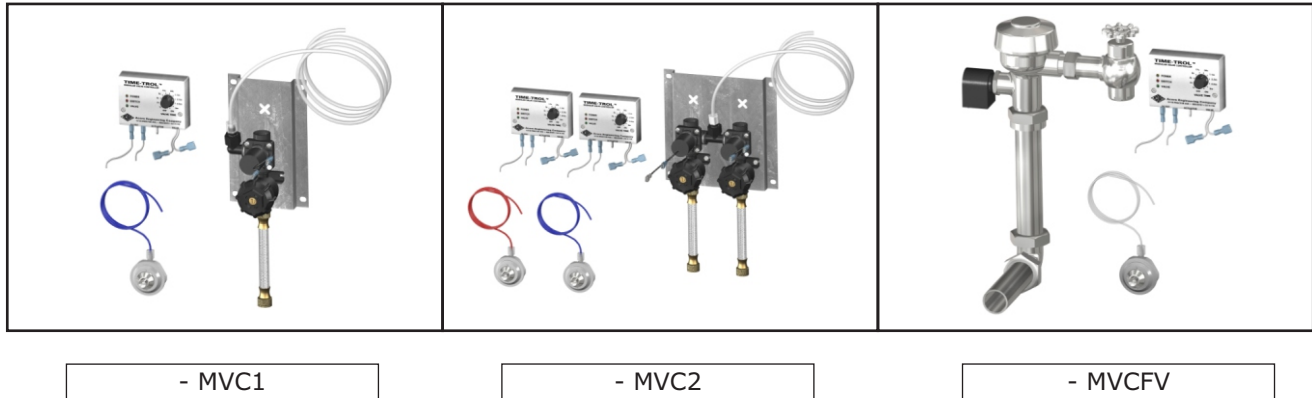




## Valves: MVC Series

### Time-Trol Valve Selection



Graphic May Show Some Available Options

Please visit [www.acorneng.com](http://www.acorneng.com) for most current specifications.

## Time-Trol Valve Selection

**Valve Suffix Option -MVC, Modular Valve Controller** provides an Acorn Time-Trol System for water metering through precise electronic control of the solenoid valve provided.

**Flush Valve Suffix Option -MVCFV, Modular Flush Valve Controller** provides an Acorn Time-Trol System for limiting frequency of flush valve operation through precise electronic control of a solenoid flush valve.

**The Time-Trol System** uses a pneumatic actuator requiring less than 5 pounds of push on the fixture pushbutton to activate the timing cycle/flush valve. The pneumatic actuator tube easily attaches to the Modular Valve Controller.

**The Modular Valve Controller (-MVC/-MVCFV)** is provided with quick connect terminals for easy connection to both the solenoid valve and a low voltage 24 VAC transformer. Transformer to be provided by others, unless -TF Transformer option is specified and ordered from Acorn. Controller can be remotely located up to 100 feet from the actuating button and 50 feet from the solenoid valve using additional tubing and wiring. For security installations, the controllers could be in the chase area or centrally located in guarded control rooms.

**Colored Indicator Lights** are provided on each Modular Valve Controller to permit quick and easy diagnosis in the unlikely event of a malfunction. For instance:

1. As long as there is power to the -MVC the amber "power" light will remain on.
2. The red "switch" light goes on upon pushing in the pneumatic actuator pushbutton, and shuts off upon release of the pushbutton.
3. The green "valve" light stays on indicating that contacts are closed, and the solenoid valve is open. Green light goes off at the end of the timing cycle.

**Suffix Option -CI Cycle Interrupt** is optionally available with -MVC valve metering. This feature enables the user to terminate the metering cycle at any time by simply pushing the pneumatic actuator pushbutton on the fixture. This option is not applicable to -MVCFV flush valve lockout control.

**Specification with Column Showers** requires that controllers be located remotely and solenoid valves must be positioned either: 1) above unit within optional -SC Supply Cover, 2) within a top valve cover, or 3) also located remotely.

**Optional Brass Valve** body & checkstop assembly available, provides the lead free requirements of NSF61, Section 9, 1997; and CHSC 116875.

### GUIDE SPECIFICATION - Add to fixture specification following model number selected:

**For Water Metering:** Provide and install the Acorn Time-Trol System Option -MVC, Modular Valve Controller with optional -CI, Cycle Interrupt feature using low voltage, 24 VAC power (by others). Provide a solenoid valve made with non-corrosive wet parts. **For Flush Valve Lockout:** Provide and install the Acorn Time-Trol System Option -MVCFV, Modular Flush Valve Controller with solenoid type flush valve using low voltage, 24 VAC power (by others). Stainless steel fixture pushbutton shall be vandal-resistant and shall pneumatically actuate the Modular Valve Controller, with no electrical impulse at the pushbutton. Pushbutton shall require no more than 5 lbs. pressure to activate the system. Valve timing/lockout cycle shall have 10 preset intervals ranging from 1 second to 9 minutes, easily adjustable with a knob. Modular Valve Controller shall have colored lights to indicate system is functioning and permit easy trouble shooting.



# Valves: MVC Series Time-Trol Valve Selection

## MODEL NUMBER AND OPTIONS SECTION

### WATER METERING SHOWER-WARE SHOWERS

#### BASE MODEL NUMBERS (Must Specify)

- 100/400-MVC1 Acme & Apex Shower Time-Trol, Single Temperature  
**Valve:**  Remote  Within Unit  
**Controller:**  Remote  Within Unit
- 600/700-MVC1 Classic & Capital Column Shower Time-Trol, Single Temperature  
**Valve:**  Remote  Above Unit  
**Controller Must Be Remote.**

#### Product Options

- BRS Brass Valve Body & Checkstop
- CI Cycle Interrupt
- TF Transformer-Remote (1-9 Solenoids)

### WATER METERING COMBIES, LAVATORIES, DRINKING FOUNTAINS, & SECURITY SHOWERS

#### BASE MODEL NUMBERS (Must Specify)

- MVC1 Time-Trol, Single Temperature (Drinking Fountains)
- MVC2 Time-Trol, Hot & Cold

#### Product Options

- BRS Brass Valve Body & Checkstop
- CI Cycle Interrupt
- MA Manifoldded Valve:
  - 2 (Max. Showers)  3  4
- TF Transformer- Remote (1-9 Solenoids)

### FLUSH VALVE LOCKOUT COMBIES, TOILETS & URINALS

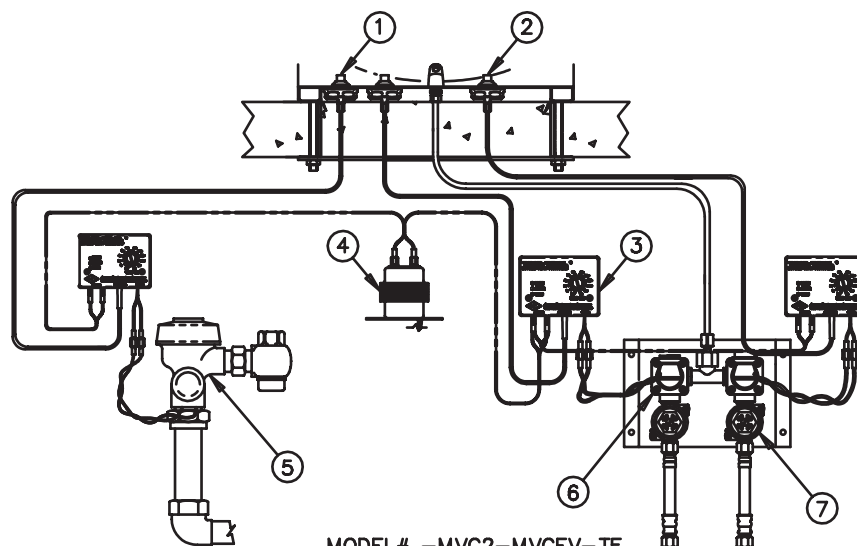
#### BASE MODEL NUMBERS (Must Specify)

- MVCFV Time-Trol Electronic Flush Valve
- Flush Valve Requirements (Must Specify):**
- 1.0 GPF- Washout Urinals Only
  - 1.28 GPF- Toilets Only
  - 1.5 GPF- Washout Urinals Only
  - 1.6 GPF- Toilets Only
  - 3.5 GPF- Toilets & Blowout Urinals

#### Product Options

- FTE Flood-Trol Anti-Flood System (Electronic) - Toilets Only
- TF Transformer - Remote (1-9 Solenoids)

Please visit [www.acorneng.com](http://www.acorneng.com) for most current specifications.



MODEL# -MVC2-MVCFV-TF  
MODULAR VALVE CONTROLLER LAYOUT FOR COMBINATION FIXTURE

#### NOTES:

1. Flush Valve Pneumatic Pushbutton.
2. Lavatory Pneumatic Pushbuttons.
3. Time-Trol Valve Controllers.
4. Optional -TF Transformer.
5. Optional Solenoid Flush Valve -MVCFV.
6. Hot & Cold Solenoid Valve -MVC2.
7. Checkstop and Strainer Assembly.

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

<p><b>Important:</b> Installation instructions and current rough-in are furnished with each fixture. Do not rough in without certified dimensions. Dimensions are subject to manufacturer's tolerance of plus or minus 1/4" and change without notice. Acorn assumes no responsibility for use of void or superseded data. © Copyright 2004 Acorn Engineering Company</p>	
<p style="text-align: center;">Selection Summary</p> <p>Model No. &amp; Option _____</p> <p>Quantity _____</p>	<p style="text-align: center;">Approved for Manufacturing</p> <p>Company _____ Title _____</p> <p>Signature _____ Date _____</p>