VLP-24 MagnaValve

Steel Shot Media Valve for Wheel Blast Machines



Features

- Flow rate range of 200 - 1000 lb/min (91 - 453 kg/min)*
- Media flow control for wheels up to 25 Hp (19 kw)
- Regulates flow of steel media and grit
- Normally closed
- No moving parts for low-maintenance operation
- Easy retrofit installation
- 24 Vdc power
- CE compliant

* Flow rate depends on media type

Description

The VLP-24 MagnaValve® is a normally closed magnetic valve that regulates the flow of steel shot and grit in wheel blast machines. The VLP-24 is a low-maintenance valve — it has no moving parts so there are no parts to wear or break and it is completely sealed to prevent media dust from entering the valve.

How It Works

The VLP-24 has rare earth permanent magnets for normally closed operation and an electromagnet for controlling shot flow rates. With power applied, the magnetic field is neutralized and shot is allowed to flow through the valve. When no power is applied to the MagnaValve, the permanent magnets stop all flow. If the power is interrupted for any reason, the permanent magnets securely hold the shot, thereby virtually eliminating shot leakage.

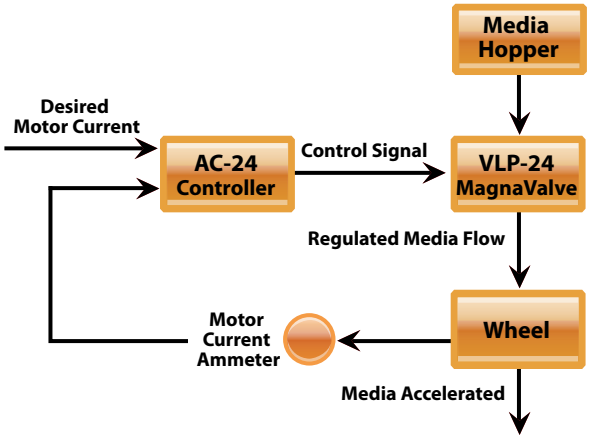


AC-24 Controller

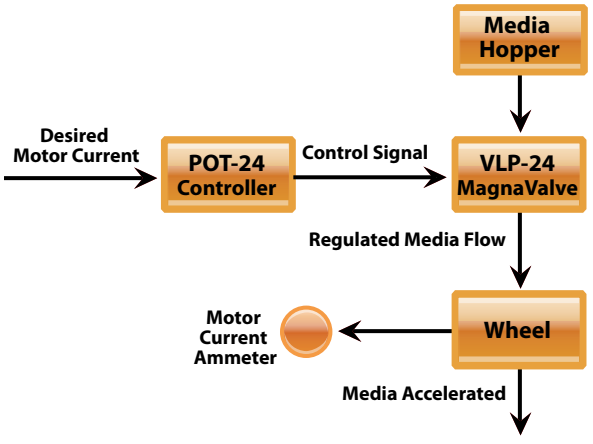
Closed- or Open-Loop Operation

For an "automatic" closed-loop operation, an Electronics Inc. (EI) AC-24 Controller (sold separately) will detect the current load on the wheel motor and regulate the flow of media to the VLP-24. This closed-loop system will provide accurate and repeatable flow rates over a 200 - 1000 lb/min (91 - 453 kg/min) range. The EI POT-24 Controller (sold separately) provides "manual" open-loop control. (AC-24 and POT-24 data sheets are available for download at www.electronics-inc.com.)

The valve is factory tested and results are supplied upon request. An installation manual simplifies installation of the VLP-24 MagnaValve and the products are supported by the EI application engineering staff.



Closed Loop System *with VLP-24 MagnaValve and AC-24 Controller*



Open Loop System *with VLP-24 MagnaValve and POT-24 Controller*

Electronics Inc.
Shot Peening Control

Electronics Inc.
56790 Magnetic Drive
Mishawaka, Indiana 46545 USA
(574)256-5001
www.electronics-inc.com

Specification is subject to change without notice
Rev 9/14

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VLP-24 MagnaValve

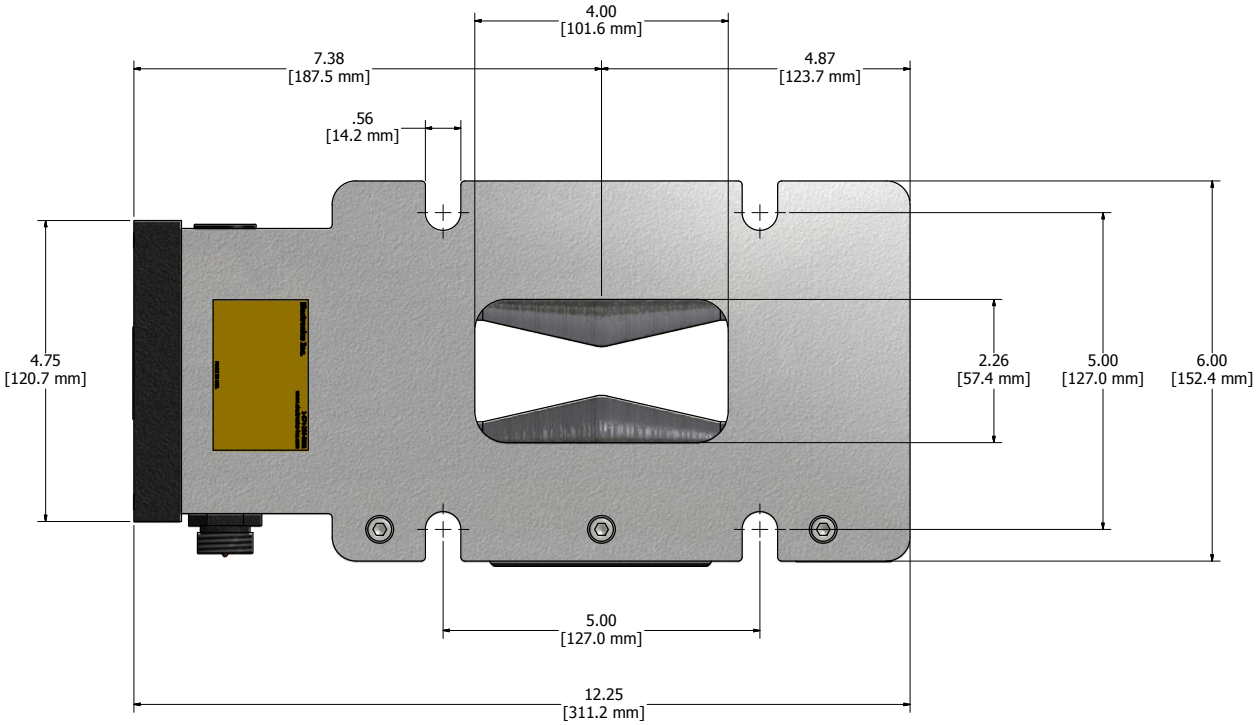
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Specifications

Power	+24 Vdc @ 2A (50 VA) ±24 Vdc
Media	Steel Shot and Grit
Mode	Normally Closed
Flow Output	200 - 1000 lb/min (91- 453 kg/min)
Temperature Range	32˚ - 167˚ F (0˚- 75˚ C)
Weight	15 lbs
Servo Command Input	0 - 10 Vdc

Dimensions

Inches [Metric]





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