## Cartridge Globe Valve Actuators

## M6410; M7410 Cartridge Globe Valve Actuator



Cartridge Globe Valve Actuator are small electric actuators for individual room control that provide floating or modulating control of V5852, V5862 two-way or V5853, V5863 three-way valves.

- Suitable for Excel/IRC system or other controllers providing specified signals
- Magnetic coupling for torque limitation independent of voltage supply and self-adjustment of the close-off port
- No mounting tools required
- Small size allows installation in limited space of fan coil units, induction units, and small reheaters or recoolers
- Visual position indication (red pin)

Dimensions in inches (millimeters)


Actuator Type: Valve
Fail Safe Mode: Stays in place
Cable Entry: Threaded conduit connector
Electrical Protection: Class I Insulation (24 Vac)
Electrical Connections: Plenum-rated cable
Ingress Protection Rating: IP42
Feedback: No
Frequency: $50 \mathrm{~Hz} ; 60 \mathrm{~Hz}$
Timing (seconds): Nominal Driving @ 60 Hz: 125 sec.
Number of Internal Auxiliary Switch: 0
Manual operation: None (use valve dust cap)
Mounting: Threads onto V58XX valve bonnet
Stroke: $1 / 4 \mathrm{in}$. ( 6 mm )
Supply Voltage: 24 Vac +10/-30\%

## Materials

Low Maintenance Plastic Housing
Operating Humidity Range (\% RH): 5 to 95\% RH
Medium Temperature: 266 F Maximum (130 C Maximum)
Ambient Temperature Range: 32 F to 122 F (0 C to 50 C )
Storage Temperature Range: -40 F to $+158 \mathrm{~F}(-40 \mathrm{C}$ to $+70 \mathrm{C})$
Weight: $0.3125 \mathrm{lb}(0.15 \mathrm{~kg})$
Includes: $1 / 2$ in. conduit hub
Approvals
Underwriters Laboratories, Inc: UL94-5V

| Product Number | Control Signal | Power Consumption | Input Impedance | (Rated) Stem Force |  | Comments | Used With |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | (Driving) |  | (lb-in.) | (Nm) |  |  |
| M6410A1029 | SPDT; Floating; Two position | 0.7 VA | - | 40.5 bf | 180 N | - | 1/2 inch and $3 / 4$ inch V58XX Globe Valves |
| M6410A3017 | SPDT; Floating; Two position | 0.7 VA | - | 67.5 bf | 300 N | High force for metal-seated valves | 1 inch to 1-1/2 inch V58XX Globe Valves |
| M7410F1000 | 2 to 10 Vdc ; 0 to 10 Vdc | 1.4 VA | 100K ohm | 40.5 bf | 180 N | Direct/Reverse Acting Switch | 1/2 inch and 3/4 inch V58XX Globe Valves |
| M7410F3006 | 2 to 10 Vdc ; 0 to 10 Vdc | 1.4 VA | 100K ohm | 67.5 bf | 300 N | High force for metal-seated valves; Direct/Reverse Acting Switch | 1 inch to 1-1/2 inch V58XX Globe Valves |

