

Technical data sheet

Parameterisable rotary actuator for butterfly valves with mounting flange ISO 5211-F07

- Torque 60 Nm
- Nominal voltage AC/DC 24 V
- Control: modulating DC 0 ... 10 V or variable
- Position feedback DC 2 ... 10 V or variable



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	3 W		
For wire sizing	14 VA		
Connection	2 x cable 1 m, 4 x 0.75 mm ²		
Functional data	Factory settings	Variable	Setting
Torque (nominal torque)	Min. 60 Nm @ nominal voltage		
Control Control signal Y	DC 0 10 V, input impedance 100 k Ω	Open-close / 3-point (only AC), modulating (DC 0 32 V)	
Operating range	DC 2 10 V	Starting pointDC 0.5 30 VEnd pointDC 2.5 32 V	
Position feedback (Measuring voltage U)	DC 2 10 V, max. 0.5 mA	Starting pointDC 0.5 8 VEnd pointDC 2.5 10 V	
Position accuracy	±5%		
Manual override	Not allowed		
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	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	3		
Ambient temperature	+0° +50°C		
Non-operating temperature	−40° +80°C		
Ambient humidity	95% r.h., non-condensating		
Maintenance	Maintenance-free		
Dimensions / Weight			
Dimensions	See «Dimensions» on page 4		
Weight	Approx. 5 kg		

Parameterisable rotary actuator, AC/DC 24 V, 60 Nm, for butterfly valves with mounting flange F07 $\,$



Safety notes		
Â	 The actuator has been designed for use in stationary systems and is not allowed to be used outside the sp aircraft or in any other airborne means of transport. It may only be installed by suitably trained personne issued by authorities must be observed during asse Because of the fact that it is mandatory that the two no synchronisation is permitted to be carried out. At – to press the gear disengagement push-button whe – to actuate the direction of rotation switch or – to adjust the end stops (0 90°<). The device may only be opened at the manufacturer can be replaced or repaired by the user. The cable must not be removed from the device. The device contains electrical and electronic comport of as household refuse. 	becified field of application, especially in el. Any legal regulations or regulations embly. actuators run in synchronised fashion, ccordingly it is not permitted en the actuator is carrying voltage, f's site. It does not contain any parts that
Product features		
Application	The actuator is used together with the BELIMO butterfl following mechanical specifications: – Square stem head, WAF 17 mm, for form-fit attachm – Hole circle (d = 70 mm) for assembly with the butterfl Adapters for other stem head dimensions available on	ent of the rotary actuator ly valve
Mode of operation	The actuator is controlled with a standard modulating s position defined by the control signal. Measuring voltage actuator position 0 100% and as slave control signal	ge U serves for the electrical display of th
Parameterisable actuators	The factory settings cover the most common applicatio parameters can be altered with the the BELIMO PC-To	
Simple direct mounting	Simple direct mounting on a butterfly valve with ISO 52 The mounting position in relation to the butterfly valve	
High functional reliability	The actuator is overload-proof, requires no limit switcher stop is reached.	es and automatically stops when the end
Restrictions	Because of the fact that it is mandatory that the two ac neither a manual synchronisation nor an adaption is pe «Safety notes»). But it is possible to alter the following signals with the E – Input signal (Y) in the master actuator – Output signal (U5) in the slave actuator	ermitted to be carried out (see also
Accessories		
	Description	Data sheet

Electrical accessories

Description	Data sheet
Auxiliary switch SA	T2 - SA
Feedback potentiometer P.A.	T2 - PA
BELIMO PC-Tool MFT-P	T2 - MFT-P
	Auxiliary switch SA Feedback potentiometer PA

Parameterisable rotary actuator, AC/DC 24 V, 60 Nm, for butterfly valves with mounting flange F07

🗕 DC 2 ... 10 V



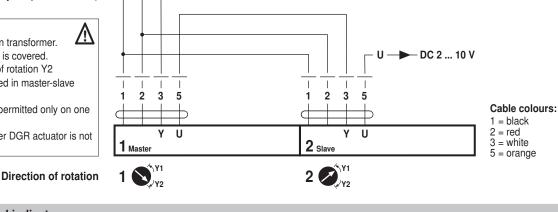
Electrical installation

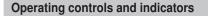
Piggyback operation wiring diagram (mechanically coupled actuators) T

v

Notes

- · Connect via safety isolation transformer.
- · Direction of rotation switch is covered.
- Factory setting: Direction of rotation Y2 · Two actuators are connected in master-slave operation.
- · Master-Slave operation is permitted only on one fixed axis.
- · Sequence control to another DGR actuator is not permitted.







Caution

In accordance with the information under «Safety notes» and «Restrictions», no operating controls may be actuated.



(1) Direction of rotation switch

Switching over: Direction of rotation changes

(2) Push-button and green LED display

Off:	No voltage supply or fault
On:	In operation
Press button:	Switches on angle of rotation adaptation followed by standard operation

(3) Push-button and yellow LED display Off:

Standard operation Adaptation or synchronising process active Press button: No function

(4) Gear disengagement switch

Press button: Gear disengaged, motor stops, manual override possible Release button: Gear engaged, synchronisation starts, followed by standard operation

(5) Service plug

On:

For connecting parameterising and service tools

Check voltage supply connection

- (2) Off and (3) On a)
- Check the supply connections.
- b) (2) Blinking and (3) Blinking Possibly \perp and $\widetilde{+}$ are swapped over.

Parameterisable rotary actuator, AC/DC 24 V, 60 Nm, for butterfly valves with mounting flange F07



Dimensions [mm]

2

4 / 4

