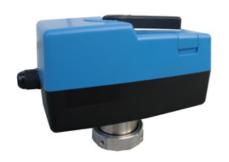
DESCRIPTION

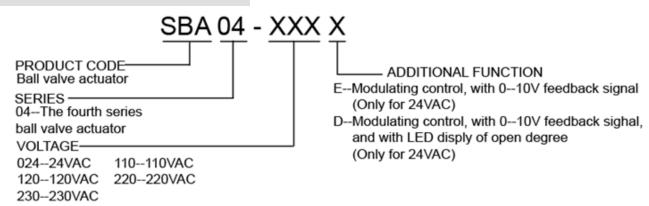
SBA04 series ball valve actuator is using bi-directional motor. Matching with SBV series ball valve, it is mainly used in central air-conditioning system, heating system, water treatment, and production industry to control the flow of chilled/hot medium

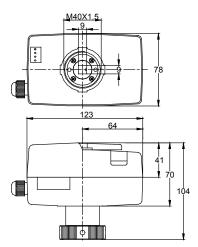


CHARACTERISTIC

- Bi-directional AC motor
- Apply to valves of DN32 to DN50 (can be also apply to valves of DN15-25 as per request)
- Fire-retardant ABS engineering plastic, measure up UL94V-0 standard
- With manual switch and position indicator
- Floating type or modulating type (with internal PCB)
- Detachable design, easy to install and maintain
- · Fluid temperature and ambient temperature are hard to reach inside of actuator
- · High reliable and safety requirement level
- Actuator manual handle can be disassembled to install on the valve stem for opening or close the valve
- 0(2)~10V dc or 0(4)~20mA dc control input signal, proportional control
- 0~10V feedback signal
- With LED open degree display for option

MODEL SELECTION



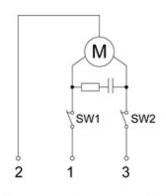


SPECIFICATIONS AND DATA

MODEL		SBA04-024E	SBA04-024D	SBA04 -024	SBA04 -110	SBA04 -120	SBA04 -220	SBA04 -230	SBA04 -240
POWER SUPPLY		24Vac	24Vac	24Vac	110Vac	120Vac	220Vac	230Vac	240Vac
POWER CONSUMPTION		4VA	4.5VA	3VA 5VA			2.0		
OPEN DEGREE DISPLAY		N/A	Yes	N/A					
CONTROL SIGNAL		0(2)~10V impedance or 0(4)~20mA impedance	e: 200ΚΩ) r dc (input	3 point floating signal					
FEEDBACK SIGNAL		0~10Vdc (1mA)		_					
DEFAULT SETTING		Input signal: 0 Mode: DA	: 0~10Vdc;						
CURRENT FREQUENCY		50/60Hz							
TORQUE		≥5Nm							
OPERATION TIME		≈50s (50Hz, 90 °)							
MAXIMUM ANGLE		90° <limiter≤95°< th=""></limiter≤95°<>							
CONNECTING WIRES		0.5~1 mm ²							
	COVER	Fireproof ABS engineering plastic							
MATERIAL	CHASSIS	Fireproof Reinforced nylon PA6-110							
	GEAR	POM (polyoxymethylene) + Brass HPb59-1 + iron-base powder metallurgy							
OPERATION TEMP.		-5~+50℃							
STORAGE TEMP.		-30~70℃							
IP CLASS		IP54							

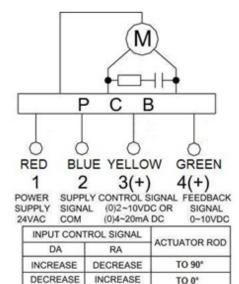
Wiring Diagram

WIRING



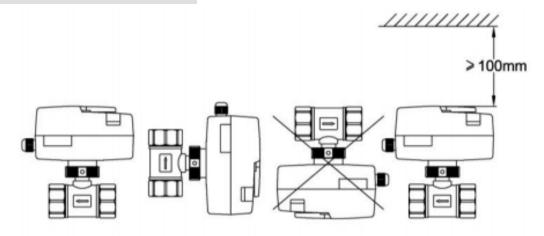
POWER SUPPLY	ROTATE TO				
1-2	0°				
2-3	90°				

PCB WIRING

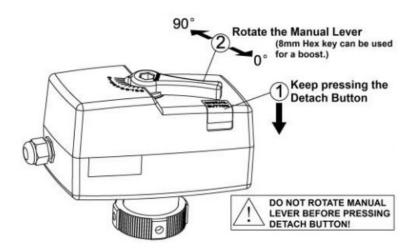


TO 0°

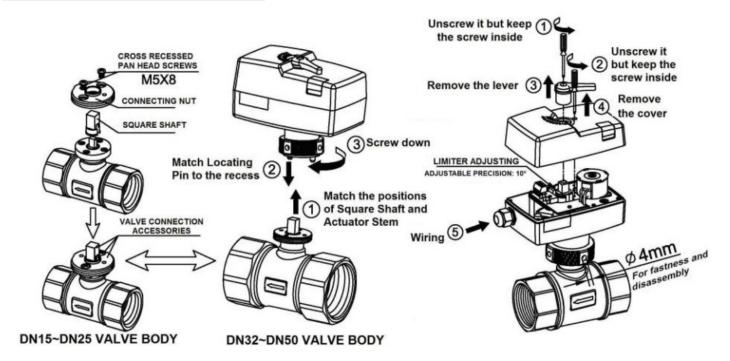
INSTALLATION INSTRUCTION



MANUAL SWITCH



ACTUATOR INSTALLATION



PCB SETTING

- 1. Calibration mode: After power is on, set JP1 switch "4" to position "ON" as request (refer to the below
- 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 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
- 2. Operation mode: When power is on, the actuator will work according to the control signal.

