

# MODEL VLP-24 MagnaValve

999314

- 0-10Vdc Control Signal
- 200-1000 lbs/min range
- Normally closed
- Variable flow rates
- Wheel systems
- No moving parts
- Steel shot\*
- Steel grit
- Cut wire media\*
- Wear resistant



The Model VLP-24 MagnaValve is a normally closed valve used to regulate steel shot or grit in wheel blast systems. The valve is constructed with a permanent magnet to hold media until power is applied. An electromagnet cancels the permanent magnet and allows the media to flow at a controlled rate. A desired flow rate may be achieved by regulating the voltage to the electromagnet.

The VLP-24 MagnaValve can be used in manual or automatic mode. In manual (or open loop) mode, a model Pot-24 is used to adjust the flow rate. For automatic (or closed loop) operation, an AC-24 Shot Flow Controller will detect the load placed on the Wheel motor and regulate the flow of media. This closed loop system will provide accurate and repeatable flow rates over a 200 -1000 pounds/minute flow range.

The valve must be operating with an AC-24 Control for amperage closed loop feedback. Open loop control (Pot-24) will not provide linear regulation.

\*Flow rate varies by media type. Not for use with Stainless Steel Media.

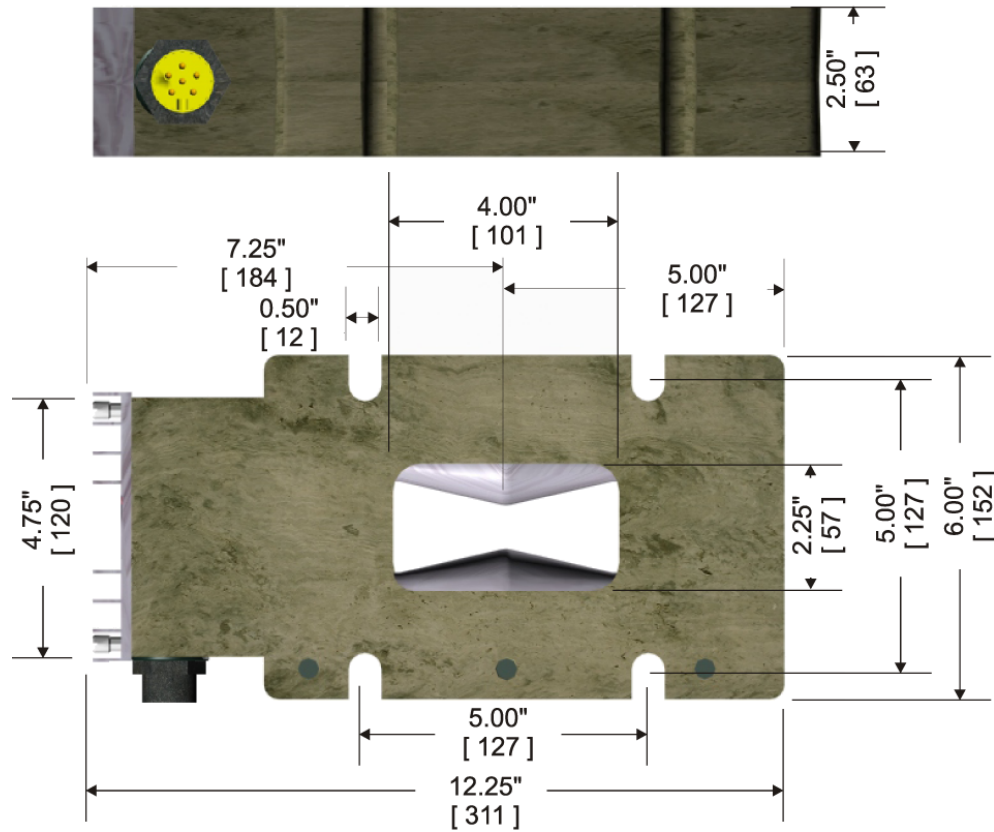
\*\*If valve driver is mounted in remote location.

## SPECIFICATIONS

Status LEDs:	24Vdc Power Enable Command 24Vdc Flow Input Signal >.25Vdc Shot Flow
Input:	24Vdc @ 2A (50VA) ± 2Vdc Enable input (24Vdc) Flow signal (0-10Vdc)
Flow Range:	*200 - 1000 lbs/min approx
Temp. Range:	23-167° F (0-75° C) **32-212° F (0-100° C)

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Note: Do not restrict the media flow above the MagnaValve as this will reduce the protective “shot blanket” on the pole pieces. Without the protective shot blanket erosion will occur, reducing the product life span. The valve should also be mounted in a horizontal plane within 5°.

4) 0-10Vdc	→	4) Orange 0-10Vdc Input	←	8) Servo Out
3) Enable	→	6) Blue 24Vdc Enable	←	9) Valve Enable
2) 24Vdc Supply	→	2) Red 24Vdc Supply	←	19) 24Vdc Supply
1) 0Vdc Common	→	5) Black 0Vdc Common	←	20) 0Vdc Common



**Pot-24**  
Manual Control  
(purchase separately)



**AC-24**  
Automatic Amps Control  
(purchase separately)

Note: for best results connect 24 Vdc power supply first to the MagnaValve and then to the controller. This reduces the voltage drop caused by the valve current. See application note AN-168 and AN-169 for more information on wiring connections. All additional wiring should be in private conduit shielded from motor wires.