Technical data sheet

227-024-08I_VNB(-S1_VNB)
Open Close Actuator for Ball Valve

Description

Open Close actuators for ball valve.

- Running time 100 s / 90°
- Torque 8 Nm
- Nominal voltage 24 VAC/DC
- Control 2-/3-point

Technical data

Electrical data

Nominal voltage	24 VAC/DC, 50/60Hz
Nominal voltage range	19...29 VAC/DC
Power consumption motor (motion)	3.0 W
Power consumption standby (end position)	1.0 W
Wire sizing	5.0 VA
Control	2-/3-point
Connection motor	cable 1000 mm, 3 x 0. 75 mm² (halogen free)
Connection feedback potentiometer	-
Connection GUAC	-
Feedback signal	-
227-024-08I-SI_VNB	
Auxiliary switch	- 1 x SPDT (ag)
Contact load	- 5 (2.5) A, 250 VAC
Switching point	- 0…95°
Connection auxiliary switch	cable 1000 mm, 3 x 0. 75 mm² (halogen free)

Functional data	
Torque	8 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	III (safety extra-low voltage)
Protection class auxiliary switch	II (double insulation)
Degree of protection	IP 54 (cable downwards)
EMC	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 supply / control	0.8 kV
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	5...95% r.H., non-condensing
Maintenance	Maintenance free

Dimensions/Weight	
Dimensions	117 x 67 x 66 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

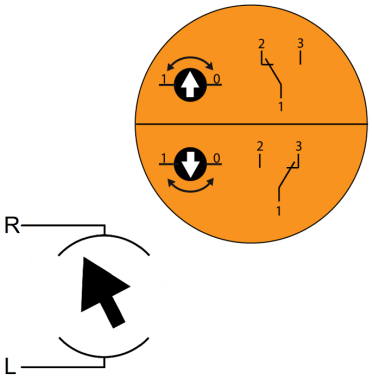
Manual override with self resetting pushbutton possible (the gear is disengaged as long as the button is pressed).

Signaling

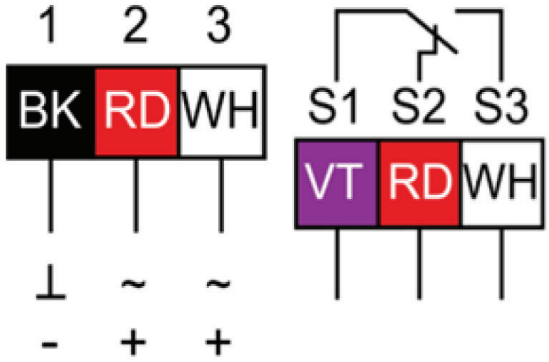
The integrated auxiliary switch is freely adjustable in the angle of 0 - 95°. There is activated corresponding to the adjusted angle. The damper position can be checked by the mechanicel pointer.

Mode switch

Mode switch with two positions at the housing:
R: rotary rotation right / clockwise
L: rotary rotation



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 (cross section, design, installationsite), and the air flow conditions must be observed.

Technical Drawing