

Operator's Instructions Gas Engine Driven Hypro D252 Diaphragm Pump System

Read the pump and engine manufacturer's owners manuals prior to using your PBM Injection Pump.

Check the filter prior to introducing chemical and/or beginning an injection session. If the filter becomes clogged when the tank is loaded, close the valve supplying chemical to the pump. This will reduce the amount of chemical loss and spillage. Remove the bottom of the filter housing by turning counterclockwise. Rinse the filter element until clean and reassemble the filter. *The pump will not operate properly if the filter bowl is loose or the o-ring is missing or damaged.* **Always use protective clothing and refer to the chemical manufacturer's recommendations when handling chemicals.**

Important Note: Always check for flammable debris, fuel spillage on or around the engine and/or exhaust prior to starting.

Starting up your Injection Pump

Check engine, gearbox and pump oil levels prior to starting the engine. Using an automotive air pressure gauge check the air pressure in the pulsation dampener. (*The orange dome on the top of the pump.*) Set the pressure at 20% of your desired operating pressure. The minimum charge pressure recommended is 10 PSI. Turn the black knob on the regulator counterclockwise until the zero is visible. Turn the red knob a quarter turn until the letter "A" is in the 12 o'clock position. The valve will now be in the "dump" position and all fluid will be diverted back to the tank. *This will reduce the load on the engine making the engine easier to start and will extend pump and engine life.* Refer to the engine manufacturer's owners manual for recommended starting and shut down procedures. Allow the engine to warm up thoroughly before the next step. Turn the red knob until the "C" is in the 12 o'clock position and adjust the black knob until the desired spray pressure is achieved. *Keep in mind the gauge pressure will be higher than the pressure at the irrigation line inlet. The amount of pressure differential depends on hose lengths and restrictions from fittings. A general rule of thumb is to set the pressure at the gauge between 5 and 10 PSI higher than your target PSI. For best results check the pressure at the irrigation line inlet. Your target PSI should be 20 PSI higher than the irrigation line pressure.*

Setting the Output Volume

The flow meter has a metering valve installed at the bottom or meter inlet. The valve has a series of increments numbered from 1 to 5. The numbers are reference points. Once your pressure has been set to overcome line pressure slowly open the valve until the desired output is achieved. The meter has both gpm, gallons per minute, and lpm, liters per minute.

PBM Injection Pumps are designed for Professional Operators. The instructions outlined above are general in nature. Unless your pump came outfitted with poly heads do NOT use with acids. If you have questions regarding the chemical(s) you are using with your injection pump contact your chemical dealer or PBM for chemical compatibility. Please have the product name, brand, active ingredients and concentration level prior to calling. PBM accepts no responsibility for crop, property or persons damaged or injured by use of this equipment.