

## **Technical data sheet**

Rotary actuator for butterfly valves for outdoor applications

- Torque 90 Nm (not constant)
- Nominal voltage AC/DC 24 V
- Control: Open-close
- IP66
- Optimum protection against
- moisture
- UV radiation
- dirt and dust



## 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	9 W @ nominal torque
	At rest	2 W
	For wire sizing	12 VA
	Connection	Terminals 4 mm <sup>2</sup> (cable $\varnothing$ 4 10 mm)
	Parallel operation	No
Functional data	Torque	≤90 Nm @ nominal voltage (not constant)
	Manual override	Gearing latch disengaged with push-button, can be locked
	Running time	≤35 s / 90°∢
	Sound power level	≤62 dB (A) (without butterfly valve)
	Position indication	Yes
Safety	Protection class	III Safety extra-low voltage UL Class 2 Supply
	Degree of protection	IP66
		NEMA 4, UL Enclosure Type 4
	EMC	CE according to 2004/108/EC
	Certification	Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02
	Mode of operation	Туре 1
	Rated impulse voltage	0.8 kV
	Control pollution degree	4
	Ambient temperature	-30 +50 ° C
	Medium temperature	-20 +120 °C (in the butterfly valve)
	Non-operating temperature	−40 +80°C
	Ambient humidity	100% r.h.
	Maintenance	Maintenance-free
Dimensions / weight	Dimensions	See «Dimensions» on page 3
-	Weight	Approx. 4.7 kg (without butterfly valve)

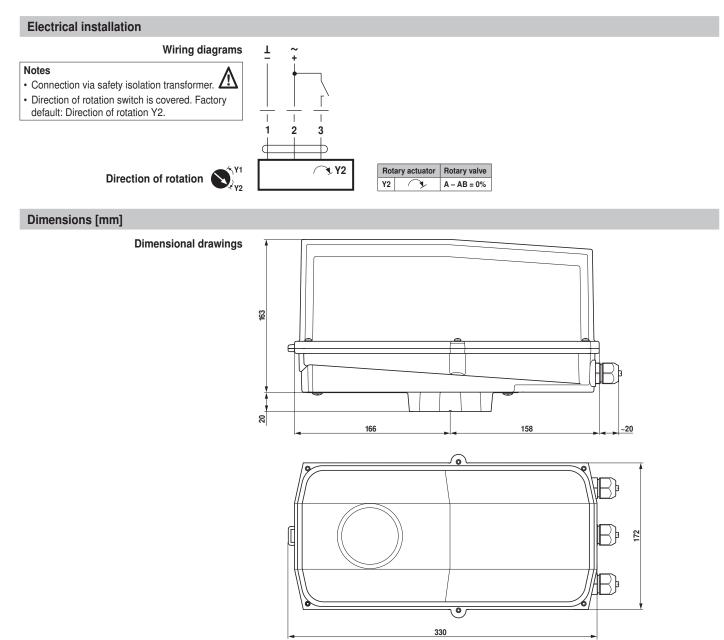
Rotary actuator for butterfly valves for outdoor applications, AC/DC 24 V, 90  $\rm Nm$ 



Safety notes		
	<ul> <li>The actuator has been designed for use in stationary heating, systems and is not allowed to be used outside the specified fie aircraft or in any other airborne means of transport.</li> <li>It may only be installed by suitably trained personnel. Any legatissued by authorities must be observed during assembly.</li> <li>The switch for changing the direction of rotation may not be action at the mechanical end stops.</li> <li>The cover of the protective housing may be opened for adjusting closed afterwards, the housing must seal tight.</li> <li>The device on the inside may only be opened up in the factory, that can be replaced or repaired by the user.</li> <li>The device contains electrical and electronic components and disposed of as household refuse. All locally valid regulations a observed.</li> <li>The actuator is not designed for applications where chemical i present or for utilisation in corrosive environments (e.g. seawa).</li> <li>Because of its non-constant torque, the actuator is neither suit motorisation with valves from other manufacturers. No legal environments even after extensive testing. Belimo will not be held liable and</li> <li>The actuator may not be used in plenary applications (e.g. sus floors).</li> <li>The materials used may be subjected to external influences (te constructional fixture), that cannot be simulated in laboratory doubt, we definitely recommend that you carry out a test. This information does not however imply any legal entitlement and will provide no warranty.</li> <li>Cabling: flexible metallic cable conduits or threaded cable con cables are not certified for UL (NEMA) Type 4 applications.</li> </ul>	eld of application, especially in al regulations or regulations djusted. inical limitation. It is forbidden ment and servicing. When it is . It does not contain any parts is not permitted to be and requirements must be influences (gases, fluids) are ater coastal areas) in general. table nor released for ntitlement can be claimed, will provide no warranty. spended ceilings or raised emperature, pressure, test or field trials. In case of the Belimo will not be held liable
Product features		
Fields of application	<ul> <li>The actuator is particularly suitable for utilisation in outdoor applic the following weather conditions:</li> <li>UV radiation</li> <li>rain / snow</li> <li>dirt / dust</li> <li>humidity</li> <li>Changing atmosphere / frequent and severe temperature fluctu- use the actuator with integrated factory-installed heating which prevent internal condensation (see «Accessories»).</li> </ul>	ations (recommendation:
Simple direct mounting	Simple direct mounting on BELIMO butterfly valves with ISO 521 The mounting position in relation to the fitting can be selected in S	
Manual override	Manual override with push-button possible (the gear is disengage pressed or remains locked). The cover must be removed for this p	
High operational reliability	The actuator is overload-proof, requires no limit switches and autostop is reached.	omatically stops when the end
Accessories		
	Description	Data sheet
Electrical accessories	Auxiliary switch SA Feedback potentiometer P.A	T2 - SA T2 - PA
	Heating with mechanical hygrostat HH24-MG	T2/T5 - HH24-MG
	Heating with adjustable thermostat HT24-MG	T2/T5 - HT24-MG

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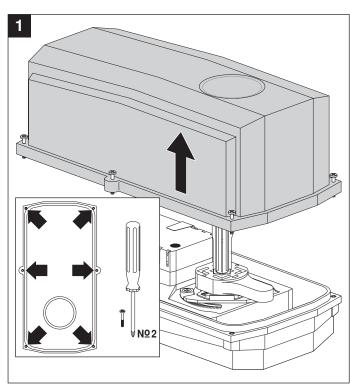


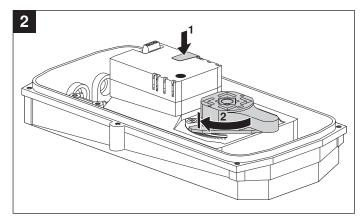


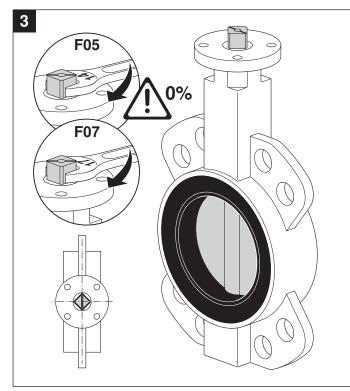
Further documen	<ul> <li>Complete overview «The complete product range of water solutions»</li> <li>Data sheets, butterfly valves</li> <li>Installation instructions for actuators and/or butterfly valves, respectively</li> <li>Notes for project planning (hydraulic characteristic curves and circuits, installation regulations commissioning, maintenance, etc.)</li> </ul>	\$,
www.belimo.com	T5-DRC24G-T-7 • en • v1.1 • 08.2011 • Subject to changes	3

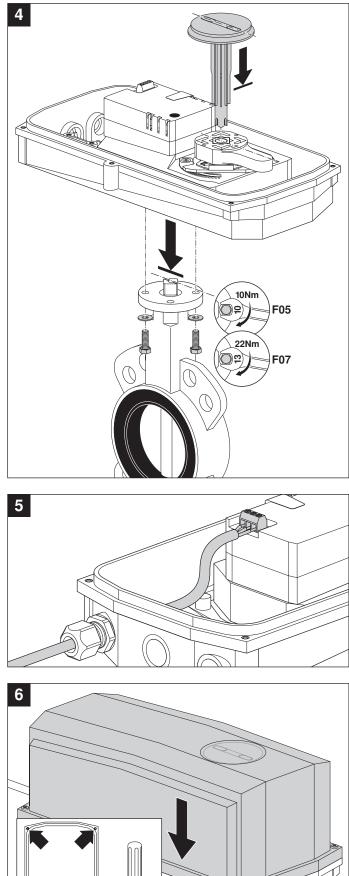










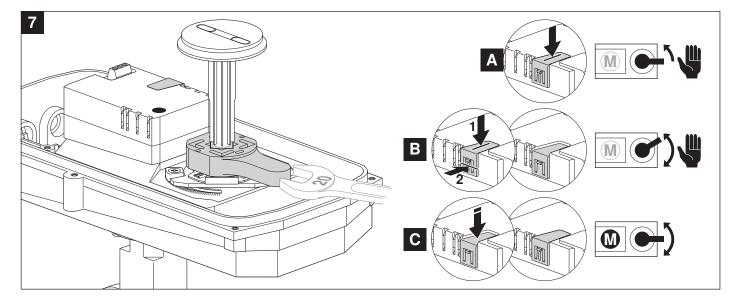


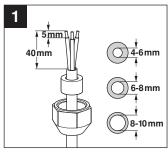
.5 Nm v N空 2

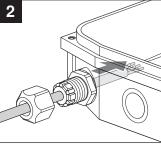
N

## DR..GX-.. / GR..GX-..

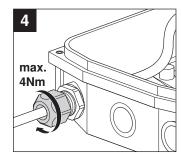




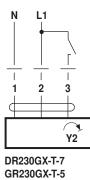




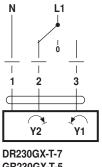
3



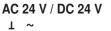
AC 230 V

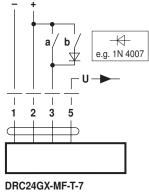


GR230GX-T-7



GR230GX-T-5 GR230GX-T-5





DRC24GX-MF-T-7 GRC24G(X)-MF-T-5

