



## Valves: EVS Series

### MASTER-TROL BASIC SYSTEMS OVERVIEW



-EVS-FV-EVS2

Graphic May Show Some Available Options

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

## MASTER-TROL BASIC SYSTEMS OVERVIEW

This sheet to be used in conjunction with additional EVS Master-Trol Valve Selection submittal.

### **Unmonitored Controller Only System:**

Consists of an Electronic Valve Controller factory preprogrammed per customer specifications. There may be one or more valve controllers existing independently. In this system, the valve controllers are not linked. Programming may be altered in the field by using the suffix option -CPT Computer Palmtop. Each controller can operate up to 12 solenoid valves.

### **Unmonitored Single Versa-Link System:**

Enables one Versa-Link to connect up to 32 Electronic Valve Controllers without a computer to monitor use. The valve controller(s) are factory preprogrammed per customer specifications. The programming for all the valve controllers within the link may be altered from a single location on the link using an optional -CPT Computer Palmtop or -CLT Computer Laptop. Each link can connect up to 384 solenoid valves.

### **Monitored Single Versa-Link System:**

Enables one Versa-Link to connect up to 32 Electronic Valve Controllers. The controllers are programmed and monitored in the field with an optional -CLT Computer Laptop or -CDT Computer Desktop. Each link can monitor and control 384 solenoid valves.

### **Monitored Multiple Versa-Link System:**

Enables up to eight Versa-Links, with each link connecting as many as 32 Electronic Valve Controllers. The controllers are programmed and monitored in the field with an optional -CDT Computer Desktop. The computer includes a RS-485 interface card (which allows the connection of up to 8 Versa-Links). This system can monitor and control up to 3,072 solenoid valves.

### **COMPUTER OPTIONS**

**-CDT Computer Desktop** is a personal computer which enables the user to field program and monitor the Electronic Valve Controllers. The desktop computer includes a RS-485 interface card which allows control of up to eight Versa-Links.

**-CLT Computer Laptop** is a portable laptop computer which enables the user to field program and monitor the Electronic Valve Controllers. The Laptop Computer includes the RS-485 interface adapter which allows control of one Versa-Link at a time.

**-CPT Computer Palmtop** is a portable palmtop computer which enables the user to field program a single Electronic Valve Controller or one Versa-Link with up to 32 controllers at a time.

### **STANDARD OPERATING FEATURE:**

**Remote Operation** - Allows the computer operator to remotely actuate a valve on, or remotely shut a valve off, overriding other controls.

### **OPTIONAL PROGRAMMABLE FEATURES:**

**Valve On Time** - Refers to the programmed metering cycle for valve use. The valve will operate for the duration of this timed period.

**Lock-Out Time** - Refers to a programmed Lock-Out interval between valve metering cycles. The valve will be disabled for the duration of this timed period.

**-CI Cycle Interrupt** permits manual ON/OFF control. One push of the button initiates a programmed metering cycle, a second push during the cycle will stop the cycle.

**-SC Single Cycle** - One push of the button initiates a programmed metering cycle. The valve will complete this cycle even if the button is subsequently pushed or held depressed during the cycle.

**-TM Terminated Cycle** - One push of the button initiates a programmed metering cycle. If button is pushed during this cycle, flow will stop and will not restart until programmed cycle end.



# Valves: EVS MASTER-TROL BASIC SYSTEMS OVERVIEW

## MODEL NUMBER AND OPTIONS SELECTION

**MUST SPECIFY NUMBER OF CONTROLLERS REQUIRED:**

If quantity differs from Acorn factory quote, additional controllers are at additional cost.

### BASE MODEL NUMBER(Must Specify)

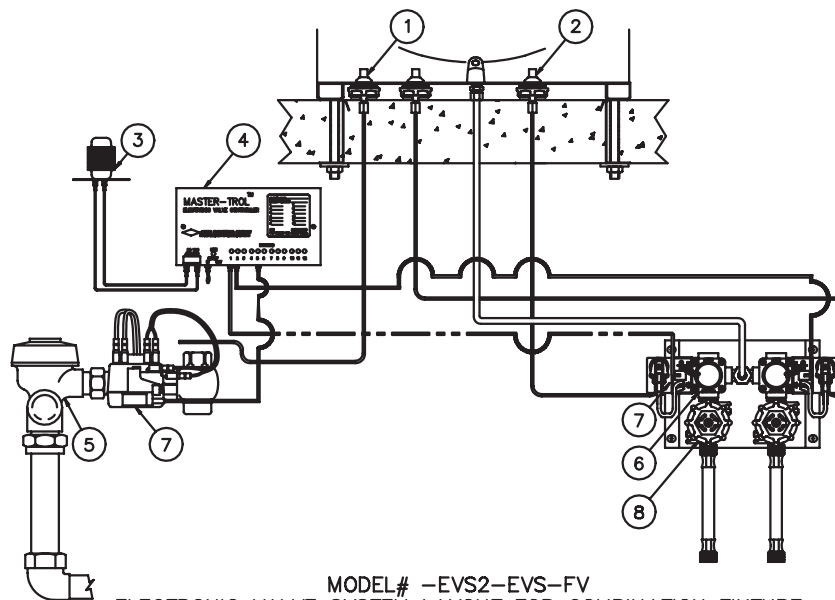
- CDT Computer Desktop - Up to Eight Versa-Links
- CLT Computer Laptop - One Versa-Link Only
- CPT Computer Palmtop - One Controller/One Versa-Link

### PREPROGRAMMING & OPTIONS REQUIREMENTS (From Factory):

LINK # _____ (From 1 to 8)	CONTROLLER ADDRESS # _____ (From 1 to 32)											
Station #	1	2	3	4	5	6	7	8	9	10	11	12
Valve On Time (See Note Below)	seconds	seconds	seconds	seconds	seconds	seconds	seconds	seconds	seconds	seconds	seconds	seconds
Lock-Out Time	minutes	minutes	minutes	minutes	minutes	minutes	minutes	minutes	minutes	minutes	minutes	minutes
-CI Cycle Interrupt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-SC Single Cycle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-TM Terminate Cycle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: Valve On Time for -EVS-FV Master-Trol Electronic Flush Valve selection is 4 seconds only.

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MODEL# -EVS2-EVS-FV  
ELECTRONIC VALVE SYSTEM LAYOUT FOR COMBINATION FIXTURE

**NOTES:**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>1. Flush Valve Pneumatic Pushbutton -EVS-FV.</li> <li>2. Lavatory Pneumatic Pushbutton -EVS2.</li> <li>3. Transformer Provided Standard.</li> <li>4. Electronic Valve Controller -EVS2, -EVS-FV.</li> </ul> | <ul style="list-style-type: none"> <li>5. Solenoid Flush Valve -EVS-FV.</li> <li>6. Hot &amp; Cold Solenoid Valve -EVS2.</li> <li>7. Branch Box/Pneumatic Switch.</li> <li>8. Checkstop and Strainer Assembly.</li> </ul> |
|--|---|

<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>