

## 4. VB-7000 Globe Valves Actuators & Linkages

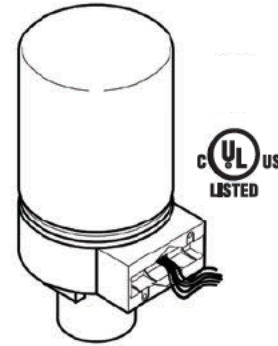
# MPR-561x SR Hydraulic Proportional SR Actuators

### Application

These MPR-561x Series actuators provide electronic proportional control of valves requiring return to normal position upon power interruption. They are compatible with controllers generating 4...20 mA input signals.

### Features

- Spring return.
- 24 and 120 Vac models available.
- Die cast lower housing with ½" conduit opening and painted steel upper housing.
- Hydraulic actuator with oil-immersed motor, transducer, and pump.
- Proportional actuators controlled by a variable mAdc input signal.
- 82.5 Ω input impedance.
- Adjustable actuator startpoint.



MPR-561x Series Proportional

### Model Table

Part Number	Actuator Power Input					Input Signal	Timing in Seconds @ 72° F (22° C) No load stroke		Linkage
	AC Voltage ±10%	60 Hz		50 Hz			Extend	Retract	
		Watts	Amps	Watts	Amps				
MPR-5610	120	11.7	0.16	12.9	0.19	4...20 mA	60	30	AV-600 AV-601 <sup>a</sup>
MPR-5613	24	12.0	0.80	13.2	0.97				

a - May be required for steam or hot water.

### Specifications

Inputs	
Control Circuit	MPR-561x Series: Two-wire.
Input Impedance	82.5 Ω for 4...20 mA input.
Power Input	Refer to Model Table
Connections	Color-coded 4 ft. (1.2 m) leads.
Outputs	
Electrical	Position signals: Internal feedback circuitry provides positive positioning of the valve in relation to the controller signal. Startpoint adjustment: Adjustable potentiometer provides manual adjustment of the actuator startpoint.
Mechanical	Stroke, Valve: Approximately 9/16" (14.3 mm) from fully retracted to fully extended. Proportional output torque ranging of 15 lb-in (1.7 N-m), available throughout the entire stroke, based on the lowest force available under normal operation, the spring return stroke, or at a minimum (-10%) supply voltage.
Environment	
Temperature Limits	Shipping & Storage: -40...140° F (-40...60° C) Operating: -20...140° F (-29...60° C) Operating, Valve: Refer to Pg. 29, 2. VB-7000 Series ½"...2" Globe Valves
Humidity	5...95% RH, non-condensing
Location	NEMA Type 1
Dimensions	MP-5x1x: 6¼ x 3¾" (171 x 83 mm)
Regulatory Compliance	RoHS and REACH