Reverse Float Level Gauge:

An Inside Look at the Reverse Float Level Gauge

Knowing the liquid level in a chemical storage tank is important for a number of reasons. You have to know when to order more chemical, and certain chemicals have to be stored at a specific level to maintain their properties and/or operational requirements. A reverse float level gauge is helpful in that it lets you know, from the outside of the system, how much chemical is in your tank.

Why Design a Level Gauge

A level gauge of any kind monitors the liquid level of what is being stored in the polyethylene tank. There are several types of gauges including clear tube level gauges, ultrasonic level gauges, etc. While Poly Processing works with many types of level indication, in almost all cases we recommend our reverse float gauge for use with chemical storage tanks.

How a Reverse Float Level Gauge Works

Perhaps counterintuitive at first glance, this simple level system contains a float inside the tank and a visual indicator on the outside. As the tank is filled, the chemical lifts the float which in turn allows the weighted indicator on the outside to move down. This is done using a pulley system with polypropylene rope and PVC rollers inside of PVC elbows. As the tank empties, the float inside the tank drops pulling the indicator up. This is why it is called a reverse float level gauge. (Continued On Back Page)

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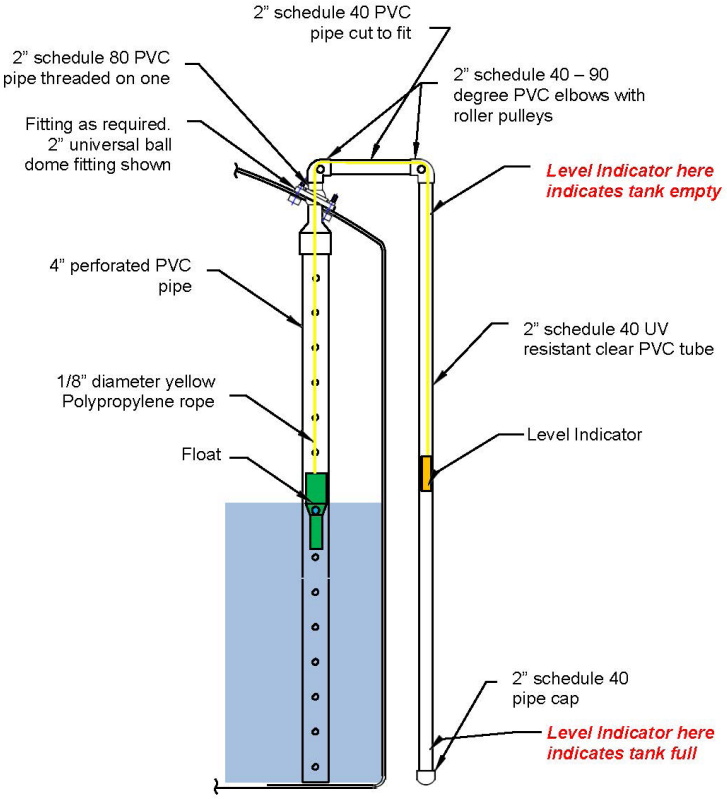
Reverse Float Level Gauge (continued):



When the tank is full, the visual indicator is at the bottom of the tank and when the tank is empty it is at the top. It is reverse of the level it indicates and has many advantages as discussed below.

The Value Behind a Reverse Float Level Gauge

The reverse float level gauge is unique in that it is a simple system which does not require chemical on the outside of the tank to give the user a reading. The reverse float level system can be used on almost any tank including double walled SAFE-Tanks. Some of the many advantages include:

- No sidewall tank penetrations or chemical exposure needed
- All joints are dry fit for easy part replacement
- Internal float works for any chemical
- No stains on clear pipe from chemicals or UV attack
- No siphoning of the tank if the pipe breaks due to chemical in the pipe
- No chemicals burns or chemical spurts on personnel
- The chemical resistant rope used for the assembly is polypropylene
- Elbows and rollers inside of the elbows are made of high quality PVC
- Reverse calibration tape can be added for tank capacity
- Mechanical verification of ultrasonic or other electronic level sensor
- Standard or Free Standing Pipe supports are available