

MODEL 500-24 MagnaValve

999115



- Built-in flow sensor
- High Accuracy $\pm 1\%$ of FS*
- 120 - 1200 lbs/min range**
- Normally closed
- Works with FC - 24 Flow Controller
- Variable flow rates
- Wheel type blast cleaning or peening machines
- No moving parts
- Steel shot or Steel grit
- Includes 6' plug and cable

The Model 500-24 MagnaValve is a normally closed magnetic valve for the regulation of steel shot with a built-in sensor for the accurate measurement of flow rate. Used with the Model FC-24 Shot Flow Controller, the MagnaValve will provide accurate and repeatable flow rates over a 120 - 1200 pounds-per-minute flow range.

The valve contains a permanent magnet for normally closed operation and an electromagnet for controlling shot flow rates. By regulating the power to the electromagnet, any desired flow rate may be achieved.

The Model 500-24 MagnaValve incorporates a sensor or amplifier circuit for a 0-10Vdc output. The valve is factory calibrated and results are included upon request. Note: consult factory for pre-calibration using media other than S-230 cast steel shot.

*1% accuracy based upon factory calibration

** based on S-230 cast steel shot

ELECTRONICS INCORPORATED

MODEL 500-24 MagnaValve

SPECIFICATIONS

Input

Enable: 24Vdc
 Flow Command: 0-10Vdc
 Power: 24Vdc @ 2A (50VA)

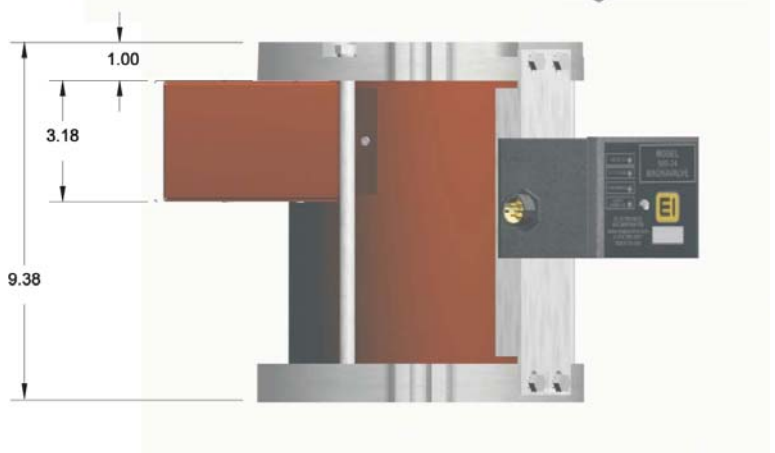
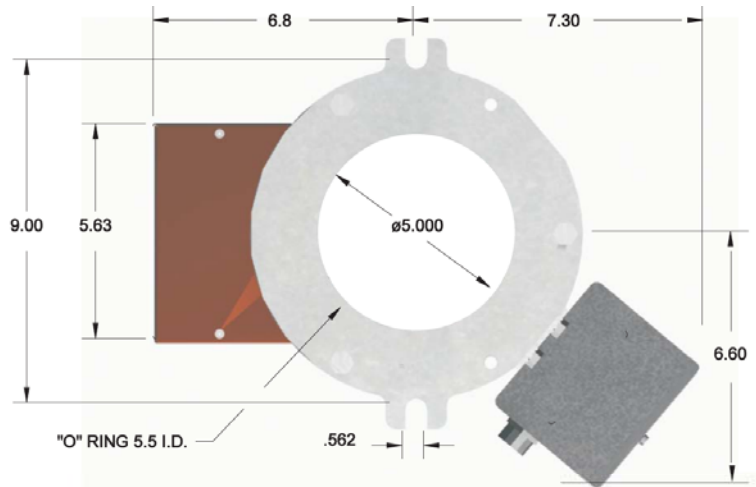
Adjustments

Zero, Span, Pulse Rate

Output

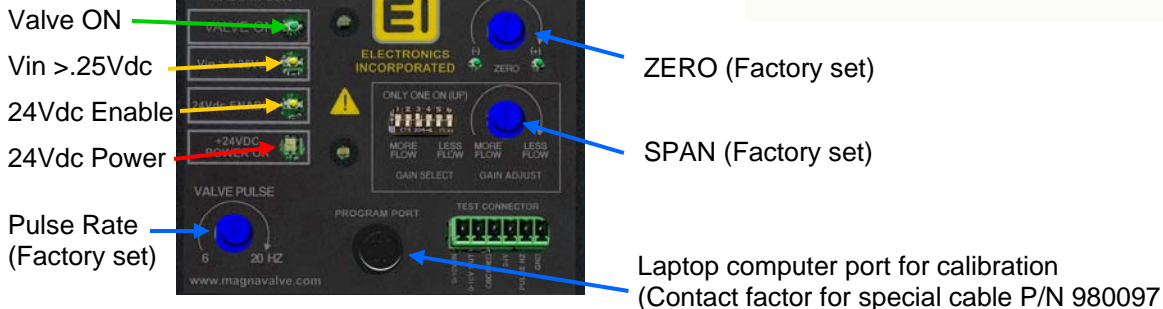
Flow Signal: 0-10Vdc
 Accuracy: ±1% (of Full Scale)*
 Flow Range: 120-1200 lb/min**
 Media: Steel or Cut wire Shot
 Mode: Normally closed
 Temp Range: 40 -110 F (5 - 43 C)

Minimum Flow Input is 3.0"



Note: The MagnaValve must be mounted within 5 degrees of vertical for proper operation.

LEDs



WIRE CONNECTIONS



FC-24	500-24
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

NOTE:

- Make connection from power supply directly to the MagnaValve to prevent high current voltage drops.
- Use 16 AWG or larger wire size for connection to the controller.
- Be sure Power supply is regulated and capable of 2Amp (50VA) output.

See FC-24 Data Sheet for more information

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