

# 910-24 MagnaValve®

## Non-Ferrous Media Valve for Air Blast Machines

### Features

- 24 Vdc supply
- $\pm 10\%$  of setpoint in the range of 20% - 100%
- Ethernet with embedded webpage
- Normally closed
- SteadyFlow non-pulsing media flow
- Only one moving part for low-maintenance operation
- Built-in servo with desired jump-to flow rate
- Meets specification AMS SAE 2432E
- LCD
- CE compliant
- 0 - 10 Vdc, 4 - 20 mA, I/O
- Includes a six ft (1.83 m) plug and cable

### Description

The 910-24 MagnaValve® is a normally closed valve that regulates the flow of non-ferrous materials—ceramic bead or aluminum oxide—in suction-type or pressure-type air blast machines. The 910-24 MagnaValve has only one moving part—a magnetic shuttle that provides precise media flow regulation—making it a low-maintenance valve.

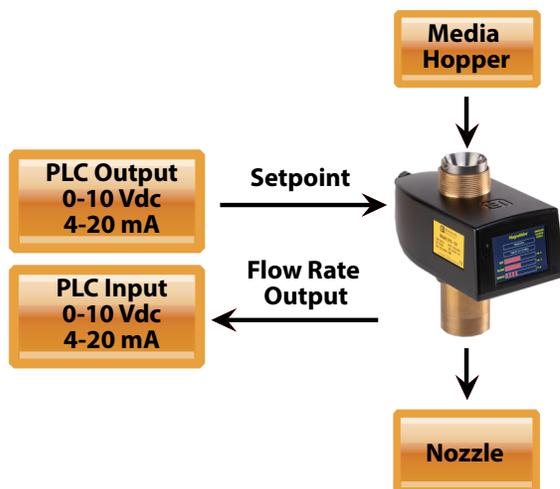
A 910-24 MagnaValve is a Smart Valve with SteadyFlow Technology. It has an embedded webpage, a built-in sensor that measures flow rate, a built-in servo, and a flow rate jump-to feature that provides accurate and repeatable flow rates. The flow jump-to feature starts media flow at the desired flow rate instead of ramping up to the desired rate. The MagnaValve can be factory calibrated for various media types and sizes. It will be calibrated for the media type, size, and flow rate specified on the purchase order.

### How It Works

The 910-24 MagnaValve controls media flow through the application of power to an electromagnet. Current is applied to the electromagnet surrounding the magnetic shuttle. This raises the shuttle, allowing the media to pass over the cone and drop through the capacitive sensor. The sensor measures the amount of media and generates an analog output signal. When no power is applied, or if power is interrupted for any reason, the shuttle drops onto the cone and securely blocks the flow of media.

The MagnaValve provides reliable, repetitive, and consistent media flow rates for shot peening and blast cleaning applications. The MagnaValve makes it easy to document flow rates and establish or repeat a good set-up. The valve meets the requirements of SAE AMS 2432E and other aerospace and commercial specifications.

Clear and comprehensive instruction manuals simplify installation for the 910-24 MagnaValve. In addition, the products are supported by the Electronics Inc. application engineering staff.



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Specification is subject to change without notice  
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### Specifications

<b>Power</b>	24 Vdc ± 2% @ 2A	<b>Servo Command Input</b>	0-10 Vdc / 4-20 mA
<b>Media</b>	Ceramic and Aluminum Oxide*	<b>Flow Enable Input</b>	+24 Vdc ±2 Vdc into 20 kΩ
<b>Maximum Pressure</b>	100 PSI	<b>Weight</b>	9.9 lb (4.5 kg)
<b>Mode</b>	Normally Closed	<b>Flow Ports</b>	Top (entry) and Bottom (exit) are 2" NPT Male Threads
<b>Temperature Range</b>	40°F - 110°F (5°C - 43°C)	<b>Flow Sensor Output</b>	0 - 10 Vdc, max output 11.5 Vdc 4 - 20 mA, max output 15 Vdc
<b>Air Hold Off</b>	<5 PSI	<b>Ethernet</b>	10/100 Mbps
<b>Air Pressure Differential</b>	<3 PSI		

\* Meets AMS SAE 2432E for Ceramic Bead within the ranges shown in Media Flow Rates table below. Aluminum oxide may not meet AMS SAE 2432E.

### Media Flow Rates

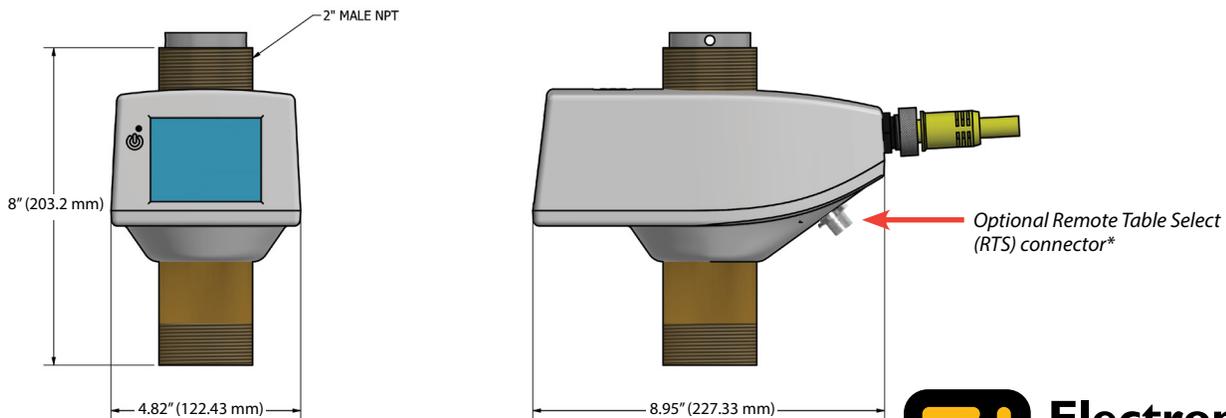
	Ceramic Bead			
Media Size	150	300	425	600
Maximum Flow	4-20 lb 2-10 kg	4-20 lb 2-10 kg	3-15 lb 1.4-7 kg	3-15 lb 1.4-7 kg

#### For proper operation of the MagnaValve® 910-24, please note:

- Media must be free from ferrous contamination and fines (broken media and dust). The media must be free flowing. Install a magnetic separator and a screen separator in the reclaim system to ensure necessary media quality.
- All machines must be able to accommodate the air hold off and pressure differential requirements of the MagnaValve. The air hold off should not exceed 5 psi, and the pressure differential must remain below 3 PSI.

*This accommodation can typically be achieved using a pinch valve below the MagnaValve with a proper start and stop sequence. For more information, refer to the specifications and the instruction manual.*

### Dimensions



\*Multiple look-up tables are available with the Remote Table Select option. Consult factory for details.



## Electronics Inc.

### Shot Peening Control

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