

Direct Coupled Valve Actuators

ML6420; ML7420

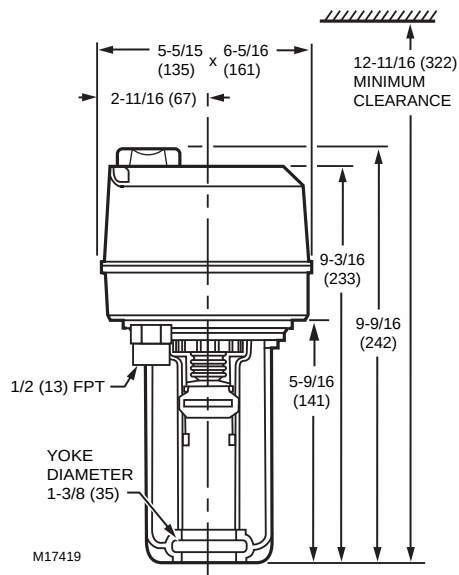
Non-Spring Return Direct Coupled Globe Valve Actuators



Direct Coupled Globe Valve Actuators provide floating or modulating control of chilled water, hot water, or steam, and mount directly on VGF series, V5011, and V5013 globe valves from 1/2 to 3 inches.

- Easy and quick installation on valves with 1 3/8" bonnet and 3/4" stroke
- No separate linkage required
- Conduit connector standard
- No adjustments required on linkage
- Accurate valve positioning
- Low power consumption
- High close-off ratings
- Force limiting end switches
- Manual operator
- Synchronous motor
- Maintenance free
- ML7420 has an internal selector plug that can be used to reverse the direction of action

Dimensions in inches (millimeters)



Actuator Type: Valve

Fail Safe Mode: Stays in place

(Rated) Stem Force: 135 bf (600 N)

Cable Entry: Conduit connector and one knockout on actuator case

Electrical Protection: Class I Insulation (24 Vac)

Electrical Connections: Screw terminals

Ingress Protection Rating: IP54

Frequency: 50 Hz; 60 Hz

Number of Internal Auxiliary Switch: 0

Manual operation: Knob

Mounting: Directly on V5011/V5013 Globe Valves and VGF Flanged Globe Valves (3/4" or 20mm stroke)

Stroke: 3/4 in. (20 mm)

Supply Voltage: 24 Vac $\pm$ 15%

Materials: ABS-FR Plastic, aluminum yoke

Operating Humidity Range (% RH): 5 to 95% RH

Medium Temperature: 300 F Maximum (150 C Maximum)

Ambient Temperature Range: 14 F to 122 F (-10 C to +50 C)

Storage Temperature Range: -40 F to +158 F (-40 C to +70 C)

Weight: 2.9 lb (1.3 kg)

Includes: 1/2 in. conduit hub; 1/2 in. flexible conduit adapter

Approvals

Canadian Standards Association: Certified

CE: Listed

Underwriters Laboratories, Inc: UL94-5V

Accessories:

43191679-111-Potentiometer, 10k ohm, for ML6420 only

43191679-112-Potentiometer, 220 ohm, for ML6420 only

43191680-105-Dual Auxiliary Switch for CREVAL actuators, for ML6420 only

43196000-001-High Temperature Kit for actuators with 3/4 inch (20 mm) stroke, stem button attachment

312495-Large stem button provides anti-spin for globe valves up to 3 in. (1/4-28UNF stem) with ML6420, ML7420, ML6421A, ML7421A, ML6425, and ML7425 actuators. Not required with ML6984/7984 actuators or Q5022A linkage; not compatible with Q5020 linkage.

Product Number	Control Signal	Feedback	Timing (seconds)	Power Consumption	Input Impedance
			Nominal Driving @ 60 Hz	(Driving)	
ML6420A3049	SPDT; Floating; Two position	—	60 sec	6 VA	—
ML6420A3056	SPDT; Floating; Two position	—	30 sec	6 VA	—
ML7420A3055	2 to 10 Vdc; 0 to 10 Vdc	2-10 Vdc	60 sec	7 VA	1K ohm
ML7420A3063	2 to 10 Vdc; 0 to 10 Vdc	2-10 Vdc	30 sec	7 VA	1K ohm