

363-230-20_VNB(-S2_VNB) Open Close Actuator for Ball Valve

Description

Non Spring return actuator for Ball Valves

- Running time motor 150 s / 90°
- Torque motor 20 Nm
- Nominal voltage 230 VAC/DC
- Control 2-/3- point
- Auxiliary switch (-S2) 2 x freely adjustable
- Matching with V2SAR100/125/150 Ball Valves with linkage 360-SHT-VB



Technical data

Electrical data

Nominal voltage	230 VAC/DC, 50/60Hz
Nominal voltage range	85–265 VAC/DC
Power consumption motor (motion)	3.0 W
Power consumption standby (end position)	1.5 W
Wire sizing	7.0 VA
Control	2-/3- point
Connection motor	cable 1000 mm, 3 x 0.75 mm ² (halogen free)
Connection feedback potentiometer	-
Connection GUAC	-
Feedback signal	-
363-230-20-S2_VNB	
Auxiliary switch	2 x SPDT (Ag)
Contact load	5 (2.5) A, 250 VAC
Switching point	0–95°
Connection auxiliary switch	cable 1000 mm, 6 x 0.75 mm ² (halogen free)

Functional data

Torque	20 Nm
Synchronized speed	±5 %
Manual override	gearing latch disengaged with pushbutton, self-resetting
Running Time	150 s / 90°
Sound power level	< 45 dB(A)
Service life	> 60,000 cycles (0°–95°–0°)

Safety	Protection Class	III (safety extra-low voltage)
	Degree of protection	IP54
	EMC	CE (2014/30/EU)
	LVD	CE (2014/35/EU)
	RoHS	CE (2011/65/EU - 2015/863/EU - 2017/2102/EU)
	Mode of operation	Type 1 (EN 60730-1)
	Rated impulse voltage supply / control	4 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature normal operation	-30–50 °C
	Storage temperature	-30–80 °C
	Ambient humidity	5–95 % R.H., non-condensing (EN60730-1)
	Maintenance	maintenance free
Dimensions	Dimensions	193 x 96 x 60 mm
	Weight	1600 g
	Weight (S2_VNB)	1700 g

Functionality / Properties

Operating mode

2 point:

Connect power supply to wire 1+2, actuator drives to position 1. If 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. 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

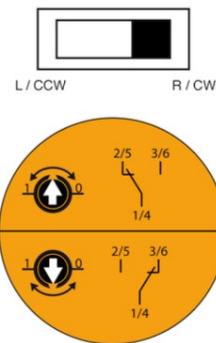
The actuator can only be operated manually while the power supply is off. The supplied lever is used to open and close the ball valve position. The lock stays until the power supply is switched on again.

Signaling

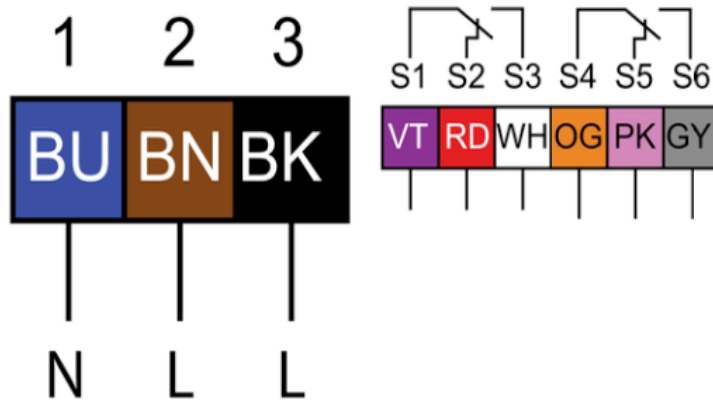
The two integrated auxiliary switches are freely adjustable in the angle of 0–95°. There are activated corresponding to the adjusted angle. The damper position can be checked by the mechanical pointer.

Mode of switch

DIP switch under the case cover
R / CW: rotary direction right / clockwise.
L / CWW: rotary direction left / counter clockwise.



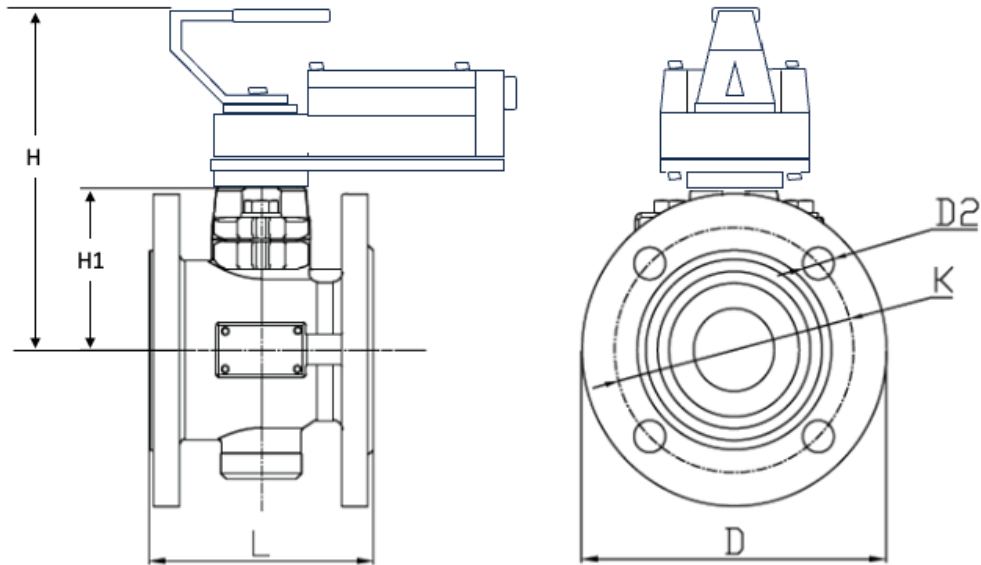
Connector / Security Note



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.
- 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.

Dimensions



Dimensions with 363....VNB+V2SAR... actuator and valve assembled:

DN	D (mm)	D2 (mm)	K (mm)	L (mm)	H1 (mm)	H (mm)
65	185	4-19	145	136.5	98	218
80	200	8-19	160	168	105	225
100	220	8-19	180	211	117	237
125	250	8-19	210	262.5	138	358
150	285	8-23	240	315	152	272

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