SBA06 SERIES BALL VALVE ACTUATOR

DESCRIPTION

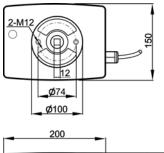
SBA06 series ball valve actuator is using bi-directional motor. Matching with SBV series flange ball valve, it is mainly used in central air-conditioning system, heating system, water treatment, and production industry to control the flow of chilled/hot medium.

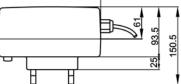
CHARACTERISTIC

- Bi-directional AC motor
- Easy & flexible installation
- Position feedback auxiliary switch for option
- High strength die-casting aluminum alloy chassis, fireproof ABS engineering plastic, measure up UL94V-0 standard
- Built-in limiter for power saving and longer motor life
- Suitable for DN125-DN150 flanged ball valve
- 0(2)~10V dc or 0(4)~20mA dc control input signal, proportional control, and 0~10V feedback signal.

SBA06 SERIES MODEL SELE	ECTION
SBA06-XX	
PRODUCT CODE Ball valve actuator	
SERIES CODE 06—The sixth series ball valve actuator	
VOLTAGE CODE 024—24Vac 220—220Vac 230—230Vac	

DIMENSIONS





ADDITIONAL FUNCTION E—Modulating control, with 0~10V

feedback signal (Only for 24V)

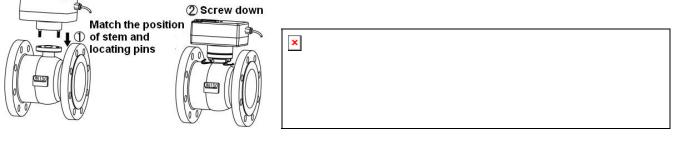
SPECIFICATIONS AND DATA

MODEL		SBA06-024E	SBA06-024	SBA06-220	SBA06-230			
POWEI	R SUPPLY	24Vac	24Vac	230Vac				
POWER CO	ONSUMPTION	Load 11VA	Load 10VA					
CONTRO	OL SIGNAL	0(2)~10V dc or 0(4)~20mA dc	_					
DEFAUL	T SETTING	Input: 0~10Vdc Work mode: DA						
CURRENT	FREQUENCY		50/60Hz					
TORQUE ≥65Nm								
OPERATION TIME (0~90 °) 120s (50Hz) / 100s (60Hz)								
ROTATA	BLE ANGEL	90° <limiter≤9< th=""><th colspan="5">0°<limiter≪95°< th=""></limiter≪95°<></th></limiter≤9<>	0° <limiter≪95°< th=""></limiter≪95°<>					
CONNEC	TING WIRES		0.5~1 mm ²					
	HOUSING	ABS self-quenching engineering plastic						
MATERIAL	CHASSIS	Die-casting aluminum alloy						
	GEAR	Brass HPb59-1; Steel 40Cr,45						
OPERAT	TION TEMP.	-5~+50℃						
STO	RAGE TEMP.	- 30~+70 °C						
IP (CLASS	IP54						

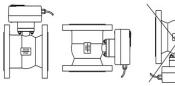


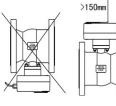
INSTALLATION

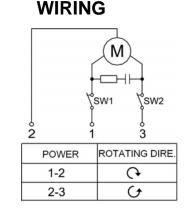
MANUAL LEVER

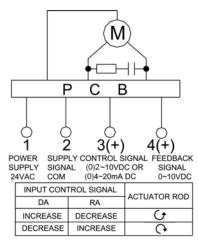












WARNING:

- Cut off power supply when repairing or maintaining.
- Do not connect or disconnect wire when power is on.

PCB SETTING

Study status: After power is on, set JP1 switch as request (refer to the following list). First, switch "4" of JP1 to position ON, then press SW1 STUDY/REPOSITON button, buzzer will sound every 5 seconds, and the actuator stem is going down (opening valve) until gears are blocked (has reached the maximum stroke). Then the stem will go upward until gears are blocked again (has been in the initial position). Buzzer will make a long sound to indicate the study status is over. MCU will keep the data in memory even power is off.

Then switch "4" of JP1 back to position OFF to transform to running status. If this step is missed, the actuator will operate as usual, but it will go through the study status every time when power is on.

- 2. **Running status:** The actuator will return to fully closed position every time when power is on. It will close the valve at first, and then the buzzer will make a long sound to indicate the actuator is ready for control signal.
- 3. **Study/running status shift:** If user needs to switch study/running status, make sure the JP1 has been set correctly, then press SW1 STUDY/REPOSITON button. Don't need to cut off power.

JP1 :		H SETTIN	IG	PCB DIAGRAM			
STATUS		0~10V DC	2~10V DC	0~20mA DC	4~20mA DC		
RUNNING STATUS	DA	OFF ON	OFF ON	OFF ON 1234	OFF ON		SENSOR INPUT SW1 SW1 STUDY/REPOSITION SWITCH SWITCH SWITCH STATUS SWITCH STATUS SWITCH STATUS SWITCH STATUS SWITCH
RUN STA	RA	OFF ON 1234	OFF ON 1234	OFF ON 1234	OFF ON 1234	DEFAULT SETTING OFF ON	
STUDY STATUS	DA	OFF ON 1234	OFF ON 1200 4	OFF ON 1234	OFF ON 1234		
STI	RA	OFF ON 1234	OFF ON 1234	OFF ON 1234	OFF ON 1234		

NOTICE: We strongly recommend that JP1 switch should be set on running status in normal use.

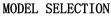
SBV SERIES FLANGED CAST IRON BALL VALVE BODY

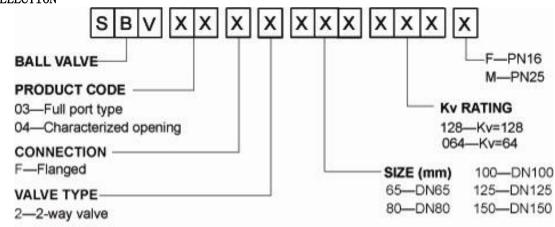
DESCRIPTION

SBV series flange casting iron ball valve bodies are widely used to control water flow in central air-conditioning, heating system. It has SBV03 full port model and SBV04 characterized opening model. Matched with SBA05 and SBA06 series actuator, the valve is driven by actuators and can be rotates to different angle. There are five sizes: DN65, DN80, DN100, DN125 and DN150. And there are full port and characterized opening types.



ACTUATOR APPLICATION	VALVE SIZE	ACTUATOR CONNECTION
SBA05	DN65, DN80, DN100	Screw cap & bolt
SBA06	DN125, DN150	Bolt





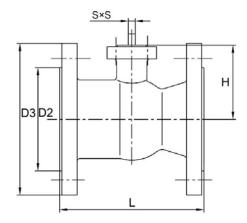
TECHNICAL DATA

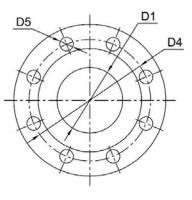
MODEL	ТҮРЕ	FLOW	RATE	SIZE	CLOSS OFF	RATED BODY
WODEL	ITE	Kv	Cv	SIZE	PRES. (MPa)	PRES. (MPa)
SBV03F265128F(M)	2-way full port	128	150	DNGE		
SBV04F265064F(M)	2-way chara. opening	64	64 75 DN65			
SBV03F280136F(M)	2-way full port 136 159		DN80			
SBV04F280102F(M)	2-way chara. opening	102	119	DINOU	0.6	1.6 (2.5)
SBV03F2100218F(M)	2-way full port	218	255	DN100		
SBV04F2100163F(M)	2-way chara. opening	163	190	DIVIOU		
SBV03F2125274F(M)	2-way full port	274	320	DN125		
SBV04F2125260F(M) 2-way chara. opening		260	304	DIVIZO	-	
SBV03F2150507F(M)	0507F(M) 2-way full port		593	DN150		
SBV04F2150416F(M)	2-way chara. opening	416	487	DIVISO		

MATERIALS & TECHNICAL DATA

	VALVE BODY	HT250					
	BALL	304 SS					
MATERIAL	VALVE SEAT	PTFE					
	VALVE STEM	304 SS					
	O-RING	NBR					
WORKING TEMP.		Chilled/hot water, ≤50% glycol					
MEDIA TEMP.		2∼94℃					
INICOIA							

DIMENSIONS (MM)





DIMEN	NSIONS	L	Н	D1	D2	D3	D4	D5	S×S	QTY OF FLANGE HOLES	HOLE THREAD
DN65	PN16 PN25	190	98	82	120	185	145	18	9×9	4 / 8	M16
DN80	PN16 PN25	190	98	82	136	200	160	18	9×9	8	M16
DN100	PN16	230	108	102	156	220	180	18	9×9	8	M16
DIVIOU	PN25	200	100	102	162	235	190	23	3/3	0	M20
DNI405	PN16	054	445	105	100	250	210	18	10×10	0	M16
DN125	PN25	254	115	125	188	270	220	26	12×12	8	M24
DN150 F	PN16	267	133	154	210	285	240	22	12×12	8	M20
DN150	PN25	207	155	134	215	300	250	26	12/12	0	M24

INSTALLATION & ADJUSTMENT

SBV series 2-way valve is match to SBA series actuator. Please notice that the mark "—" on valve stem indicates the ports on the valve ball. And make sure the Installation Mark is match with the slot on the actuator stem.

