

# MODEL 590-24 MagnaValve

999293



- High Accuracy -  $\pm 5\%$  of FS
- Built-in flow sensor
- 30 - 300 lbs/min range
- Normally closed
- Requires FC - 24 Flow Controller
- Air type shot peening machines
- Variable flow rates
- No moving parts
- Steel shot or Steel grit
- Includes 6' Cable

The Model 590-24 MagnaValve is a normally closed magnetic valve suitable for the regulation of steel shot. The Model 590-24 includes a built-in sensor for accurate measurement of flow rate. Used with the Model FC-24 Shot Flow Controller, the 590-24 MagnaValve will provide accurate and repeatable flow rates over a 30 to 300 pounds-per-minute flow range. The 590-24 MagnaValve is factory calibrated for various shot types and sizes for higher accuracy. Please be sure to specify the type and size of shot you plan to use.

The valve construction includes a permanent magnet for normally closed operation and an electromagnet for controlling shot flow rates. By regulating the voltage to the electromagnet, any desired flow rate may be achieved. When power is off, the valve will hold shot due to the permanent magnet.

The Model 590-24 Magnavalve incorporates a preamplifier circuit to allow for high noise immunity and a 0-10 Vdc output. The valve is factory calibrated and results are included upon request.

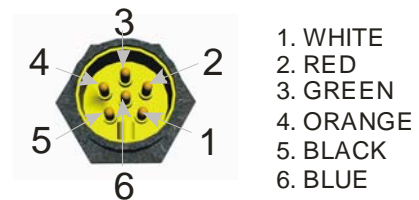
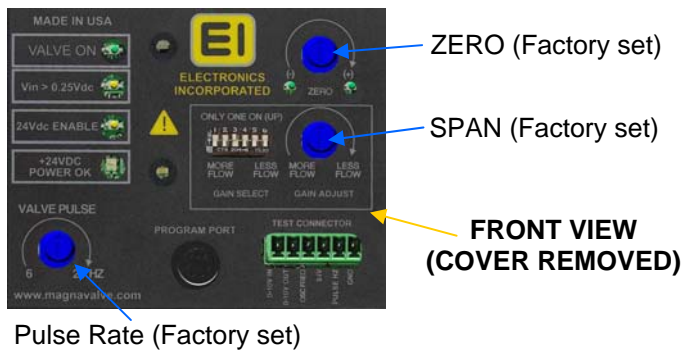
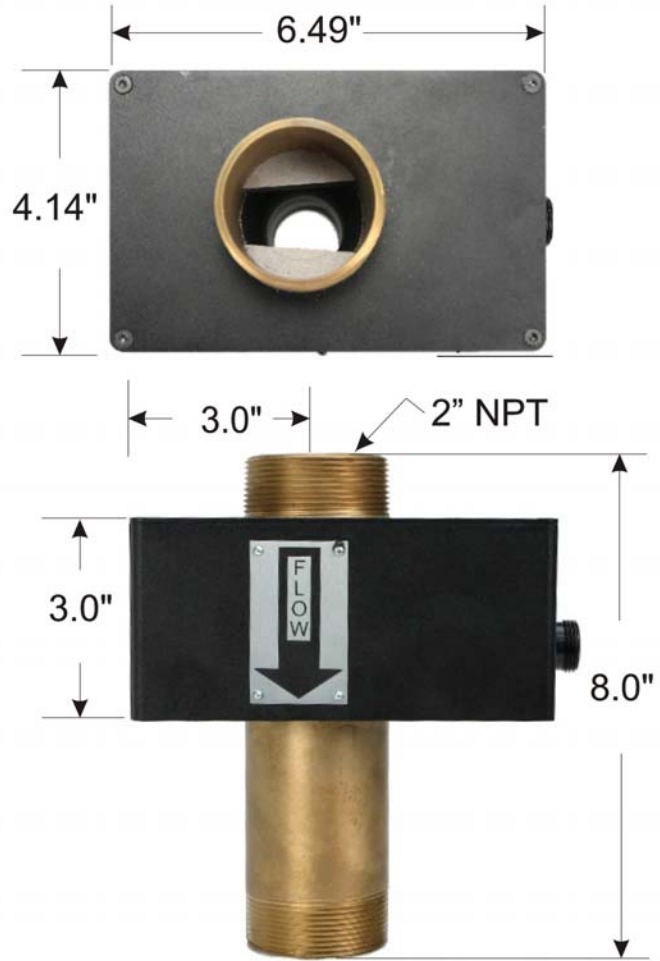
Note: consult factory for pre-calibration using media other than cast steel shot.

**ELECTRONICS INCORPORATED**

# MODEL 590-24 MagnaValve

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SPECIFICATIONS	
Sensor	
Display LED's:	Valve ON Command input Enable +24V Power
Output:	0 - 10Vdc
Adjustments:	Zero Span Pulse Rate
Accuracy:	+/- 5% (of full scale)
Control	
Input:	0-10Vdc Into 100K
Enable:	24Vdc @ 10mA
Valve	
Power:	+24Vdc @ 2A (50VA)
Calibration:	30 - 300 lbs/min
Media:	Steel shot
Max. Pressure:	100 PSI
Mode:	Normally closed
Temp. Range:	40-110° F 5-43° C



FC-24	590-24
6. PROCESS IN 0-10V	1. WHITE 0-10VDC OUT
5. PROCESS 0VDC	3. GREEN 0VDC
8. SERVO OUT	4. ORANGE 0-10VDC IN
9. VALVE ENABLE	6. BLUE 24VDC ENABLE
19. 24VDC SUPPLY	2. RED 24VDC SUPPLY
20. 0V COMMON	5. BLACK 0V COMMON



See FC-24 Data Sheet for more information

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