

# GeoPump

Ground Water Pumping Solutions

## FULL TANK SHUT-OFF

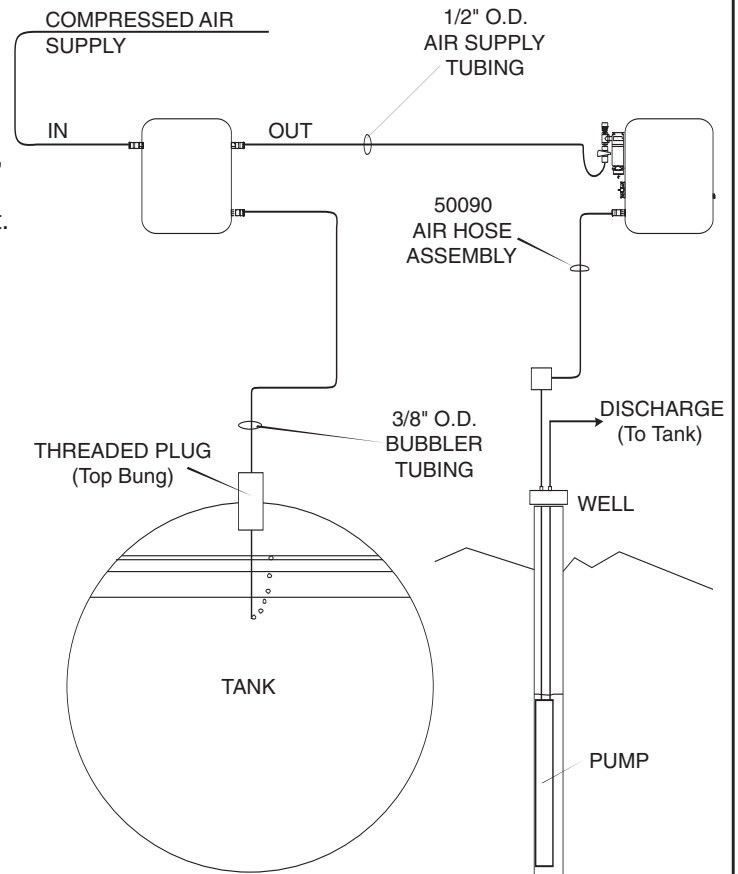
Model 53021  
Full Tank Shut Off

The GEOPUMP Pneumatic Full Tank Shut-Off is a bubbler activated liquid level sensor. Automatically responding to changes in liquid level, the device turns the air supply to the cycle controller(s) off when the tank is full, thereby disabling the downwell pneumatic pump(s).

Liquid level is monitored via a bubbler tube that is placed at the top threaded bung of a product holding tank. A low pressure air supply is metered through the bubbler tubing, and the back pressure due to the height of the liquid level above the tube is sensed by a control valve within the unit. The control valve opens and closes as the liquid level changes.

### Installation Notes:

1. Install the unit near the main system controller, mounting it vertically.
2. Cut the bubbler tubing to the desired length and attach it to the threaded plug at the product holding tank. Tighten the compression nut on the bubbler probe 1 to 2 turns beyond finger tight for a leak free seal.
3. Attach the free end of the bubbler tubing connector on the right side of the enclosure.
4. Attach 1/2" O.D. air supply tubing to the tubing connector on the left side of the enclosure.
5. Attach 1/2" O.D. tubing from the connector on the right side of the enclosure and to the inlet of the primary system controller.
6. The system is now ready for start up.



Schematic shown for single well pumping system.  
Other configurations available.

This unit is packaged within a non-metallic enclosure and includes the following features:

- 5 micron inlet air filter with automatic drain.
- 3/8" O.D. tubing connector for bubbler tubing attachment.
- 1/2" O.D. tubing connectors for air inlet and outlet connections.
- 2" threaded plug for top bung product holding tank with dip tube and 3/8" O.D tubing connector for the bubbler tubing attachment.
- Pressure regulator and 0 to 15 psi pressure gauge for bubbler tubing pressure adjustment.
- 0 to 160 psi pressure gauge to indicate status of the unit and line pressure.

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