

WM 3000-24 MagnaValve®

Steel Shot Media Valve for Wheel Blast Machines

Features

- Flow rate up to 3,000 lb/min (1,361 kg/min) for steel media*
- Variable flow rates
- Steel media flow control for wheels up to 125 Hp
- Provides motor amperage control when used with the Electronics Inc. AC-24 Controller (sold separately)
- Normally closed
- No moving parts
- 24 Vdc
- CE compliant

* Flow rate based on S230 cast steel shot

Description

The WM 3000-24 MagnaValve™ is a normally closed magnetic valve that regulates the flow of steel shot and grit in wheel blast machines for blast cleaning applications. It is a powerful valve with a flow rate capacity of up to 3,000 lb/min (1,361 kg/min) for wheels up to 125 hp. The MagnaValve's valve driver comes with a 6-ft cable for remote installation in the customer's electrical panel, making it an ideal valve for blast machines in high temperature environments.

The MagnaValve works with its companion controller, the AC-24 Controller, and customer-supplied motor current transformer (0 -5 Amps signal) to regulate wheel motor amperage to any value from no-load to full-motor load (the Remote Valve Driver comes with a 6 ft. 6-pin plug/cable for easy connection to a AC-24 Controller). This closed-loop system provides accurate and repeatable flow rates of up to 3,000 lb/min (1,361 kg/min). The EI POT-24 Controller provides "manual" open loop control. Data sheets available for download at www.electronics-inc.com: [AC-24 Controller](#), [Pot-24 Controller](#).

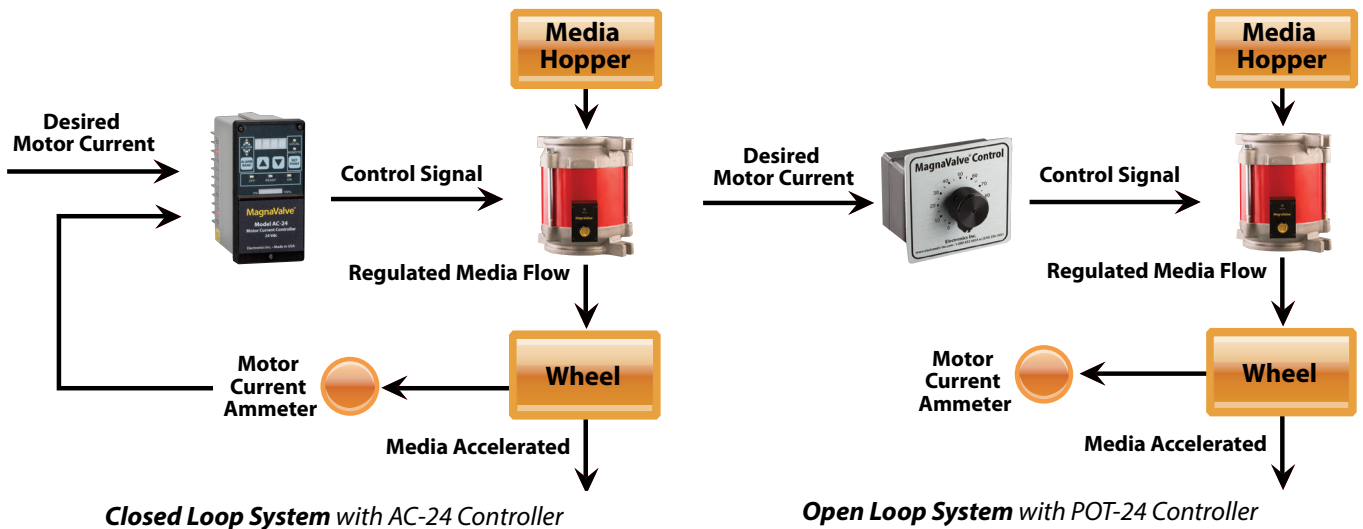
US Patent 5,362,027



The WM 3000-24 comes with plug-in connection and a Remote Valve Driver. The valve driver is installed in the electrical control panel, making it an ideal valve for work environments with extreme high temperatures.



AC-24 Controller (sold separately)



WM 3000-24 Instruction Manual is available for download at www.electronics-inc.com

EI Electronics Inc.
Shot Peening Control

Electronics Inc.
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Specification is subject to change without notice
2021-02

MagnaValve is a registered trademark of Electronics Inc.

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MagnaValve Specifications

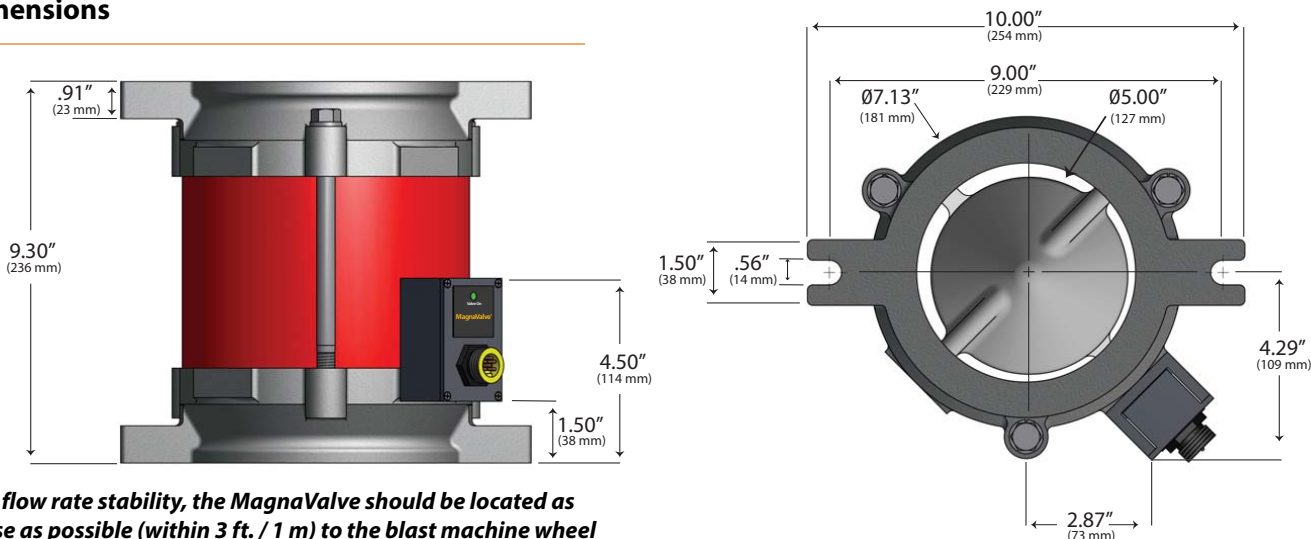
Power	+24 Vdc @ 2 A (50 VA)
Media	Steel Shot and Grit
Weight	32 lb (14.5 kg)
Mode	Normally Closed
Temperature Range	Valve: 50° - 230° F (10° - 110° C) Valve Driver: 50° - 120° F (10° - 49° C)
Signal Input	0 - 10 Vdc ¹
Flow Rate	0 - 3,000 lb/min (0 - 1,361 kg/min) ¹

¹ Transfer function (input signal to output flow) is non-linear. AC-24 Controller must be used for proper closed loop servo capability based on wheel amps.

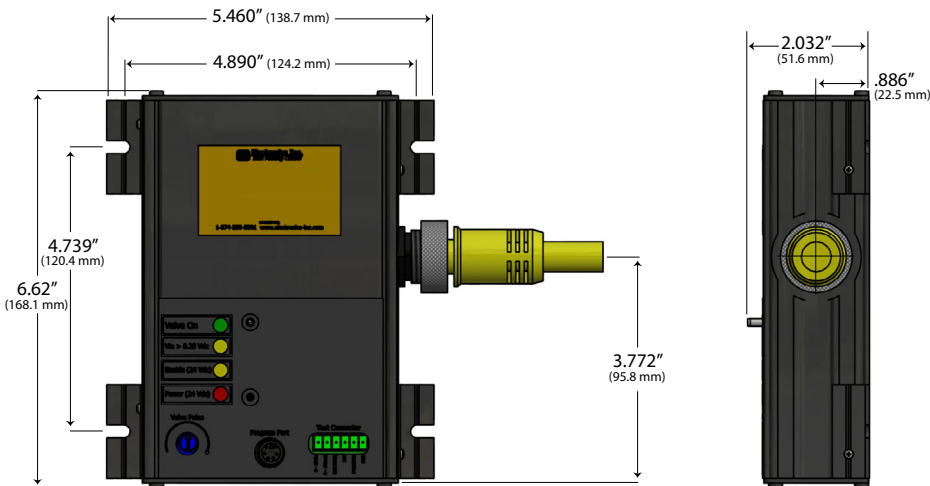
Remote Valve Driver Display LEDs

- Valve On
- 0 - 10 Vdc Command Input Available
- 24 V Flow Enable
- +24 Vdc Power

Dimensions



For flow rate stability, the MagnaValve should be located as close as possible (within 3 ft. / 1 m) to the blast machine wheel



Two 6 ft. cables with 6-pin plugs come with the WM 3000-24 and Remote Valve Driver. One cable connects the WM 3000-24 and Remote Valve Driver; the other cable connects the Remote Valve Driver and an AC-24 Controller.

Panel spacing for the Remote Valve Driver: 5" on cable side, 0.5" on top and bottom
The Remote Valve Driver must be installed in electrical panel



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