

SBA06 SERIES BALL VALVE ACTUATOR

DESCRIPTION

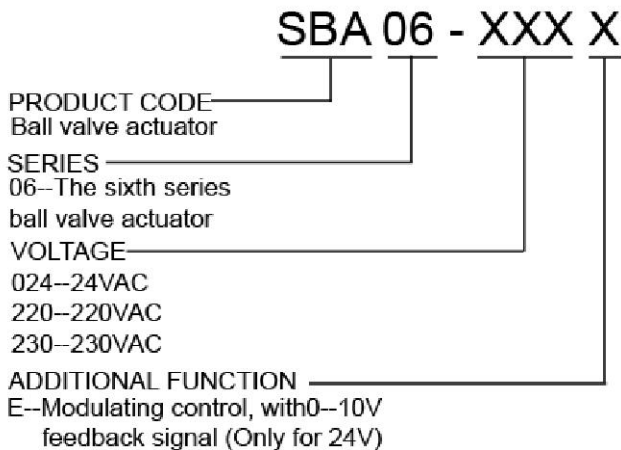
SBA06 series ball valve actuator is using bi-directional motor. Matching with SBV series flange ball valve, it is mainly used in central air-conditioning system, heating system, water treatment, and production industry to control the flow of chilled/hot medium.



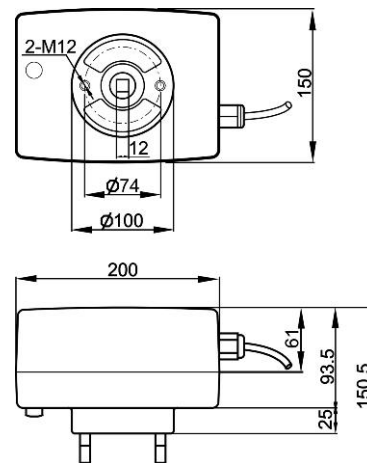
CHARACTERISTIC

- 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-DN200 flanged ball valve
- 0(2)~10V DC or 0(4)~20mA DC control input signal, proportional control, and 0~10V DC feedback signal.

SBA06 SERIES MODEL SELECTION



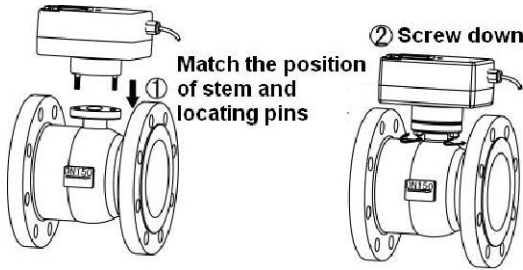
DIMENSIONS



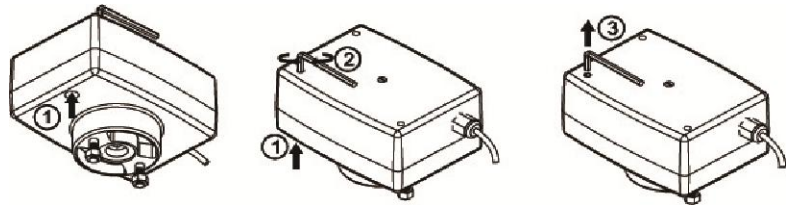
SPECIFICATIONS AND DATA

MODEL	SBA06-024E	SBA06-024	SBA06-220	SBA06-230
POWER SUPPLY	24VAC	24VAC	220VAC	230VAC
POWER CONSUMPTION	Load 11VA	Load 10VA		
CONTROL SIGNAL	0(2)~10V DC (input impedance: 200KΩ) or 0(4)~20mA DC (input impedance: 500Ω)	3 point floating signal		
FEEDBACK SIGNAL	0~10V DC (1mA)	—		
DEFAULT SETTING	Input signal: 0~10V DC; Mode: DA	—		
CURRENT FREQUENCY	50/60Hz			
TORQUE	≥65Nm			
OPERATION TIME (0~90°)	120s (50Hz) / 100s (60Hz)			
ROTATABLE ANGEL	90° < Limiter ≤ 95°			
CONNECTING WIRES	0.5~1 mm ²			
MATERIAL	HOUSING	Fireproof ABS engineering plastic		
	CHASSIS	Die-casting aluminum alloy		
	GEAR	Brass HPb59-1; Steel 40Cr,45		
OPERATION TEMP.	-5~+50°C			
STORAGE TEMP.	-30~+70°C			
IP CLASS	IP54			

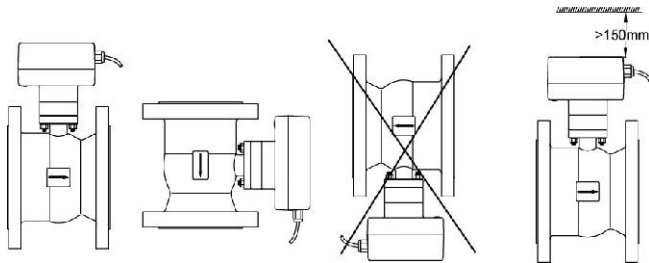
INSTALLATION



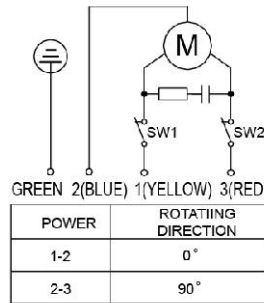
MANUAL LEVER



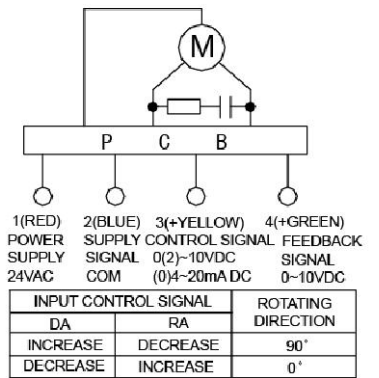
DIMENSIONS



WIRING



PCB WIRING

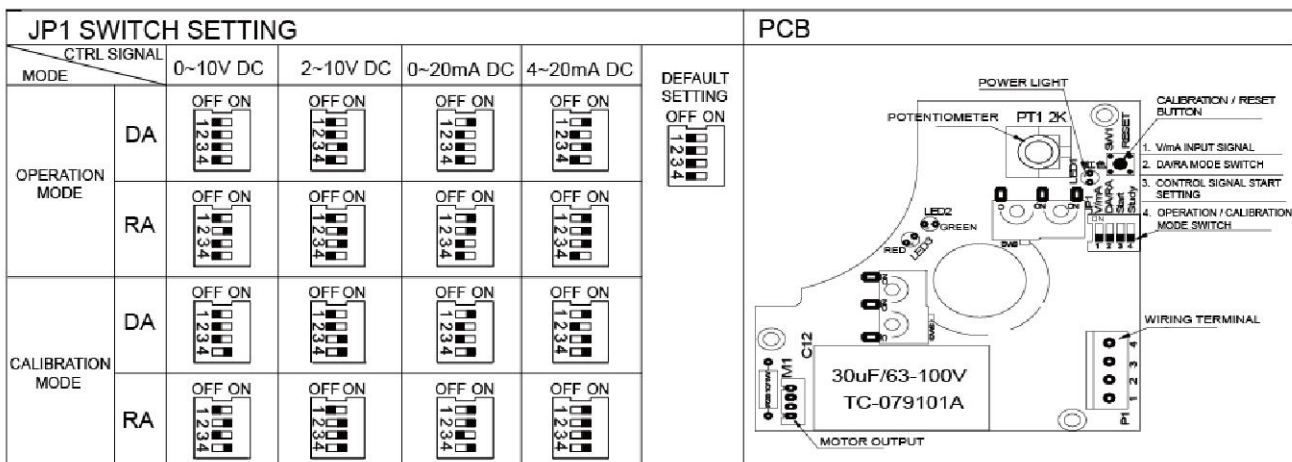


WARNING:

- Cut off power supply when repairing or maintaining.
- Do not connect or disconnect wire when power is on.
- Please install the actuator cover properly when the actuator is working.

PCB SETTING

- Calibration mode:** After power is on, set JP1 switch "4" to position "ON" as request (refer to the below JP1 switch setting diagram) , then press SW1 calibration/reset button, power LED is flashing during calibration, and the actuator stem is rotating till to the end (has reached the end position of ball valves). Afterward the stem will rotate back to initial position. Power LED will stop flashing after the calibration mode is over. MCU will keep the position data in memory even power is off. Then JP1 switch "4" is needed to set to "OFF" after the calibration is finished and back to operation mode. If this JP1 switch"4" is forgotten to set to "OFF" during operation, the actuator will operate as usual, but it will go through the calibration mode every time when power is on
- Operation mode:** When power is on, the actuator will work according to the control signal.
- Calibration/operation mode shift:** If user needs to switch calibration/operation mode, make sure the JP1 has been set correctly, then press SW1 calibration/reset button. Don't need to cut off power.



NOTE: we strongly recommend that JP1 switch should be set on operation mode in normal use.