SQV Valve Actuator

24 Vac/dc, Floating or Proportional Control Floating, 0-10 V or 4-20 mA Spring Return





SQV Series Electro-Motoric Valve Actuators

Description

Pressure Independent Control Series SQV Electro-Motoric Valve Actuators require a 24 V ac or dc power supply and receive a floating, 0-10 V or 4-20 mA signal to control a valve. The SQV Actuators are available as either fail open or fail closed when used with the Siemens Flanged Pressure Independent Control Valves.

These actuators are designed to work the 2-1/2 and 3 inch Pressure Independent Control Series Valves with a 3/4-inch (20 mm) stroke and the standard Siemens Flowrite bonnet connection.

Features

- Operating voltage: AC/DC 24V
- · Control signals: 3-position, DC 0 to 10V, DC 4 to 20 mA
- · Fail-safe function
- · Position feedback
- · Manual adjuster
- · Position and status indication (LED)
- Selectable positioning times from 40 to 120 seconds for 3/4 inch (20 mm) Stroke
- · Selection of acting direction and flow characteristic
- Direct mounting on Pressure Independent Control Valves
- · UL Listed

Applications

Electro-Motoric actuators to operate Siemens Pressure Independent Control Valves with 20 mm stroke as control valves for large air handling units and distribution of hot and chilled water.



SQV Series Electro-Motoric Valve Actuator Specifications

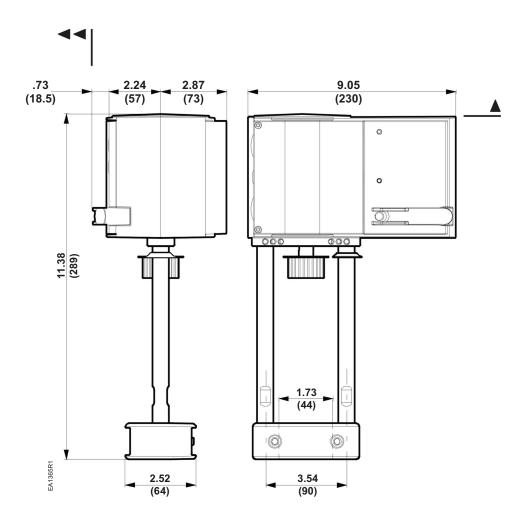
Operating Voltage	24 Vac ±20%
	24 Vdc ±15%
Frequency	50 to 60 Hz
Fusing of Supply Lines	10 Amp slow
Power Consumption	20 VA/7.5 W
Operating Data	
	40 seconds
	ult for 20 mm stroke) Positioning time
	depends on the DIP switch setting.
	≥ 1100 N
	20 mm to 40 mm
Admissible temperature of mediu	
	34°F to 248°F (1°C to 120°C)
Signal Inputs	
	3-position
voitage	24 Vac ±20% 24 Vdc ±15%
Terminal Yu	24 VUC ±15%
	0 to 10 Vdc
	≥ 100K Ω
Terminal Yi	
	DC 4 to 20 mA
	50 Ω
Fail-safe Function	
Terminal G	
	Loss of operating voltage
	Actuator stem retracted, pressure
	independent valve fully open (100%)
SQV91P40U	Loss of operating voltage
	Actuator stem extended, pressure
	independent valve fully closed (0%)
Spring return time	15 seconds

Position Feedback Position feedback U	DC 0 to 10V + 1%
Load impedance	
Load	
Electrical Connections	
Wire cross-sectional areas	14 to 30 AWG
Cable entries (1/2" conduit adapter include	ed) 2 openings M20 x 1
	1 opening M16 x 1.5
Degree of Protection	
Housing from vertical to horizontalInsulating class, AC/DC 24V	
Environmental Conditions	
Operation	
Mounting location	Indoors (weather-protected)
Temperature	32°F to 122°F (0°C to 50°C)
Humidity (non-condensing)	<95% rh
Transport	
Temperature2	
Humidity	<95% rh
Storage	
Temperature2	,
Humidity	5 to 95% rh

SQV Series Actuator Product Ordering

Description	Part No.	Actuator Prefix Code
Floating, 0 to 10V or 4 to 20mA, Normally Open	SQV91P30U	238
Floating, 0 to 10V or 4 to 20mA, Normally Closed	SQV91P40U	239





Dimensions shown in inches (mm).