

# VA-1000 SERIES ACTUATOR

## DESCRIPTION

VA-1000 series actuator is a kind of electronic and mechanical product; it can be matched with SR2000, SR2010 and SRV061 series valve body by different connectors. As VA-1000 series actuator is connected with valve by connecting nut, so it can be installed after the valve has been installed. It can be installed on field, and its wiring is flexible and convenient. The flat-designed actuator makes it possible to be installed more closely to wall, and takes little space. The product is reliable and durable. It operates with reversible motor and can provide increasing control signal. It has low working noise and can work reliable in high temperature condition, which often appears in concealed fan coil devices.

## CHARACTERISTICS

- Driven by bi-directional synchronous motor with low AC voltage.
- Magnetism clutch.
- Action transmitted by using plastic gear group, and low noise.
- Fireproof ABS engineering plastic casing.
- Convenient field installation.
- With protection function against over-time operating of motor and losing control signal.

## OPERATION

Actuator is driven by a bi-directional synchronous motor and with magnetism clutch. Through the magnetism effect generated by motor rotor and clutch, motor can generate stable torque in pause situation. So the motor can stop at any point if no current pass through it. Actuator's increasing signal can make motor run in clockwise or anti-clockwise.

## NOTE

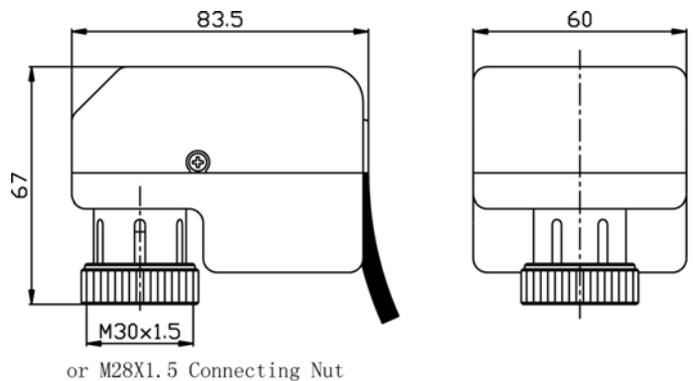
- Actuator must be prevented from leakage that will damage internal parts and motor.
- Actuator can not be covered by heat insulation materials.

## SPECIFICATION

VA-1100Series	VA-1200Series	Technical Data
VA-1100-C1	VA-1200-C1	24VAC, Normal
VA-1100-C2	VA-1200-C2	110VAC, Normal
VA-1100-C3	VA-1200-C3	120VAC, Normal
VA-1100-C4	VA-1200-C4	220VAC, Normal
		230VAC, Normal
VA-1101	VA-1201	24V With Overtime Protection Function



## DIMENSIONS (mm)



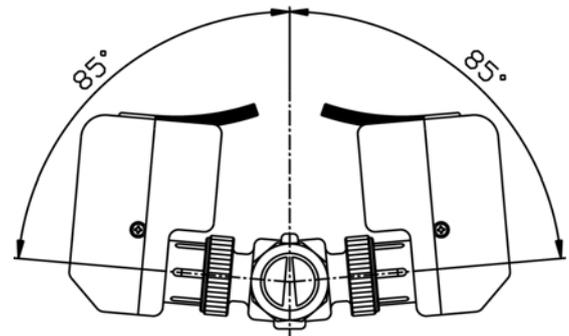
or M28X1.5 Connecting Nut

Wire length: 30cm

## WARNING

- When repairing the actuator, power must be off to avoid damaging parts or loss caused by electricity leakage.
- When power on, don't try to connect or disconnect

## INSTALLATION INSTRUCTION



## SPECIFICATION

MODEL	VA-1100 Series	VA-1200 Series
OPERATION/CONTROL	Reversible, Increasing control	
MOTOR TYPE	Bi-directional synchronous motor with external magnetic clutch	
MOTOR ELECTRICAL RATING	24VAC or 110VAC, 50/60Hz 3VA	
	220VAC or 230VAC, 50/60Hz 5VA	
NORMAL TORQUE	80~100N	200~250N
MATERIAL (All Model)	GEAR	POM plastic
	ROD	POM plastic
	CASING	Fireproof ABS plastic (UL94V-0)
	GEAR DOWN PLATE	Zinc-galvanized plate
OPERATION TIME	50Hz: 10sec/mm	
	60Hz: 8.3sec/mm	
MAX STROKE	8mm	
ROOM TEMPERATURE (All Model)	OPERATION:	2~55°C
	STORAGE:	-20~65°C
MAX. RH	<90% No condensation	
CONNECTION WIRE	0.5 ~ 1.5mm <sup>2</sup>	
CONNECTING TYPE	Use connecting nut M30x1.5 to match with SRV061 series valve.	Use connecting nut M28x1.5 to match with SR2000 and SR2010 series detachable valve.

## WIRING DIAGRAM

