

# \* MODEL 478 MagnaValve \*



- \* Air pressure shot peening
- \* Variable flow rates
- \* No moving parts
- \* Steel shot

- \*  $\pm 2\%$  Accuracy
- \* Built-in flow sensor
- \* 0 - 20 lbs./min. range
- \* Normally closed
- \* Requires FC Flow Controller

The Model 478 MagnaValve is a normally closed magnetic valve suitable for regulation of steel shot and includes a built-in sensor for accurate measurement of flow rate. Used with the Model FC Shot Flow Controller, the MagnaValve will provide accurate and repeatable flow rates over a 2 - 20 pounds-per-minute flow range.

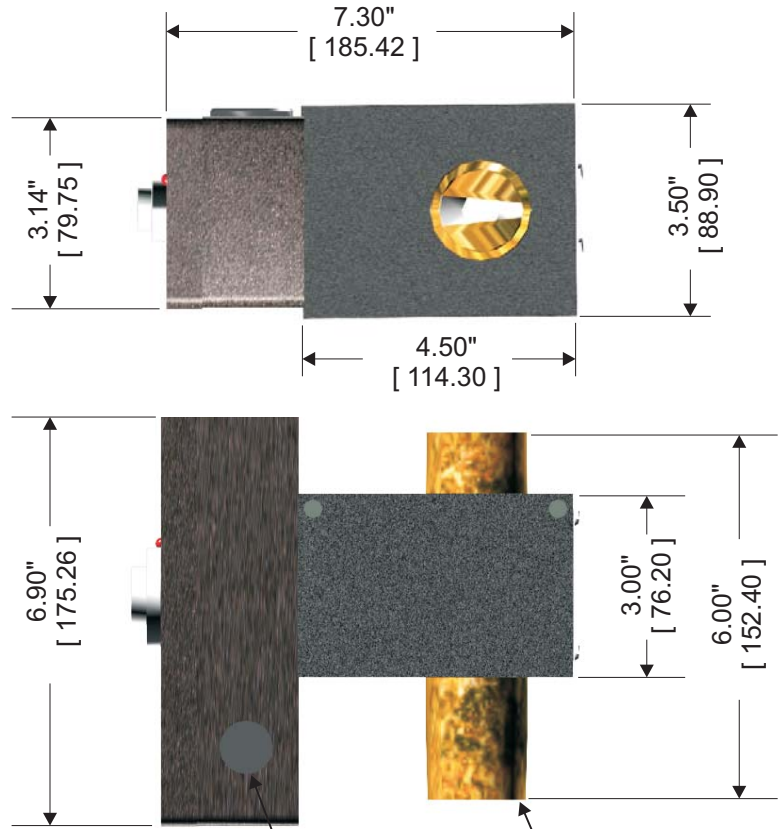
The valve construction includes a permanent magnet for normally closed operation and an electromagnet for controlling shot flow rates. By regulating the voltage to the electromagnet, any desired flow rate may be achieved. When power is off, the valve will hold shot due to the permanent magnet.

The Model 478 MagnaValve incorporates a preamplifier circuit to allow linearity compensation to achieve a high degree of accuracy, high noise immunity and a 0-5 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

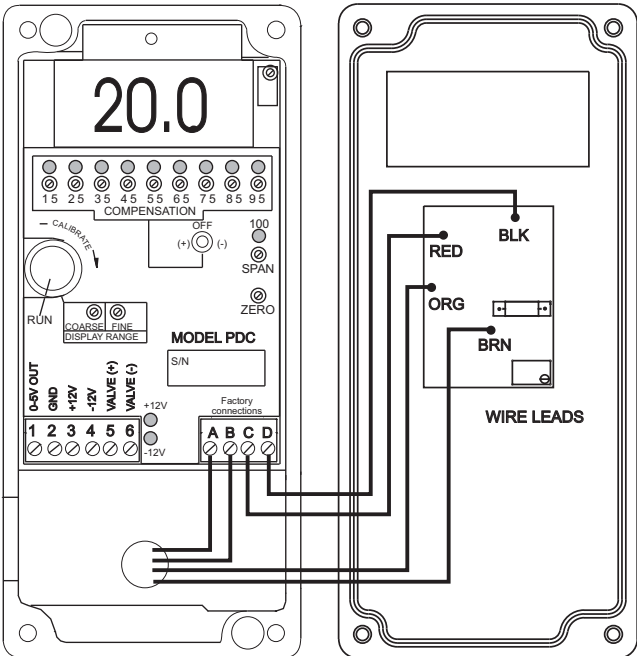
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SPECIFICATIONS	
<b>SENSOR</b>	
Power : ±12VDC @ 100mA max. (From FC Control)	
Display : Digital readout lbs./min.	
Output : 0 - 5VDC	
Adjustments : Zero, Span, Linearity	
Accuracy : ±2% (of full scale)	
<b>VALVE</b>	
Power: +50VDC @ .62A (From FC Control)	
Flow Range: 2 - 20 lbs./min.	
Maximum Pressure: 100 PSI	
Media: Steel shot	
Mode: Normally closed	
Temp. Range : 32 - 122° F 0 - 50° C	



Note: The MagnaValve is designed to operate in a vertical position and must be mounted within 5 degrees of vertical.

.875" DIA. [ 22.225 ]  
1/2" CONDUIT HOLE ON BOTH SIDES  
BRASS 1-1/4" NPT BOTH ENDS



JUNCTION BOX                      VD-8 VALVE DRIVER

CABLE  
BELDEN 9773  
OR EQUAL  
3 PAIR SHIELDED  
  
MAY SUBSTITUTE  
6 CONDUCTOR  
PLUS SHIELD 18 AWG