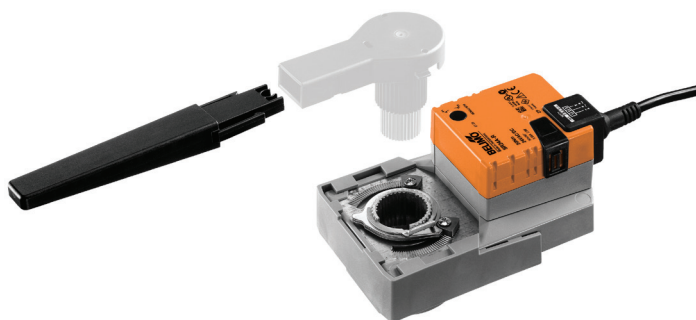


Retrofit rotary actuator for rotary valves and butterfly valves

- Nominal torque 20 Nm
- Nominal voltage AC 100...240 V
- Control Open-close, 3-point



RETROFIT®

Technical data

Electrical data	Nominal voltage	AC 100...240 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 85...265 V
	Power consumption in operation	3 W
	Power consumption at rest	0.4 W
	Power consumption for wire sizing	7 VA
	Connection supply	Cable 1 m, 3 x 0.75 mm ²
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	Min. 20 Nm
	Manual override	Gear disengagement with push-button, can be locked
	Running time motor	90 s / 90°
	Sound power level motor max.	45 dB(A)
	Position indication	Mechanical, integrated, two-section
Safety	Protection class IEC/EN	II totally insulated
	Protection class UL	II totally insulated
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2, UL Enclosure Type 2
	EMC	CE according to 2004/108/EC
	Low-voltage directive	CE according to 2006/95/EC
	Certification IEC/EN	Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14
	Certification UL	CULus according to UL 60730-1A, UL 60730-2-14 and CAN/CSA E60730-1:02
	Mode of operation	Type 1
	Rated current voltage supply	4 kV
	Control pollution degree	3
	Ambient temperature	0...50°C
	Non-operating temperature	-40...80°C
	Ambient humidity	95% r.h., non-condensing
	Maintenance	Maintenance-free
Mechanical data	Connection flange	F03/F04/F05
Weight	Weight approx.	0.9 kg

Safety notes



- This 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.
- Caution: Power supply voltage!
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- The switch for changing the direction of rotation may only be operated by authorized personnel. The direction of rotation must not in particular be reversed in a frost protection circuit.
- The surface temperature between actuator and fitting may not exceed 50°C.
- 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.

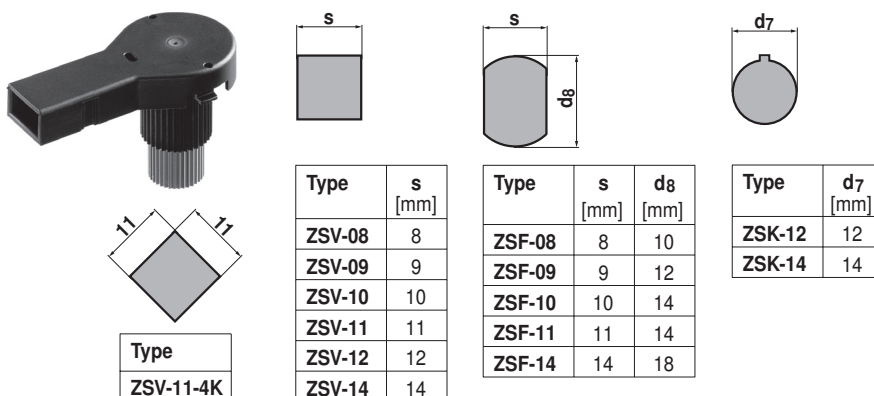
Safety notes

- 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

Application For rotary valves and butterfly valves with the following mechanical specifications:
 – ISO 5211: F03, F04, F05 (hole circle diameter on the flange for mounting the fitting)
 – ISO 5211: quadratic, flat head or wedge-shaped stem head geometry

Form fit adapter The form fit adapter is not included in the scope of delivery (see «Accessories»).



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

Manual override Manual operation is possible with the push-button (the gearing latch remains disengaged as long as the push-button is pressed or detented).

High functional reliability The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Adjustable angle of rotation Adjustable angle of rotation with mechanical end stops.

Position indication The two-section position indication (lever) can be reduced to 70 mm, the front part of the lever can be attached to the cable (clip).

Accessories

	Description	Type
Electrical accessories	Auxiliary switch, add-on, 1 x SPDT	S1A
	Auxiliary switch, add-on, 2 x SPDT	S2A
	Feedback potentiometer 140 Ohm, add-on	P140A
	Feedback potentiometer 200 Ohm, add-on	P200A
	Feedback potentiometer 500 Ohm, add-on	P500A
	Feedback potentiometer 1 kOhm, add-on	P1000A
	Feedback potentiometer 2.8 kOhm, add-on	P2800A
	Feedback potentiometer 5 kOhm, add-on	P5000A
	Feedback potentiometer 10 kOhm, add-on	P10000A
	Description	Type
Mechanical accessories	Form fit adapter SR, 8x8x57 mm	ZSV-08
	Form fit adapter SR, 9x9x57 mm	ZSV-09
	Form fit adapter SR, 10x10x57 mm	ZSV-10
	Form fit adapter SR, 11x11x57 mm	ZSV-11
	Form fit adapter SR, 11x11x57 mm (square)	ZSV-11-4K
	Form fit adapter SR, 12x12x57 mm	ZSV-12
	Form fit adapter SR, 14x14x57 mm	ZSV-14
	Form fit adapter SR, 8xØ17x57 mm	ZSF-08
	Form fit adapter SR, 9xØ12x57 mm	ZSF-09
	Form fit adapter SR, 10xØ17x57 mm	ZSF-10
	Form fit adapter SR, 11xØ14x57 mm	ZSF-11
	Form fit adapter SR, 14xØ18x57 mm	ZSF-14
	Form fit adapter SR, Ø12x4x57 mm	ZSK-12
	Form fit adapter SR, Ø14x5x57 mm	ZSK-14

Electrical installation

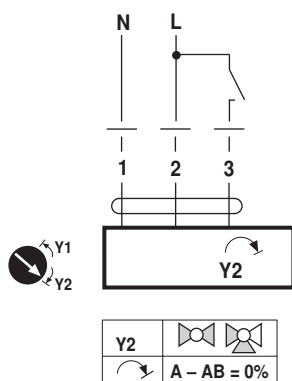


Notes

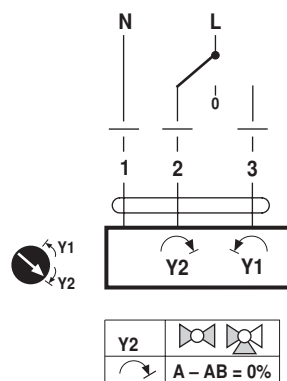
- Caution: Power supply voltage!
- Parallel connection of other actuators possible. Observe the performance data.
- Direction of rotation switch is covered. Factory setting: Direction of rotation Y2.

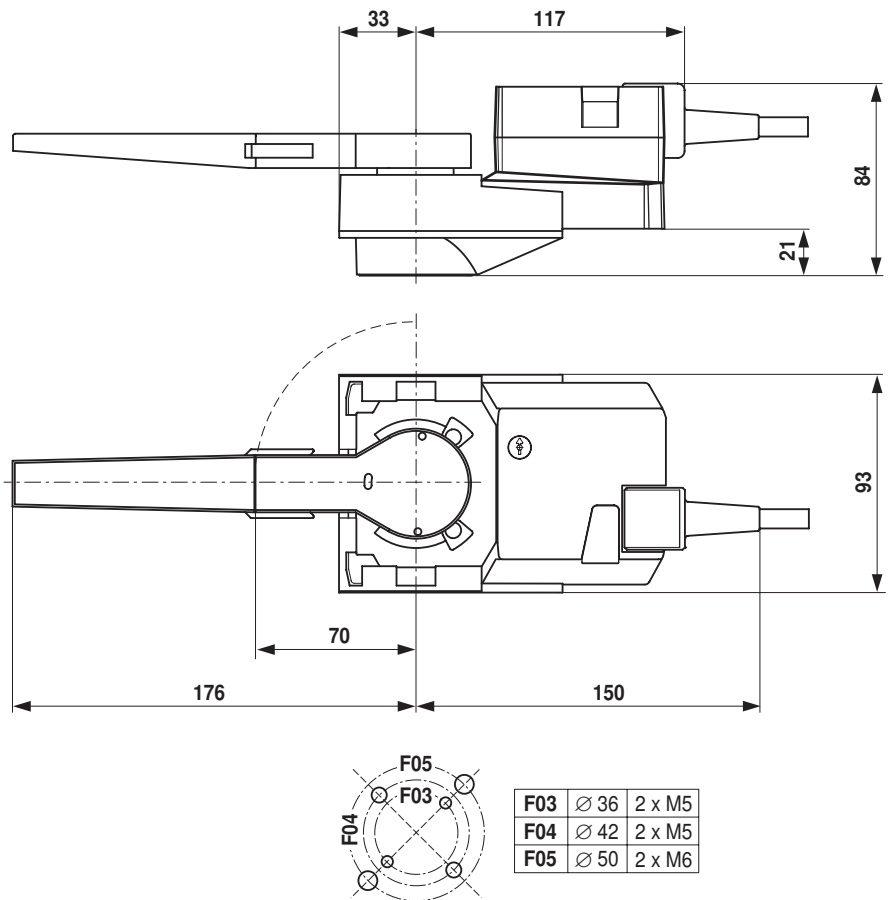
Wiring diagrams

AC 230 V, open-close



AC 230 V, 3-point



Dimensions [mm]
Dimensional drawings

Further documentation

- Overview Valve-actuator combinations
- Data sheets for rotary valves and butterfly valves
- Installation instructions for actuators and/or rotary valves and butterfly valves
- Notes for project planning for butterfly valves