

# 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)
- Remote VD-17 Valve Driver (included) has DIN rail or panel mount
- Normally closed
- No moving parts
- 24 Vdc
- CE compliant

\* Flow rate based on S390 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 VD-17 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](http://www.electronics-inc.com): [AC-24 Controller](#), [Pot-24 Controller](#).  
US Patent 5,362,027



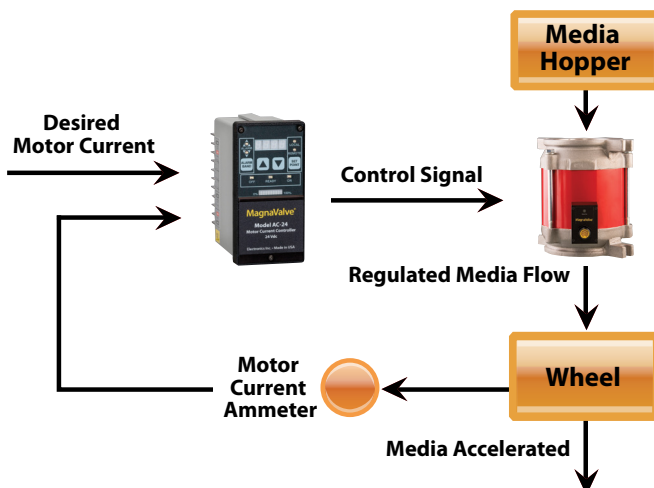
The Remote VD-17 Valve Driver

*The WM 3000-24 is for blast cleaning machines in foundries and other high flow-rate applications*

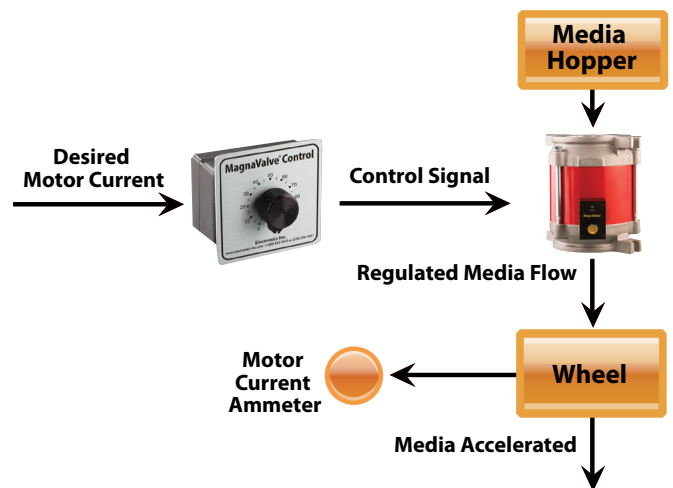
*The WM 3000-24 comes with plug-in connection and a Remote VD-17 Valve Driver. The valve driver is installed in the electrical control panel, making it an ideal valve for work environments with extreme high temperatures.*



AC-24 Controller  
(sold separately)



**Closed Loop System with AC-24 Controller**



**Open Loop System with POT-24 Controller**

WM 3000-24 Instruction Manual is available for download at [www.electronics-inc.com](http://www.electronics-inc.com)



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*Shot Peening Control*

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Specification is subject to change without notice  
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# WM 3000-24 MagnaValve®

## Steel Shot Media Valve for Wheel Blast Machines

### MagnaValve Specifications

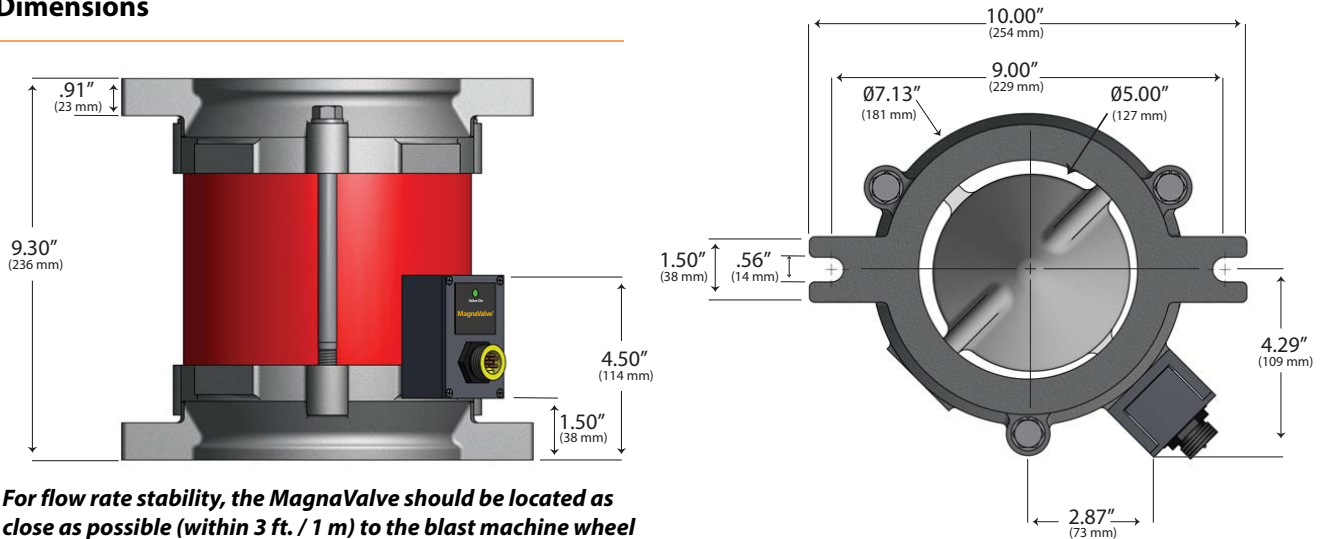
Power	+24 Vdc $\pm$ 2 Vdc @ 2A
Signal Inputs	0 - 10 Vdc Flow Signal <sup>1</sup>
	24 V Flow Enable
Media	Steel Shot and Grit
Flow Rate	0 - 3,000 lb/min (0 - 1,361 kg/min) <sup>2</sup>

Weight	32 lb (14.5 kg)
Mode	Normally Closed
Temperature Range	Valve: 50° - 230° F (10° - 110° C)
	Valve Driver: 50° - 149° F (10° - 65° C)

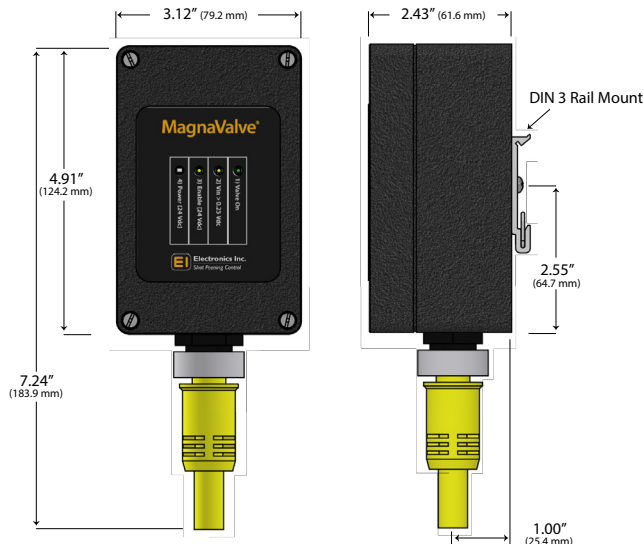
<sup>1</sup> Transfer function (input signal to output flow) is non-linear. AC-24 Controller must be used for proper closed loop servo capability based on wheel amps.

<sup>2</sup> Flow rate based on S390 cast steel shot

### 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 VD-17 Valve Driver. One cable connects to the WM 3000-24 valve and one cable connects to the Remote VD-17 valve driver.

**Panel spacing for the Remote Valve Driver: 5" on cable side, 0.5" on top and side**  
**The Remote VD-17 Valve Driver must be installed in electrical panel**