

ValvApp™ Worksheet



This worksheet is intended for the configuration of ValvApps™ used in the VC-22D Valve Controller. From the information provided below, Cla-Val will determine whether a standard ValvApp™ should be used or if a custom ValvApp™ is required. Additionally, this worksheet acts as a check list during commissioning to verify all parameters have been correctly configured in the VC-22D Valve Controller. Once this worksheet is completed, please return to your Cla-Val representative for approval. If a custom ValvApp is required and approved, a custom wiring diagram and ValvApp™ will be created and emailed to you. Please verify all *Required fields have been filled out prior to submittal.

Information		Configuration:	
<p>*Project Name</p> <p>*Cla-Val Representative</p> <p>Control Valve Model Number (if known)</p>	<p>*Today's Date</p> <p>Project Completion Date</p> <p>Customer Approval Signature</p>		
Valve Regulation <i>(If more than 2 PID's are required, specify in logic on page 2)</i>			
<p>PID 1 - Valve Regulation</p> <p>*Control Type</p> <p>Deadband (+/-)</p>	<p>*Solenoid Config</p> <p>*Signal Loss</p> <p>Ramping</p>	<p>PID 2 - Valve Regulation</p> <p>Control Type</p> <p>Deadband (+/-)</p>	<p>PID Selection Mode</p> <p>Signal Loss</p> <p>Ramping</p>
DP Metering (133 Valve)			
<p><i>DP Metering</i></p> <p>Size</p>	<p>Pressure Measurement</p> <p>Body Style</p>	<p>P1+P2 DPT</p> <p>Seat</p>	<p>Output</p> <p>Output Scaling</p>
Totalizer			
<p><i>Totalizer</i></p>	<p>Reset</p>	<p>Units</p>	<p>Ouput</p> <p>Output Scaling</p>
Analog Inputs (4-20mA) 6 Available			
<p><i>*Analog Input #1 (Typically reserved for control setpoint signal)</i></p> <p>Name</p>	<p>Units</p>	<p>Scaling</p> <p>4mA = 20mA =</p>	<p>Signal Powered by Controller</p> <p>Decimal</p>
<p><i>*Analog Input #2 (Typically reserved for control feedback signal)</i></p> <p>Name</p>	<p>Units</p>	<p>Scaling</p> <p>4mA = 20mA =</p>	<p>Signal Powered by Controller</p> <p>Decimal</p>
<p><i>Analog Input #3</i></p> <p>Name</p>	<p>Units</p>	<p>Scaling</p> <p>4mA = 20mA =</p>	<p>Signal Powered by Controller</p> <p>Decimal</p>
<p><i>Analog Input #4</i></p> <p>Name</p>	<p>Units</p>	<p>Scaling</p> <p>4mA = 20mA =</p>	<p>Signal Powered by Controller</p> <p>Decimal</p>
<p><i>Analog Input #5</i></p> <p>Name</p>	<p>Units</p>	<p>Scaling</p> <p>4mA = 20mA =</p>	<p>Signal Powered by Controller</p> <p>Decimal</p>
<p><i>Analog Input #6</i></p> <p>Name</p>	<p>Units</p>	<p>Scaling</p> <p>4mA = 20mA =</p>	<p>Signal Powered by Controller</p> <p>Decimal</p>
Digital Inputs 6 Available			
<p><i>Digital Input 1</i> Name</p> <p>Purpose</p>	<p><i>Digital Input 2</i> Name</p> <p>Purpose</p>	<p><i>Digital Input 3</i> Name</p> <p>Purpose</p>	
<p><i>Digital Input 4</i> Name</p> <p>Purpose</p>	<p><i>Digital Input 5</i> Name</p> <p>Purpose</p>	<p><i>Digital Input 6</i> Name</p> <p>Purpose</p>	

Analog Outputs (4-20mA) *Note: Analog Outputs are sourced with controller power.*

<i>Analog Output #1</i>		Scaling	
Name	Units	4mA =	20mA =
<i>Analog Output #2</i>		Scaling	
Name	Units	4mA =	20mA =
<i>Analog Output #3</i>		Scaling	
Name	Units	4mA =	20mA =
<i>Analog Output #4</i>		Scaling	
Name	Units	4mA =	20mA =

Solenoid Outputs

*Solenoid Output #1 (SO1)	Solenoid Output #2 (SO2)	Note: SO1 and SO2 are a powered solid state output typically reserved for solenoids used on a 131 or 133 series valve. The output can be configured as PWM (default) or Discrete ON/OFF. If configured as discrete, a value of 0 represents an open circuit, and 1 a closed circuit.
Name	Name	
<i>Default: Closing Solenoid</i>	<i>Default: Opening Solenoid</i>	

Relay Output

Relay Output #1 (RO1)	Relay Output #2 (RO2)	Note: RO1 and RO2 are configured as dry contact mechanical relays typically used for alarms. These outputs are configured as Discrete ON/OFF, a value of 0 represents an open circuit, and 1 a closed circuit.
Name	Name	

Actions/Alarms

<i>Action #1</i>	
Name	Describe
<i>Additional Comments</i>	
<i>Action #2</i>	
Name	Describe
<i>Additional Comments</i>	
<i>Action #3</i>	
Name	Describe
<i>Additional Comments</i>	
<i>Action #4</i>	
Name	Describe
<i>Additional Comments</i>	

Communication

GSM/GPRS	Modbus TCP/IP	Modbus RTU (RS485/RS232)	Note: See ModBus specification page for register mapping and implementation. Refer to manual for more details.
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***Control Logic** (Please specify all control logic using sketches, diagrams, etc. Attach additional sheets if necessary)

* This is only to give an idea of where wires will be landed. Does not account for number of wires and Loop or Field powered. Please refer to **Electrical Wiring** section of VC-22D IOM for help wiring loop or field powered devices.

