

# \* Application Note AN-168 \*

## WIRE CONNECTIONS FOR VLP-24 OR LP-24 TO Pot-24 Control or customer PLC



- |                     |                     |
|---------------------|---------------------|
| 7) Enable input     | 4) 0-10 V dc output |
| 6) + 24 V dc supply | 3) Enable output    |
| 5) 0 V dc common    | 2) +24 V dc Power   |
|                     | 1) 0 V dc common    |

1. +24 Vdc always available to Pot-24
2. Enable input by customer- supplied switch to start flow
3. Initial set-up
  1. turn output limit to 20%
  2. turn front panel knob to 100%
  - 3 use output limit to set maximum desired amps



- 4) Orange 0-10 Vdc input
- 6) Blue 24 Vdc Enable
- 2) Red 24 Vdc Supply
- 5) Black 0 Vdc Common

1. WHITE
2. RED
3. GREEN
4. ORANGE
5. BLACK
6. BLUE



### Instructions for connections from customer PLC:

1. + 24 Vdc power always available to VLP-24 or LP-24(2 Amps)
2. Enable signal (24 V dc) used to turn valve on and start flow
3. 0-10 V dc set point to set flow rate.

NOTE: the actual flow of the MagnaValve is NOT linear with the 0-10 Vdc input signal. You will have to experiment with signals to achieve desired media flow rate.

You should use PID servo loop software if you want a linear relationship of 0-10 Vdc to actual motor amps or media flow.

See also the FC-24 Control which performs the servo loop function



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- 6) Blue 24 Vdc Enable
- 2) Red 24 Vdc Supply
- 5) Black 0 Vdc Common

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