



Small Chamber Magnetic Level Gages in Renewable Natural Gas (RNG) Applications

Small chamber magnetic level gages are highly effective for various applications in RNG facilities due to their robustness, accuracy, and low maintenance requirements. By ensuring compatibility with the specific conditions and regular maintenance, these gages can provide reliable and precise liquid level measurements, contributing to the efficient and safe operation of RNG systems.

APPLICATIONS:

Storage Tanks:

- **Monitoring Liquid Levels:** In RNG applications, magnetic level gages can monitor the levels of various liquids, such as condensate or other byproducts, within storage tanks. Accurate measurement is crucial for maintaining operational efficiency and safety.

Separation Units:

- **Phase Separation:** RNG production often involves separating different phases (e.g., liquid and gas). Magnetic level gages can be used in separators to measure the liquid levels and ensure proper phase separation.

Scrubbers and Dehydrators:

- **Monitoring and Control:** In systems like scrubbers and dehydrators, which are used to remove impurities and moisture from the gas, magnetic level gages help monitor the levels of the liquid scrubber solution or desiccant, ensuring optimal performance.

Buffer Tanks:

- **Ensuring Continuity:** Magnetic level gages can help monitor buffer tanks that store liquid before it's used in the RNG process or before it's transported to other parts of the system.

CONSIDERATIONS:

Material Compatibility:

- Ensure that the materials used in the gage are compatible with the fluids and gases involved in the RNG process. Some fluids might be corrosive or reactive, requiring special materials or coatings.

Temperature and Pressure Ratings:

- Verify that the gage's temperature and pressure ratings are suitable for the specific conditions in your RNG application. This ensures accurate measurements and prevents damage.

Installation:

- Proper installation is key to reliable operation. The gage should be installed in a way that accurately reflects the liquid level and is positioned to minimize potential interference from other equipment or processes.

Maintenance:

- Regular maintenance and calibration are important to ensure the gage continues to provide accurate readings. Check for any signs of wear or contamination that might affect performance.

Explosion Proof and Hazardous Area Ratings:

- Depending on the RNG facility's location and the potential presence of explosive gases, ensure that the gage is rated for use in hazardous areas if necessary.

ADVANTAGES:

Accuracy in Harsh Environments:

- RNG processes often involve corrosive or variable conditions. Magnetic level gages are durable and can handle these environments without the risk of measurement inaccuracies caused by fouling or steam.

Compatibility with High Pressure and Temperature Conditions:

- Many RNG processes operate under high pressures and temperatures, and magnetic level gages are well-suited to handle these conditions without compromising performance.

Visual Indication:

- The clear visual indicators on magnetic level gages provide immediate and accurate readings, which is beneficial for quick decision-making and troubleshooting.

