

Globe valve actuator with fail-safe for 2-way and 3-way globe valves

- Actuating force 2000 N
- Nominal voltage AC 100...240 V
- Control 3-point
- Stroke 32 mm



Technical data

Electrical data	Nominal voltage	AC 100240 V		
	Nominal voltage frequency	50/60 Hz		
	Nominal voltage range	AC 85265 V		
	Power consumption in operation	3.5 W		
	Power consumption in rest position	1.5 W		
	Power consumption for wire sizing	6.5 VA		
	Connection supply / control	Cable 1 m, 4x 0.75 mm ²		
	Parallel operation	Yes (note the performance data)		
Functional data	Actuating force motor	2000 N		
	Setting fail-safe position	Stem retracted / extended, adjustable (POP		
		rotary knob)		
	Bridging time (PF)	2 s		
	Manual override	with push-button		
	Stroke	32 mm		
	Running time motor	150 s / 32 mm		
	Running time fail-safe	35 s / 32 mm		
	Sound power level, motor	60 dB(A)		
	Sound power level, fail-safe	60 dB(A)		
	Position indication	Mechanical, 532 mm stroke		
Safety data	Protection class IEC/EN	II, reinforced insulation		
	Power source UL	Class 2 Supply		
	Degree of protection IEC/EN	IP54		
	Degree of protection NEMA/UL	NEMA 2		
	Enclosure	UL Enclosure Type 2		
	EMC	CE according to 2014/30/EU		
	Low voltage directive	CE according to 2014/35/EU		
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14		
	UL Approval	cULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1		
		The UL marking on the actuator depends on the production site, the device is UL-compliant in any case		
	Type of action	Туре 1.АА		
	Rated impulse voltage supply / control	4 kV		
	Pollution degree	3		
	Ambient humidity	Max. 95% RH, non-condensing		

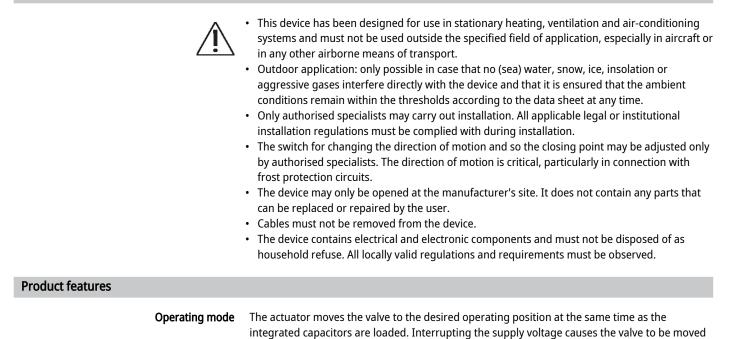


Technical data sheet

Technical data

Ambient temperature	050°C [32122°F]
Storage temperature	-4080°C [-40176°F]
Servicing	maintenance-free
Weight	3.8 kg
Abbreviations	POP = Power off position / fail-safe position CPO = Controlled power off / controlled fail- safe PF = Power fail delay time / bridging time
	Storage temperature Servicing Weight

Safety notes



to the selected fail-safe position by means of stored electrical energy.

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Product features

Pre-charging time (start up)

The capacitor actuators require a pre-charging time. This time is used for charging the capacitors up to a usable voltage level. This ensures that, in the event of a power failure, the actuator can move at any time from its current position into the preset fail-safe position. The duration of the pre-charging time depends mainly on how long the power was interrupted.

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[d] = Power failure in days	0 1 2 7 ≥10 [1] 0 0 1 1 2 7 ≥10	
[s] = Pre-charging time in seconds	[S] 6 9 11 16 20	
Delivery condition (capacitors)	The actuator is completely discharged after delivery from the factory, which is why the actuator	
	requires approximately 20 s pre-charging time before initial commissioning in order to bring the capacitors up to the required voltage level.	
Cotting fail cafe position (DOD)		
Setting fail-safe position (POP)	The rotary knob fail-safe position can be used to adjust the desired fail-safe position. The adjustment range always refers to the maximum height of stroke of the actuator.	
	In the event of a power failure, the actuator will move to the selected fail-safe position, taking	
	into account the bridging time (PF) of 2 s set at the factory.	
Simple direct mounting		
	actuator can be rotated by 360° on the valve neck.	
Manual override	Manual control with push-button possible - temporary. The gear train is disengaged and the	
	actuator decoupled for as long as the button is pressed. The stroke can be adjusted by using a hexagon socket screw key (5 mm), which is inserted into	
	the top of the actuator. The stem extends when the key is rotated clockwise.	
High functional reliability	The actuator is overload protected, requires no limit switches and automatically stops when the	
5 ,	end stop is reached.	
Home position	Factory setting: Actuator stem is retracted.	
	When valve-actuator combinations are shipped, the direction of motion is set in accordance	
	with the closing point of the valve.	
Setting direction of motion	When actuated, the stroke direction switch changes the running direction in normal operation.	
	The stroke direction switch has no influence on the fail-safe position which has been set.	
Restriction 3-point controller	It must be ensured that the pulsating 3-point controller stops when the end position is reached. If this is not possible on the system side, the multifunctional 24 V version of the actuator (V24A-	
	MP) must be used.	

Typical pre-charging time



Accessories

Electrical accessories

Description Auxiliary switch 2x SPDT add-on Туре S2A-H

Electrical installation



Caution: Power supply voltage!

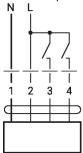
Parallel connection of other actuators possible. Observe the performance data. Direction of stroke switch factory setting: Actuator stem retracted (**A**).

Wire colours:

- 1 = blue
- 2 = brown
- 3 = white
- 4 = white

Wiring diagrams

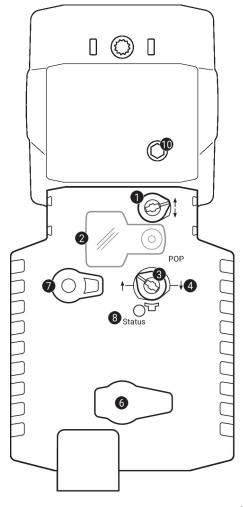
AC 230 V, 3-point



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Operating controls and indicators



- 1 Direction of stroke switch
 - Switch over: Direction of stroke changes
 - Cover, POP button
- B POP button

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- Scale for manual adjustment
- 6 (no function)
 - Manual override button

Press button:Gear train disengages, motor stops, manual override possibleRelease button:Gear train engages, standard mode

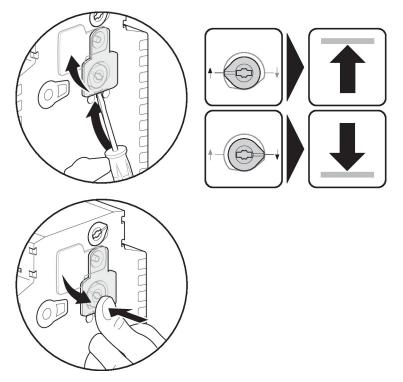
LED displays

green 8	Meaning / function
On	Operation OK
Flashing	POP function active
Off	- Not in operation - Pre-charging time SuperCap - Fault SuperCap

10 Manual override

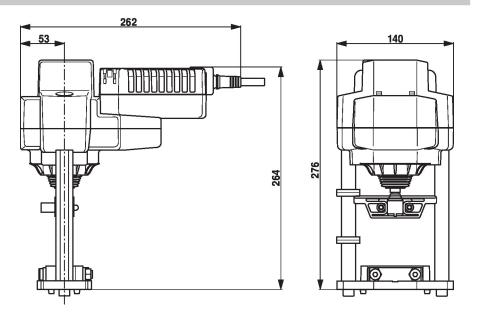
Clockwise: Counterclockwise: Actuator stem extends Actuator stem retracts

Setting emergency setting position (POP)





Dimensions



Further documentation

- The complete product range for water applications
- Data sheets for globe valves
- Installation instructions for actuators and/or globe valves
- Notes for project planning 2-way and 3-way globe valves
- General notes for project planning