

VLP1000 MagnaValve®

Magnetic Valve for Wheel Machine Applications

Features

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

* Flow rates based on S230 shot

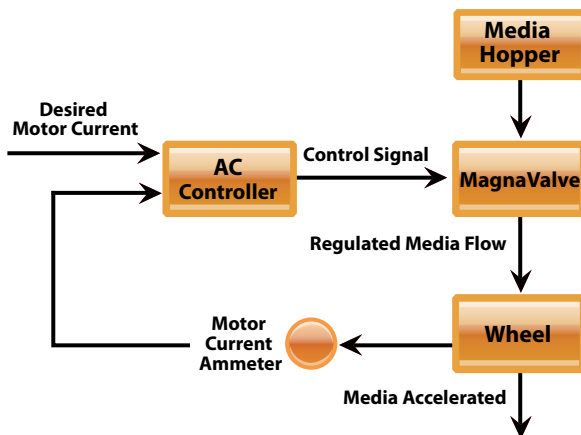
Description

The VLP1000 MagnaValve is a normally closed magnetic valve that regulates the flow of steel shot and grit in wheel blast machines. The VLP1000 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.

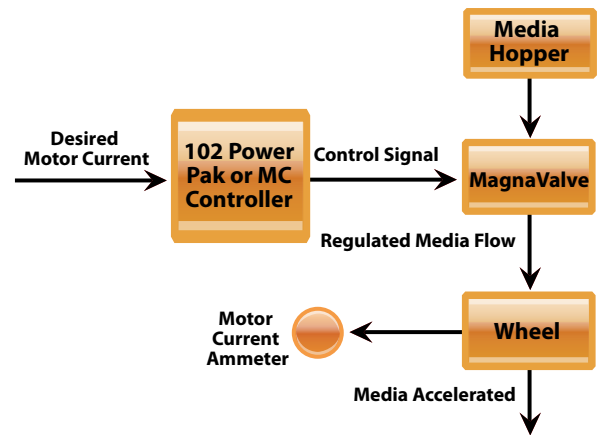
The VLP1000 has rare earth permanent magnets for normally closed operation and an electromagnet for controlling shot flow rates. With power applied, the magnetic field is neutralized and shot is allowed to flow through the valve. When no power is applied to the MagnaValve, the permanent magnets stop all flow. If the power is interrupted for any reason, the permanent magnets securely hold the shot, thereby virtually eliminating shot leakage.

The VLP1000 MagnaValve can be used in “automatic” or “manual” mode. For an automatic closed-loop operation, an Electronics Inc. AC Controller will detect the current load on the wheel motor and regulate the flow of media to the VLP1000. This closed-loop system will provide accurate and repeatable flow rates over a 200 - 1000 lb/min (91 - 453 kg/min) range. A 102 Power Pack or MC Controller provides “manual” open-loop control. (AC and MC Controller data sheets are available for download at www.electronics-inc.com.)

The MagnaValve is factory tested and results are supplied upon request. An instruction manual simplifies installation and the product is supported by the Electronics Inc. application engineering staff.



Closed Loop System with VLP1000 MagnaValve and AC Controller



Open Loop System with VLP1000 MagnaValve and 102 Power Pack or MC Controller



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Specification is subject to change without notice
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Specifications

Power	+55 Vdc @ .844A PWM
Media	Steel Shot and Grit
Flow Output	200 - 1000 lb/min (91 - 453 kg/min)*
Temperature Range	32°C - 167°F (0°C - 75°C)
Weight	16 lb / 7 kg

* Flow rates based on S230 shot

Dimensions

Inches [Metric]

