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Technical data sheet

341-024-05_VNB(-S2F_VNB) **Open Close Actuator for Ball Valve**

Description

Spring return actuator for Ball Valves

Running time motor 75 s / 90° 20 s / 90° Running time spring Torque motor 5 Nm Torque spring 5 Nm Nominal voltage 24 VAC/DC Control 2-point



Technical data

Electrical data

	Nominal voltage	24 VAC/DC, 50/60Hz
	Nominal voltage range	1929 VAC/DC
	Power consumption motor (motion)	6.5 W
	Power consumption standby (end position)	2.0 W
	Wire sizing	9.0 VA
	Control	2-point
	Connection motor	cable 1000 mm, 2 x 0. 75 mm² (halogen free)
	Connection feedback potentiometer	-
	Connection GUAC	-
	Feedback signal	-
	341-024-05-S2F_VNB	
	Auxiliary switch	2 x SPDT (ag)

Contact load

Switching point

Connection auxiliary switch

1

5 (2.5) A, 250 VAC

(halogen free)

cable 1000 mm, 6 x 0. 75 mm²

10° / 85°



Functional data		
	Torque	5 Nm
	Torque spring	5 Nm
	Synchronized speed	±5%
	Direction of rotation	selected by mounting
	Manual override	Manual operation
	Running Time motor	75 s / 90°
	Running time spring	20 s / 90°
	Sound power level motor	< 45 dB(A)
	Sound power level spring	< 65 dB(A)
	Position indication	mechanical with pointer
	Service life	> 60 000 cycles (0°95°0°)
Safety		
	Protection class	III (safety extra-low voltage)
	Degree of protection	IP 54
	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 (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 (EN60730-1)
	Maintenance	Maintenance free
Dimensions/Weight		
	Dimensions	145 x 75 x 70 mm
	Weight	1000 g
	Weight (S2F_VNB)	1100 g



Functionality / Properties

Operating mode

Connect power supply to wire 1+2, actuator drives to postion 1 while the pre-tensioned spring is wound up the same time. If the power supply is interrupt, actuator drives back to position 0 by spring power. The actuator is still maintaining the minimum torque at the position 0.

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

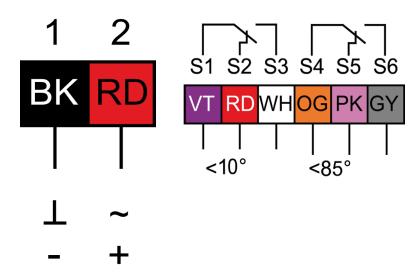
Manual override

The actuator can only be operated manually while the power supply is off. The supplied lever is used to open and lock the damper position. The lock stays until the power supply is switched on again.

Signaling

The two integrated auxiliary switches are activated at he fixed switching positions (10° and 85°). The damper position can be checked by the mechanicel pointer.

Connector / Security Note

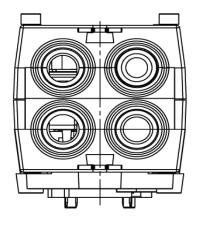


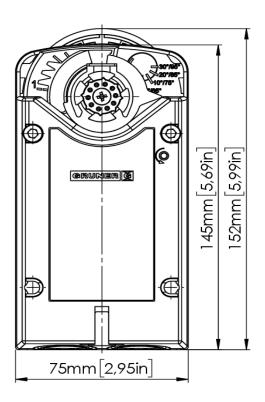
Safety remarks

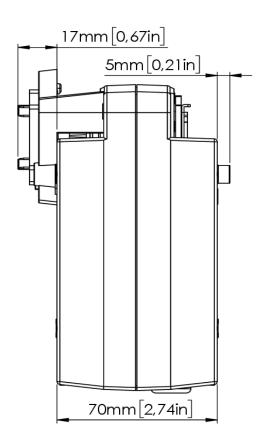
- Connect via safety isolation transformer!
- The device is not allowed to be used outside the specified field of application, especially in airplanes.
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- The device may only be opened at the manufacturer's site.
- Cables must not be removedfrom the device.
- The cable of this actuator cannot be replaced. If the cable is damaged, the actuator should be scrapped.
- The device is not allowed to be disposed of as house hold 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, installation site), and the air flow conditions must be observed.



Technical Drawing







*Darstellung mit Antrieb

^{*}Figure with actuator

Exploded Drawing

