

BV2012Series-nut connected electric ball valve

BV2012SSeries-flange square head connection electric ball valve

Product Overview

It is widely used in building automatic control systems such as heating, ventilation, air conditioning and refrigeration. It can adjust the flow of fluid in the system pipeline by controlling the opening or closing of valves and the opening (analog) of valves, in order to obtain a comfortable greenhouse environment and achieve the effect of saving energy.

Product Features

- Equal percentile traffic characteristics
- Valve body brass forging
- 600KPA closed differential pressure, PN16 ~ PN20 valve body pressure
- Equipped with manual mechanism, easy to adjust and easy to maintain

- The built-in micro switch is specifically in place with power-off function, and the service life of the motor is longer.
- The actuator is dismantled and easy to install. It can be installed after the equipment and pipeline are installed.
- The closing pressure difference is large, the closing is strict, and the valve is flexibly opened, which can effectively prevent water hammer

Analog features

The equipment after verification will adjust the valve angle according to the signal input voltage signal; If there is no signal input, the valve will be closed;

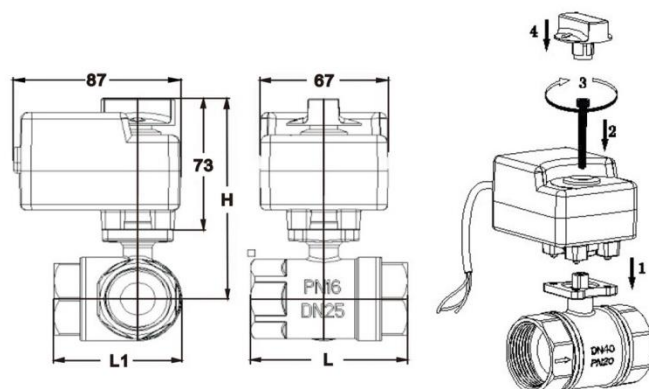
Driver parameters

Motor type	Synchronous machine	Power cord length	300mm
Action Time	25 seconds	Torque	4N.m
Close differential pressure	≤0.6Mpa	Nominal pressure	PN16~PN20
Medium temperature	5~95°C		
Watt consumption	50/60Hz 6W(Only when the valve is open)		
Applicable media	Cold, hot water or 50% ethanol solution		
Electrical specifications	24VAC/110VAC/220VAC		
Operating angle	0°/90°		

Valve body parameters

Product specifications	Caliber	Product Size (mm)			Kv Value	Net Weight
		H	L	L1		
Two-way	DN15(1/2)	110	54		11	0.48
	DN20(3/4)	114	62		20	0.57
	DN25(1)	120	65		60	0.62
	DN32(1-1/4)	125	75		80	0.89
Three-way	DN15(1/2)	108	54	43	11	0.55
	DN20(3/4)	115	70	56	20	0.62
	DN25(1)	120	83	63	60	0.85

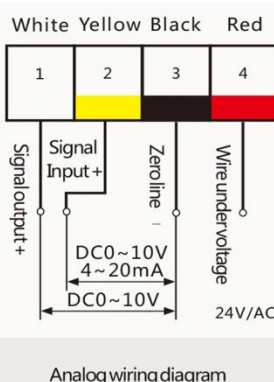
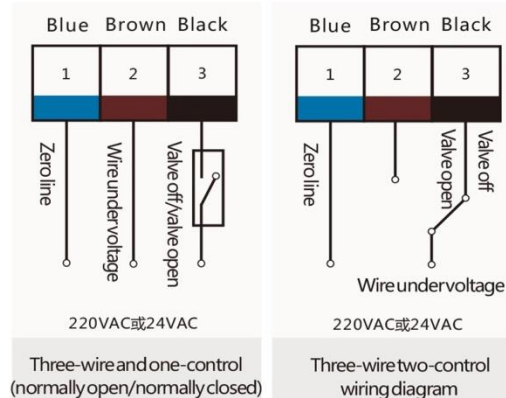
Photo illustration



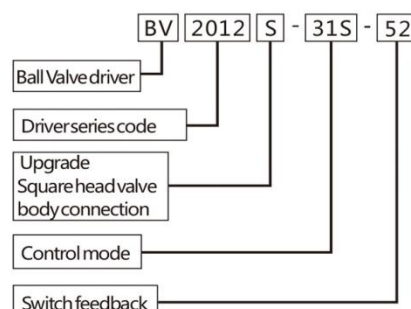
Product Type

Nut connection mode		Connection mode of square head valve body	
BV2012-32	Three-wire two-control	BV2012S-32	Three-wire two-control
BV2012-31S	Three lines and one control (forward and reverse)	BV2012S-31S	Three lines and one control (forward and reverse)
BV2012-52	Three-wire two-control switch feedback	BV2012S-52	Three-wire two-control switch feedback
BV2012-52M	Three-wire two-control analog control	BV2012S-52M	Three-wire two-control analog control
BV2012-31S-52	Three-wire one-control (forward and reverse) switch feedback	BV2012S-31S-52	Three-wire one-control (forward and reverse) switch feedback

Wiring diagram



Selection description



Valve body parameters

Connection mode	Material	ification	PN value	DN (mm)	NB (inch) Nominal inner diameter	Long (mm)	Wide (mm)	High (mm)	Weight (g)	Flow hole size	KV value
Threaded connection	Brass	2-way	PN16	DN15	1/2"	~50		~49	~147	12	12
	Brass		PN16	DN20	3/4"	~55		~54	~212	17	17
	Brass		PN16	DN25	1"	~65		~60	~297	20	20
	Brass		PN16	DN32	1-1/4"	~74		~75	~540	24	25
Threaded connection	Brass	3-way	PN16	DN15	1/2"	~56	~42	~47	~206	12	12
	Brass		PN16	DN20	3/4"	~68	~52	~58	~352	17	17
	Brass		PN16	DN25	1"	~83	~64	~65	~540	20	20
Threaded connection	Brass	2-way	PN20	DN20	3/4"	~60		~55	~222	15	
	Brass		PN20	DN25	1"	~67		~65	~353	21.5	
	Brass		PN20	DN32	1-1/4"	~78		~72	~510	25	
Threaded connection	Stainless steel 304	2-way	PN20	DN15	1/2"	~53	~26	~52	~158	14	
	Stainless steel 304		PN20	DN20	3/4"	~58	~32	~57	~208	17	
	Stainless steel 304		PN20	DN25	1"	~65	~38	~63	~298	32	
	Stainless steel 304		PN20	DN32	1-1/4"	~83	~58	~82	~527	30	

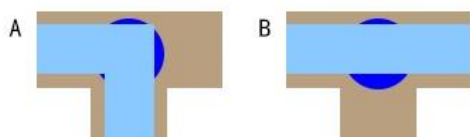
Common British G thread large diameter tolerance comparison table

Thread Specification					External thread		Internal thread	
Nominal diameter	Thread code	Commonly known	Number of teeth per hour	Tooth pitch	Large diameter tolerance of external thread	External thread bottom diameter tolerance	Internal thread diameter tolerance	Internal thread bottom diameter tolerance
DN15	1/2"	4分	14	1.814	20.67	18.7	19	20.96
DN20	3/4"	6分	14	1.814	26.16	24.2	24.5	26.44
DN25	1"	1吋	11	2.309	32.9	30.7	30.5	33.3
DN32	1 1/4"	1.2吋	11	2.309	41.55	39.2	39.5	41.9

Three-Line first control (normally closed), three-line second control

When the blue line, Brown Line, and black line are powered on, the water flow direction is A

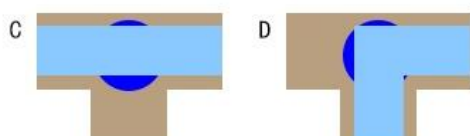
When the blue line and brown line are powered on, the water flow direction is B



Three-Line first control (normally open)

When the blue line, Brown Line and black line are powered on, the water flow direction is C

When the blue line and brown line are powered on, the water flow direction is D



Company Introduction



Certifications

Ningbo Junzhou Automatic Control Equipment Co., Ltd.

was established on December 9, 2015