

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

- Actuating force 1000 N
- Nominal voltage AC/DC 24 V
- Control Open/close, 3-point
- Stroke 20 mm



Functional data Nominal voltage AC/DC 24 V Nominal voltage frequency 50/60 Hz Nominal voltage frequency 50/60 Hz Nominal voltage frequency 1.5 W Power consumption in operation 1.5 W Power consumption for wire sizing 3 VA Connection supply / control Terminals 4 mm² (cable &410 mm) Parallel operation Yes (note the performance data) Functional data Actuating force motor 1000 N Manual override with push-button, can be locked 5troke 20 mm Running time motor 35 s / 20 mm Sound power level, motor 60 dB(A) Position indication Mechanical, 520 mm stroke Protection ItaC/EN III, Safety Extra-Low Voltage (SELV) Power source UL Class 2 Supply Class 2 Supply Degree of protection ItaC/EN IPS4 Degree of protection ItaC/EN IPS4 Power source UL Class 2 Supply Certification ItaC/EN IPS4 Caccording to 2014/35/EU Cow voltage directive CE according to 2014/35/EU Certification ItaC/EN IEC/EN 60730-1 and ItaC/EN 60730-2-14 Cluss according to 1014/35/EU Certification ItaC/EN IEC/EN 60730-1 and ItaC/EN 60730-2-14 Cluss according to 1014/35/EU Certification ItaC/EN IEC/EN 60730-1 and ItaC/EN 60730-2-14 Cluss according to 2014/35/EU Certification ItaC/EN IEC/EN 60730-1 and ItaC/EN 60730-2-14 Cluss according to 2014/35/EU Certification ItaC/EN IEC/EN 60730-1 and ItaC/EN 60730-2-14 Cluss according to 2014/35/EU Certification ItaC/EN IEC/EN 60730-1 and ItaC/EN 60730-2-14 Cluss according to 2014/35/EU Certification ItaC/EN IEC/EN 60730-1 and ItaC/EN 60730-2-14 Cluss according to 2014/35/EU Certification ItaC/EN IEC/EN 60730-1 and ItaC/EN 60730-2-14 Cluss according to 2014/35/EU Certification ItaC/EN IEC/EN 60730-1 and ItaC/EN 60730-2-14 Cluss according to 2014/35/EU Cluss				
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Functional data Actuating force motor Manual override Stroke 20 mm Running time motor 35 s / 20 mm Sound power level, motor Fosition indication Mechanical, 520 mm stroke Safety data Protection class IEC/EN Power source UL Degree of protection IEC/EN Degree of protection NEMA/UL Enclosure UL Enclosure EMC CE according to 2014/30/EU Certification IEC/EN IEC/EN 60730-1 and IEC/EN 60730-2-14 UL Approval UL Approval Type of action Rated impulse voltage supply / control Pollution degree Ambient humidity Ambient temperature Very mith push-button, can be locked with push-button, can be locked stored and mach contact So your manual stored With push-button, can be locked with push-button, can be locked stored and mach contact So your manual stored Stored button, can be locked stored and mach contact So your manual stored Stored button, can be locked Stored manual stored Stored button, can be locked Stored mach So your mach So your mach contact Stored button, can be locked Stored mach So your mach S		Connection supply / control	Terminals 4 mm² (cable ø410 mm)	
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Sound power level, motor 60 dB(A) Position indication Mechanical, 520 mm stroke 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 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 Type 1 Rated impulse voltage supply / control 0.8 kV Pollution degree 3 Ambient humidity Max. 95% RH, non-condensing Ambient temperature 050°C [32122°F] Storage temperature -4080°C [-40176°F]		Stroke	20 mm	
Position indication Mechanical, 520 mm stroke Frotection 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 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 Type 1 Rated impulse voltage supply / control 0.8 kV Pollution degree 3 Ambient humidity Max. 95% RH, non-condensing Ambient temperature 050°C [32122°F] Storage temperature -4080°C [-40176°F]		Running time motor	35 s / 20 mm	
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Power source UL Degree of protection IEC/EN 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 Type 1 Rated impulse voltage supply / control 0.8 kV Pollution degree 3 Ambient humidity Max. 95% RH, non-condensing Ambient temperature 050°C [32122°F] Storage temperature -4080°C [-40176°F]		Position indication	Mechanical, 520 mm stroke	
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Ambient humidity Ambient temperature Max. 95% RH, non-condensing O50°C [32122°F] Storage temperature -4080°C [-40176°F]				
Ambient temperature 050°C [32122°F] Storage temperature -4080°C [-40176°F]				
Storage temperature -4080°C [-40176°F]			-	
 		<u></u>		
Servicing maintenance-free				
		Servicing	maintenance-free	

1.9 kg

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 with 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.

Accessories

Electrical accessories	Description	Туре	
	Auxiliary switch 2x 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



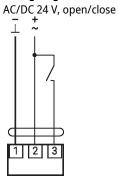
Supply from isolating transformer.

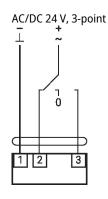
Parallel connection of other actuators possible. Observe the performance data. Direction of stroke switch factory setting: Actuator stem retracted (🛦).



Electrical installation

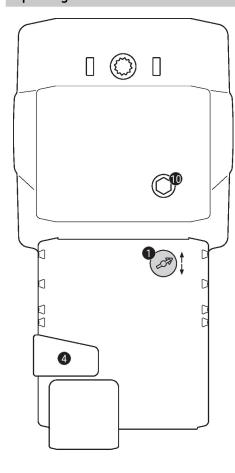
Wiring diagrams





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Operating controls and indicators



1 Direction of stroke switch

Switch over: Direction of stroke changes

4 Manual override button

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

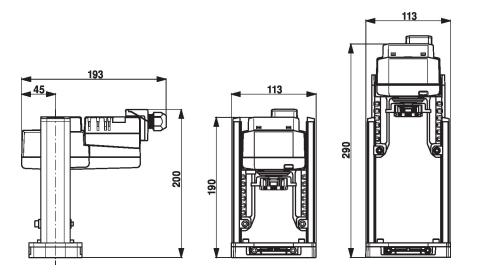
Release button: Gear train engages, standard mode

10 Manual override

Clockwise: Actuator stem extends
Counterclockwise: Actuator stem retracts



Dimensions



Further documentation

• Installation instructions for actuators