

### Technical data sheet

# 227-230-16I\_VNB(-S1\_VNB) Open Close Actuator for Ball Valve

# Description

Open Close actuators for ball valve.

Running time
Torque
Nominal voltage
Control
Running time
16 Nm
230 VAC/DC
2-/3-point



## Technical data

## **Electrical data**

Nominal voltage	230 VAC/DC, 50/60Hz
Nominal voltage range	85265 VAC/DC
Power consumption motor (motion)	3.0 W
Power consumption standby (end position)	1.5 W
Wire sizing	5.5 VA
Control	2-/3-point
Connection motor	cable 1000 mm, 3 x 0. 75 mm² (halogen free)
Connection feedback potentiometer	-
Connection GUAC	-
Feedback signal	-
227-230-16I-SI_VNB	
Auxiliary switch	- 1 x SPDT (ag)
Contact load	- 5 (2.5) A, 250 VAC
Switching point	- 095°
Connection auxiliary switch	cable 1000 mm, 3 x 0. 75 mm² (halogen free)

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Functional data		
	Torque	16 Nm
	Synchronized speed	+/-5%
	Direction of rotation	selected by switch
	Manual override	gearing latch disengaged with pushbutton, self-resetting
	Running Time	100 s / 90°
	Sound power level	< 35 dB(A)
	Position indication	mechanical with pointer
	Service life	> 100,000 cycles (0°95°0°)

Safety		
	Protection class	II (double insulation)
	Degree of protection	IP 54 (cable downwards)
	ЕМС	CE (2014/30/EU)
	LVD	CE (2014/35/EU)
	RoHS	CE (2011/65/EU - 2015/863/EU - 2017/2102/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage auxiliary switch	4 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature normal operation	-30°C+50°C
	Storage temperature	-30°C+80°C
	Ambient humidity	595% r.H., non condensing (EN 60730-1)
	Maintenance	Maintenance free
Dimensions/Weight		

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	Dimensions	117 x 67 x 67 mm
	Weight	350 g
	Weight (S1_VNB)	510 g

## **Functionality / Properties**

#### Operating mode

#### 2 point:

Connect power supply to wire 1+2, actuator drives to position 1. Is also wire 3 connected to the power supply, actuator drives to position 0.

#### 3 point:

Connect power supply to wire 1+2, actuator drives to position 1. Is wire 1+3 connected to the power supply, actuator drives to position 0.

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

#### Manual override

Manual override with self resetting push button possible (the gear is disengaged as long as the button is pressed).

#### Mode switch

Mode switch with two positions at the housing

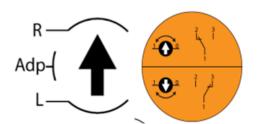
R: rotary direction right / clockwise

Adp: adaption

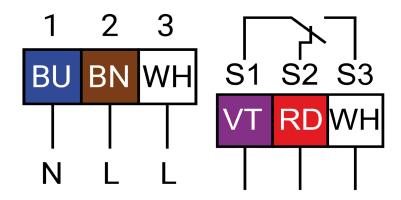
L: rotary direction / counter clockwise

#### Adaption drive

- · Actuator power off
- Setting the mechanical end stops
- Actuator power on
- · Adaption enable
- Actuator drive to position 0
- Actuator drive to position 1
- Adaption disable, if desired an gular range reached or rather if actuator reached end stop.



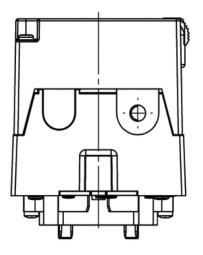
## Connector / Security Note

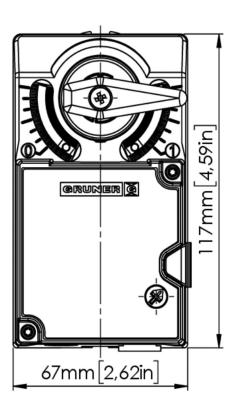


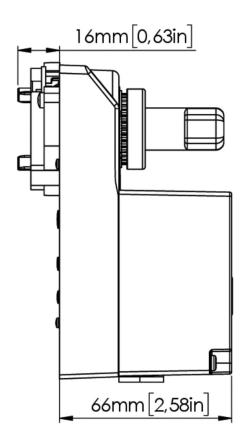
#### Safety remarks

- Caution: power supply voltage!
  - The device is not allowed to be used outside the specified field of application, especially in airplanes.
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- The device may only be opened at the manufacturer's site.
- The device is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.
- When calculating the required torque, the specifications supplied by the damper manufacturer's (crosssection, design, installationsite), and the air flow conditions must be observed.

# **Technical Drawing**







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