 24 V
- Control: modulating DC 0 ... 10 V
 Position feedback DC 2 ... 10 V



Technical data

Electrical data	Nominal voltage	AC 24 V, 50/60 Hz / DC 24 V
	Nominal voltage range	AC 19.2 28.8 V / DC 21.6 28.8 V
	Power consumption In operation	4.5 W @ nominal torque
	At rest	1.5 W
	For wire sizing	6.5 VA
	Connection	Cable 1 m, 4 x 0.75 mm ²
	Parallel operation	Possible, note the performance data
Functional data	Torque (nominal torque)	Min. 40 Nm @ nominal voltage
	Control Control signal Y	DC 0 10 V, typical input impedance 100k Ω
	Operating range	DC 2 10 V
	Position feedback	DC 2 10 V, max. 1 mA (Measuring voltage U)
	Position accuracy	±5%
	Manual override	Gearing latch disengaged with pushbutton, can be locked
	Angle of rotation	Max. 95°⊄ at 10 V 90°⊄ at 9.7 9.75 V
	Running time	150 s / 90°∢
	Sound power level	Max. 45 dB (A) (without butterfly valve)
	Position indication	Mechanical, pluggable
Safety	Protection class	III Safety extra-low voltage / UL Class 2 Supply
	Degree of protection	IP54 in any mounting position NEMA 2, UL Enclosure Type 2
	EMC	CE in accordance with 2004/108/EU
	Certification	cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation	Туре 1
	Rated impulse voltage	0.8 kV
	Control pollution degree	3
	Ambient temperature	0 +50°C
	Medium temperature	-20 +120 °C in the butterfly valve
	Non-operating temperature	-40 +80°C
	Ambient humidity	95% r.h., non-condensating
	Maintenance	Maintenance-free
Dimensions / Weight	Dimensions	See «Dimensions» on page 2
	Weight	Approx. 2.5 kg

Safety notes

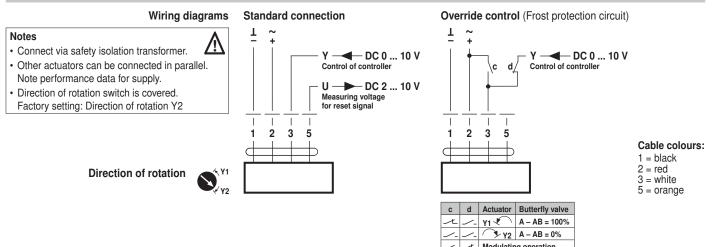
Modulating rotary actuator, AC/DC 24 V, 40 Nm, for butterfly valves with mounting flange F05



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	 The actuator 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. It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly. The switch for changing the direction of rotation may only be operated by authorised personnel. The direction of rotation must not be reversed in a frost protection circuit. 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 cable 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.
Product features	
Mode of operation	The actuator is controlled with a standard modulating signal of DC 0 10 V and travels to the position defined by the control signal. Measuring voltage U serves for the electrical display of the actuator position 0 100% and as slave control signal for other actuators.
Simple direct mounting	Simple direct mounting on a butterfly valve with ISO 5211-F05 mounting flange. The mounting position in relation to the butterfly valve can be selected in 90° steps.
Manual override	Manual override with push-button possible (the gear is disengaged for as long as the button is pressed or remains locked).
Adjustable angle of rotation	Adjustable angle of rotation with mechanical end stops.
High functional reliability	The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.
Accessories	

	Description	Data sheet
Electrical accessories	Auxiliary switch SA	T2 - SA
	Feedback potentiometer PA	T2 - PA

Electrical installation



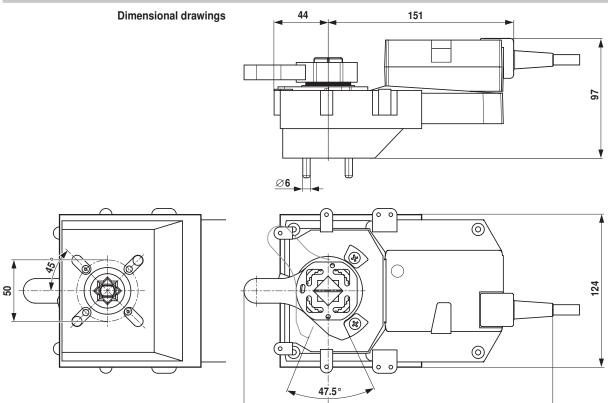
✓_ ✓L Modulating operation

Modulating rotary actuator, AC/DC 24 V, 40 Nm, for butterfly valves with mounting flange F05

183



Dimensions [mm]



69

Further documentations	 Complete overview «The complete range of water solutions» Data sheets for butterfly valves Installation instructions for actuators and/or butterfly valves, respectively Notes for project planning (hydraulic characteristic curves and circuits, installation regulations, commissioning, maintenance. etc.) 	
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