

Electrical Regulating Ball Valve EBV91 Series FOR HEATING, VENTILATION AND AIR CONDITIONING (HVAC) SYSTEMS

PRODUCT DATA AND INSTALLATION INSTRUCTIONS

BENEFITS

- Multiple flow KV options are available for the same caliber valve body
- Long life design, PTFE graphite reinforced body seal
- Double EPDM stem seal ring
- Built-in integrated valve plate, not afraid of reverse pressure difference, high closing force
- Equal percentage flow characteristic
- All actuators have manual function
- Switch control, floating point control, proportional control

TECHNICAL SPECIFICATIONS

Max. allowable pressure difference	0.35Mpa
Max. cut off pressure difference	1.4MPa
Rotation angle	0...90°
Adjustable ratio of valve	>100
Medium temp	-5~+120℃

OPERATING RANGES

Ball valve diameter	DN15、DN20	DN25、DN32	DN40、DN50	DN65、DN80
Two Way Flow	4Nm	16Nm	8Nm	16Nm
Running time	25S	30S	30S~45S	30S~55S

DN100、DN125	DN150
24Nm	32Nm
120S~160S	160S~200S

CONTENTS OF DELIVERY

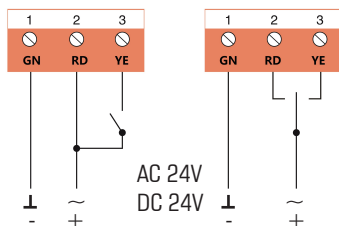
The deliver includes (in the case of individual packages)

The following part:

- 1 EBV91 Electrical Regulating Ball Valve
- 1 Data sheet with installation information

WIRING DIAGRAM

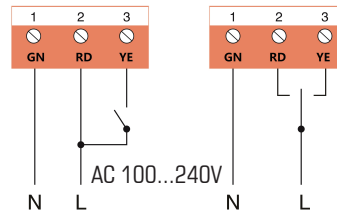
24V switch wiring diagram



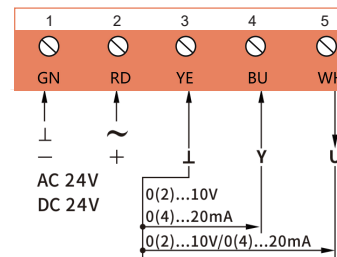
Note: There is a positive and negative switch inside the actuator



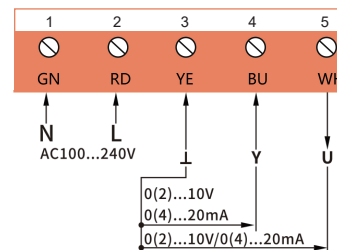
220V switch wiring diagram



24V analog wiring diagram



220V analog wiring diagram



Note:

L: The "-" pole of the internal and external output signal

Y: The "+" pole of the external input signal

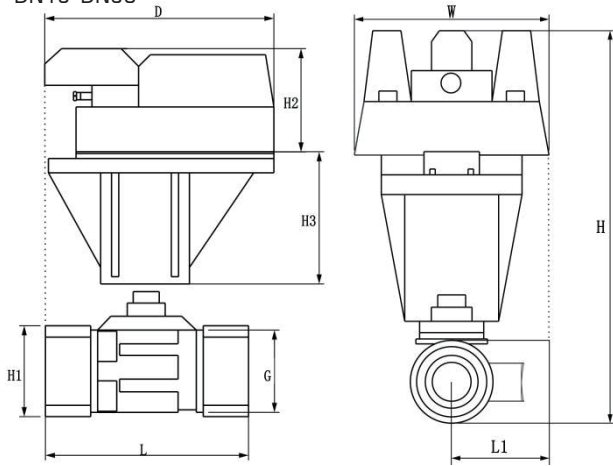
U: "+" pole of the internal output signal

Voltage 0(2)... 10V input impedance $\geq 200K\Omega$ Current 0(4)... 20mA Input impedance = 500 Ω

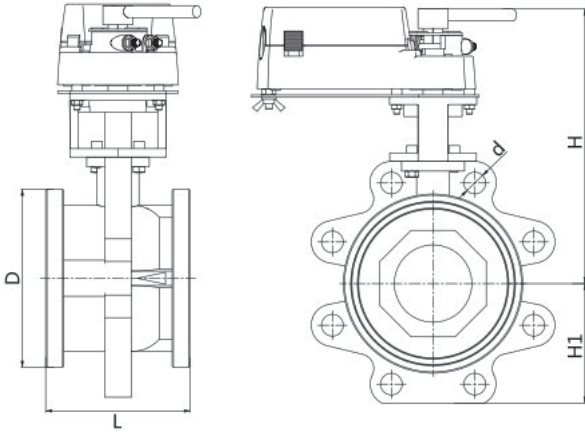
Note: Input signal and feedback signal can be freely selected according to customer demand.

DIMENSIONS IN mm

DN15-DN50



DN65-DN150



Ball valve diameter	Optional KV value	G	D (mm)	W (mm)	H (mm)
DN15	16, 25, 40, 63, 101	G1/2	187.5	85	184
DN20	25, 40, 63	G3/4	187.5	85	184
DN25	10, 16	G1	187.5	85/89.5	189
DN32	16, 25	G1-1/4	187.5	85/92.5	199
DN40	25, 40	G1-1/2	207.5	101.5/103.5	208
DN50	40, 63	G2	212.5/210	101.5/120.5	219
Ball valve diameter	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)
DN15	37.5	65	71	60	/30
DN20	44	65	71	68	/33
DN25	47	65	71	89	/47
DN32	52.5	65	71	102.5/98	/50
DN40	57	68	71	113/106.5	/53
DN50	62	68	71	127/122.5	/70

Ball valve diameter	Flange index circle	L (mm)	D (mm)	H (mm)	n-d (mm)	H1 (mm)
DN65	146	93	105	236	4-Φ18	67
DN80	160	108	125	244	8-Φ18	90
DN100	180	120	148	233	8-Φ18	99
DN125	210	144.5	179	247	8-Φ18	114
DN150	240	168	205	261	8-Φ22	138

Anwoll

ANWOLL INDUSTRIES, INC

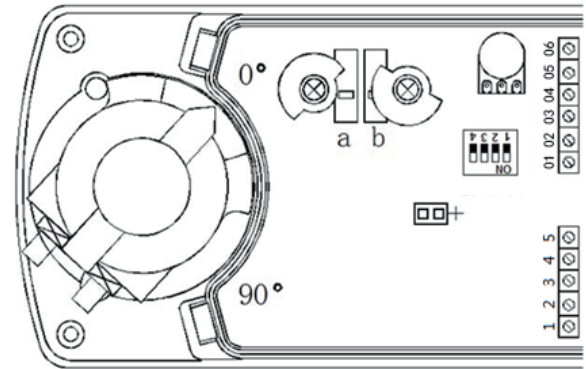
5634 Grand Floral Blvd. Houston,
TX 77041 USA

VERSION-JAN-2024-V01

FUNCTION SETTING FOR DIAL SWITCH

No1: Mode of feedback signal	No2: Control of starting signal	No3: Mode of control signal	No4: Switch the direction of rotation
<p>OFF: voltage signal 0 (2) ...10V feedback</p>	<p>OFF: voltage 0...10V or current 0...20mA Input</p>	<p>OFF: voltage signal 0 (2) ...10V Input</p>	<p>OFF: With the signal increase, actuator rotates anticlockwise</p>
<p>ON: current signal (0 (4) ...20mA feedback</p>	<p>ON: voltage 2...10V or current 4...20mA Input</p>	<p>ON: current signal 0 (4) ...20mA Input</p>	<p>ON: With the signal increase, actuator rotates clockwise</p>
<p>Factory setting</p> <p>Input: 0...10V Feedback: 0...10V With the signal increase actuator rotates clockwise</p>			

MODELS ADJUST THE AUXILIARY SWITCH



Factory setting:

Switch a	Terminal 01,02	Terminal 01,03
0-10°	Short circuit	Open circuit
10-90°	Open circuit	Short circuit
Switch b	Terminal 04,05	Terminal 04,06
0-80°	Open circuit	Short circuit
80-90°	Short circuit	Open circuit

Set auxiliary switch a: Turn the actuator clockwise to the Angle to be set, release the screw of knob a, turn knob a clockwise to just press the microswitch, hold this position, and re-tighten the screw.

Set auxiliary switch b: Turn the actuator clockwise to the Angle to be set, loosen the screw on knob b, turn knob b clockwise to just release the microswitch, hold this position, and re-tighten the screw.