

Technical data sheet

RetroFIT+ rotary actuator for rotary valves and butterfly valves

- Torque motor 20 Nm Nominal voltage AC/DC 24 V Control Open/close



Picture may differ from product

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	5 W
	Power consumption in rest position	2.5 W
	Power consumption for wire sizing	7.5 VA
	Connection supply / control	Cable 1 m, 2x 0.75 mm ²
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	20 Nm
	Torque fail-safe	20 Nm
	Direction of motion fail-safe	selectable:
		Deenergised NC, valve closed (A – AB = 0%) Deenergised NO, valve open (A – AB = 100%)
	Manual override	by means of hand crank and locking switch
	Running time motor	75 s / 90°
	Running time fail-safe	<20 s @ -2050°C, <60 s @ -30°C
	Sound power level, motor	45 dB(A)
	Position indication	Mechanical
	Service life	Min. 60'000 fail-safe positions
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
	Housing	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, UL60730-2-1 and CAN/CSA E60730-1
		The UL marking on the actuator depends on the production site, the device is UL-complian in any case
	Type of action	Type 1.AA
	Rated impulse voltage supply / control	0.8 kV
	Pollution degree	3
	Ambient humidity	Max. 95% RH, non-condensing



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Safety data	Ambient temperature	050°C [32122°F]	
	Storage temperature	-4080°C [-40176°F]	
	Servicing	maintenance-free	
Mechanical data	Connection flange	F03/F04/F05	
Weight	Weight	2.2 kg	

Safety notes

Ĺ	 systems and must not be or in any other airborned. Outdoor application: or aggressive gases interfice conditions remain with Only authorised special installation regulations The device may only be can be replaced or repaired. Cables must not be removed. The device contains elemoved. 	be used outside the specified fie e means of transport. Any possible in case that no (sea ere directly with the device and in the thresholds according to the lists may carry out installation. must be complied with during e opened at the manufacturer's aired by the user. hoved from the device.	All applicable legal or institutional installation. site. It does not contain any parts that nts and must not be disposed of as
Product features			
Operating mode		s turned back to the fail-safe po	at the same time as tensioning the osition by spring force when the
Application	For rotary valves and but	terfly valves with the following	mechanical specifications:
		(hole circle diameter on the fla	
Tappet shaft	– ISO 5211: quadratic, flat head or wedge-shaped spindle head geometry		
Tapper Share	The form fit adapter is not included in the scope of delivery (see «Accessories»).ZSFVZSFFZSFK		
	S Type S ZSFV-08 8 ZSFV-09 9 ZSFV-10 10 ZSFV-12 12 ZSFV-14 14	s Type s	dg [mm] d7 [mm] 17 Imminical Sector
Simple direct mounting		on the rotary valve or butterfly v relation to the fitting can be sel	valve with mounting flange. The lected in 90° steps.
Manual override	By using the hand crank the valve can be operated manually and engaged with the locking switch at any position. Unlocking is carried out manually or automatically by applying the operating voltage.		
Adjustable angle of rotation	Adjustable angle of rotat	ion with mechanical end stops.	
High functional reliability	The actuator is overload the end stop is reached.	protected, requires no limit swi	itches and automatically stops when



Supply from isolating transformer.

Accessories

Mechanical accessories	Description	Туре
	Form fit adapter square 8x8x55 mm (LxWxH)	ZSFV-08
	Form fit adapter square 9x9x55 mm (LxWxH)	ZSFV-09
	Form fit adapter square 10x10x55 mm (LxWxH)	ZSFV-10
	Form fit adapter square 11x11x55 mm (LxWxH)	ZSFV-11
	Form fit adapter square 12x12x55 mm (LxWxH)	ZSFV-12
	Form fit adapter square 14x14x55 mm (LxWxH)	ZSFV-14
	Form fit adapter flat head 8xø17x55 mm (WxøxH)	ZSFF-08
	Form fit adapter flat head 9xø12x55 mm (WxøxH)	ZSFF-09
	Form fit adapter flat head 10xø17x55 mm (WxøxH)	ZSFF-10
	Form fit adapter flat head 11xø14x55 mm (WxøxH)	ZSFF-11
	Form fit adapter flat head 14xø18x55 mm (WxøxH)	ZSFF-14
	Form fit adapter wedge groove ø12x4x55 mm (øxWxH)	ZSFK-12
	Form fit adapter wedge groove ø14x5x55 mm (øxWxH)	ZSFK-14

Parallel connection of other actuators possible. Observe the performance data.

Electrical installation

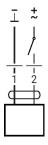


Wire colours:

1 = black 2 = red

2 100

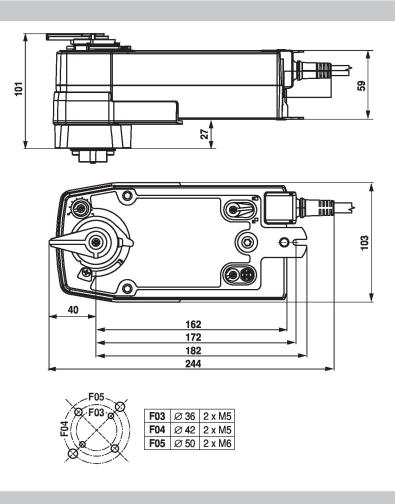
AC/DC 24 V, open/close



SRF24A-R • en-gb • 2025-06-03 • Subject to change



Dimensions



Further documentation

• General notes for project planning