

* MODEL 1478 MagnaValve *



- * Air pressure shot peening
- * Variable flow rates
- * No moving parts
- * Steel shot
- * Higher pulse rate capable

- * 1% Accuracy
- * Built-in flow sensor
- * 0 - 20 lbs./min. range
- * Normally closed
- * Requires FC Flow Controller

The Model 1478 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 and with a higher pulse rate a smoother flow can be achieved.

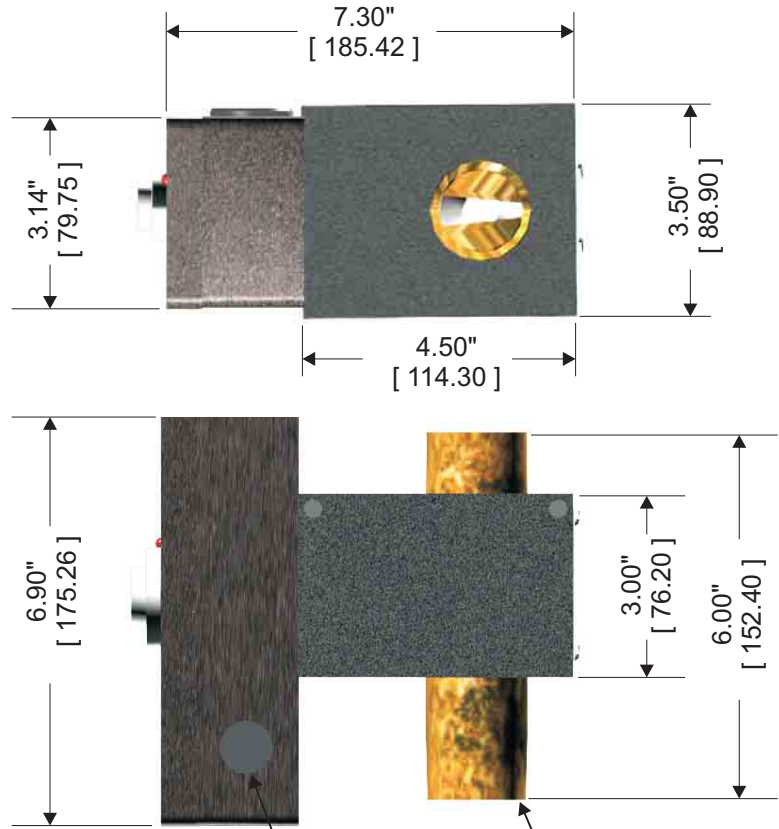
The valve construction includes a permanent magnet for normally closed operation and an electromagnet for controlling shot flow rates. By regulating the voltage to the electromagnet, any desired flow rate may be achieved. When power is off, the valve will hold shot due to the permanent magnet.

The Model 1478 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

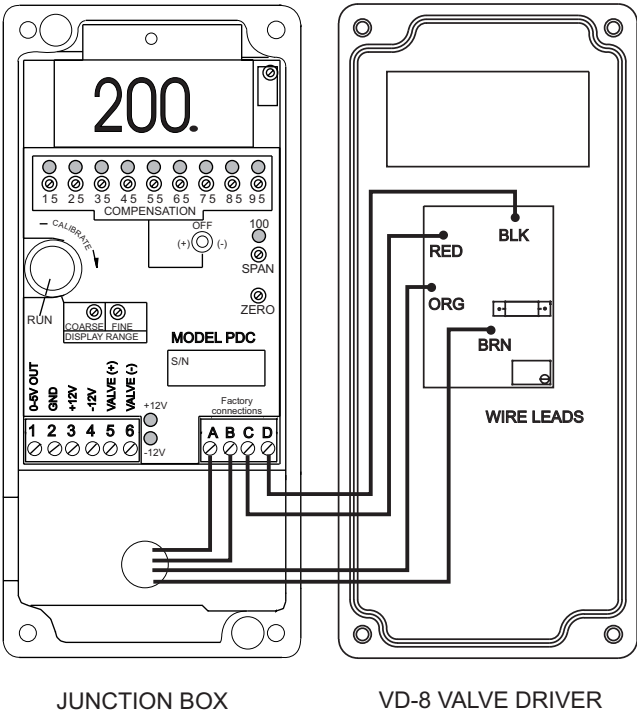
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SPECIFICATIONS	
SENSOR	
Input : +12VDC @ 100mA max. : -12VDC @ 60mA max.	
SUPPLIED BY FC CONTROLLER	
Display : Digital readout lbs./min.	
Output : 0 - 5VDC	
Adjustments : Zero, Span, Linearity	
Accuracy : +/- 1% (of full scale)	
VALVE	
Input : +50VDC @ .62A	
SUPPLIED BY FC CONTROLLER	
Output : 0 - 20 lbs./min.	
Pressure Range : 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



CABLE
BELDEN 9773
OR EQUAL
3 PAIR SHIELDED

MAY SUBSTITUTE
6 CONDUCTOR
PLUS SHIELD 18 AWG

1478CDATA.CDR 02/17/2003