

Globe valve actuator for 2-way and 3-way globe valves

- Actuating force 1000 N
- Nominal voltage AC 100...240 V
- Control Open/close, 3-point
- Stroke 20 mm



retro DFIT

NVC230A-RE



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	0.5 W	
	Power consumption for wire sizing	6.5 VA	
	Connection supply / control	Terminals 4 mm² (cable Ø410 mm)	
	Parallel operation	Yes (note the performance data)	
Functional data	Actuating force motor	1000 N	
	Manual override	with push-button, can be locked	
	Stroke	20 mm	
	Running time motor	35 s / 20 mm	
	Sound power level, motor	60 dB(A)	
	Position indication	Mechanical, 520 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	
	Type of action	in any case Type 1	
	Rated impulse voltage supply / control	4 kV	
	Pollution degree	3	
	Ambient humidity	Max. 95% RH, non-condensing	
	Ambient temperature	050°C [32122°F]	
	Storage temperature	-4080°C [-40176°F]	
	Consistent	- 	

maintenance-free

1.8 kg

Servicing

Weight

Weight



Safety notes



- This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Outdoor application: only possible in case that no (sea) water, snow, ice, insolation or
 aggressive gases interfere directly with the device and that it is ensured that the ambient
 conditions remain within the thresholds according to the data sheet at any time.
- 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 motion and so the closing point may be adjusted only
 by authorised specialists. The direction of motion is critical, particularly in connection with
 frost protection circuits.
- 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 device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

Mounting on third-party valves

The RetroFIT actuators for installation on a wide range of valves from various manufacturers are comprised of an actuator, bracket, universal valve neck adapter and universal valve stem adapter. Adapt the valve neck and valve stem to begin with, then attach the RetroFIT bracket to the valve neck adapter. Now fit the RetroFIT actuator into the bracket and connect it to the valve. Whilst taking the position of the valve closing point into account, secure the actuator to the bracket and then conduct the commissioning process. The valve neck adapter/actuator can be rotated by 360° on the valve neck, provided the size of the installed valve permits.

Mounting on Belimo valves

Use standard actuators from Belimo for mounting on Belimo globe valves. The installation of RetroFIT actuators on Belimo globe valves is technically possible.

Manual override

Manual override with push-button possible (the gear train is disengaged for as long as the button is pressed or remains locked).

The stroke can be adjusted by using a hexagon socket screw key (4 mm), which is inserted into the top of the actuator. The stroke shaft extends when the key is rotated clockwise.

High functional reliability

The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.

Home position

Factory setting: Actuator stem is retracted.

Setting direction of motion

When actuated, the stroke direction switch changes the running direction in normal operation.

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.

Accessories

Electrical accessories Description		Туре	
	Auxiliary switch 2 x SPDT add-on	S2A-H	
Mechanical accessories Description		Туре	
	Spacer ring for LDM, stroke 20 mm	ZNV-203	
	Spacer ring for Sauter, stroke 20 mm	ZNV-204	
	Adapter kit Danfoss	ZNV-205	

Electrical installation

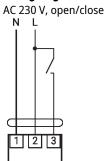


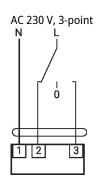
Caution: Power supply voltage!

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



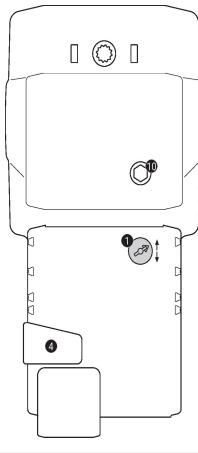
Wiring diagrams





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	~	~	¥	*
	/	_/_	stop	stop
	/	~	*	<u> </u>

Operating controls and indicators



Direction of stroke switch

Switch over: Direction of stroke changes

4 Manual override button

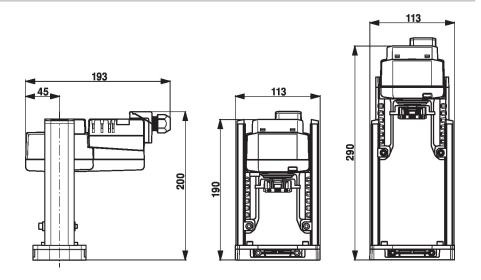
Press button: Gear train disengages, motor stops, manual override possible

Release button: Gear train engages, standard mode

10 Manual override

Clockwise: Actuator stem extends
Counterclockwise: Actuator stem retracts

Dimensions





Further documentation

• Installation instructions for actuators