

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

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

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

**Solenoid Outputs**

<i>*Solenoid Output #1 (SO1)</i>	<i>Solenoid Output #2 (SO2)</i>	<b>Note:</b> 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.
<b>Name</b>	<b>Name</b>	
<i>Default: Closing Solenoid</i>	<i>Default: Opening Solenoid</i>	

**Relay Output**

<i>Relay Output #1 (RO1)</i>	<i>Relay Output #2 (RO2)</i>	<b>Note:</b> 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.
<b>Name</b>	<b>Name</b>	

**Actions/Alarms**

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

**Communication**

<b>GSM/GPRS</b>	<b>Modbus TCP/IP</b>	<b>Modbus RTU (RS485/RS232)</b>	<b>Note:</b> 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.

