MES Protection Valve Instructions

This protection valve kit is designed to keep water/sap out of your vacuum pump. This is not a humidity trap. However, this will manage the large sap surges from a morning flush. Large doses of sap entering an oil cooled vacuum pump can be a major issue. The downtime associated with repairing the pump or even changing the oil can be costly. The three components that make this unit function are the control box, the solenoid valve, and the probes. When the probes come in contact with the liquid, the valve shuts off. When the liquid drops below the probes the valve turns back on.

A Few Key Pointers:

- Make sure the solenoid valve is mounted in the vertical position above the releaser with the arrow on the valve pointed in the direction of air flow.

- When installing the probes, put them at least 6" below the vacuum inlet to the pump

- Probes can be placed side by side. It is not suggested to put them one on top of the other.

- The solenoid will become warm/hot to the touch. That is completely normal

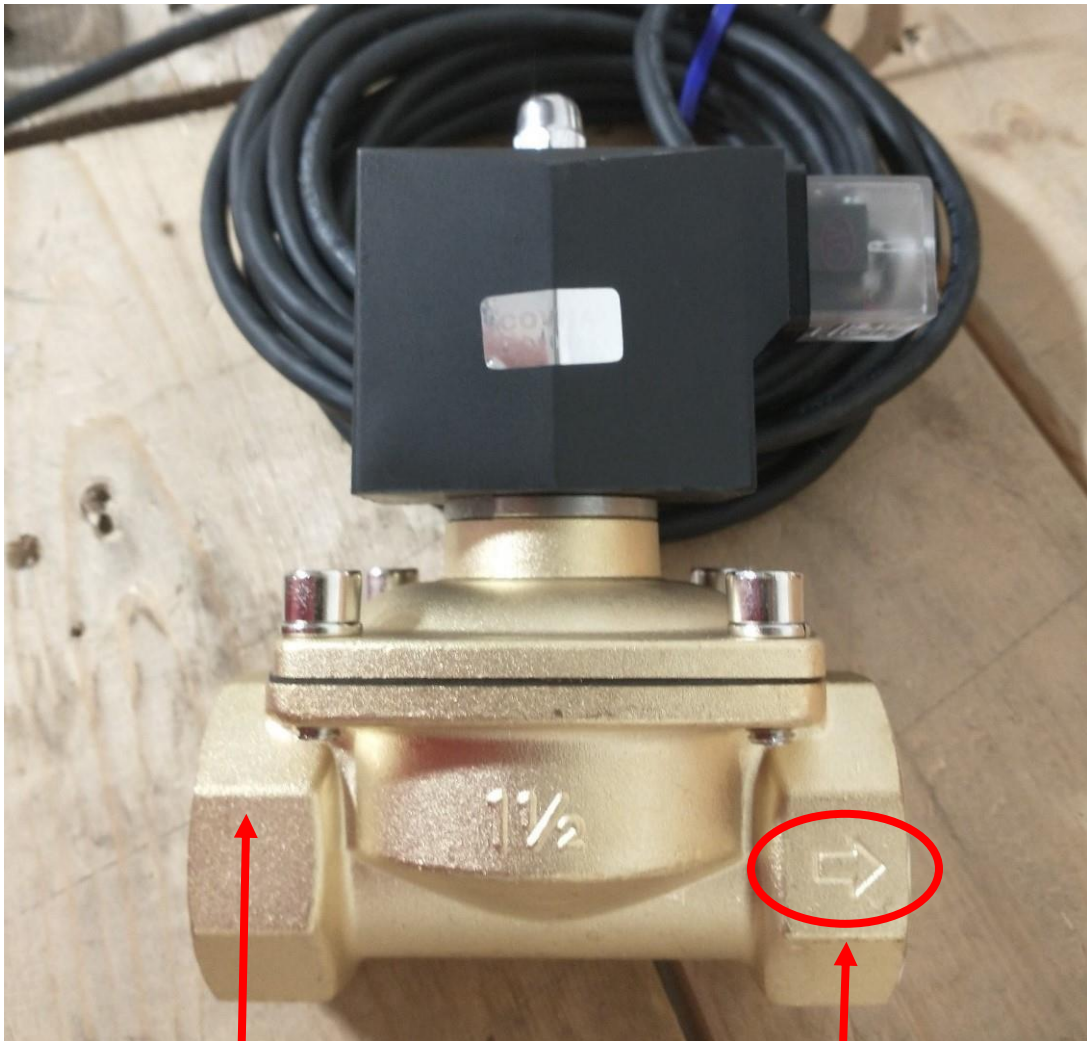- Turn the unit off at the end of sugar season.

Installing the System:

- The system is wired and tested from the factory. The only thing you will need to do is to crimp on the wires for the probes

- Drill with a 7/16" drill bit into the releaser for each probe. Then tap that hole with a 1/4" pipe tap.

- Screw the control box to the wall

- Install the solenoid valve in the vertical position with arrow pointed in direction of air flow.

- Plug power cord into 120v outlet.

Power Cord   On/Off Switch   Control Box

Solenoid Valve   Air Flow Direction

Probes   Probe Connections

If you have any questions about VFD's, programming, or pumps, do not hesitate to call or email us (info@mapleexperts.com).

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