PROJECT OVERVIEW

APPLICATION BRIEF

AGRICULTURAL CHEMICAL MIXING

May 3, 2024

Many farmers prefer to mix their Agricultural Chemicals on site rather than buying premixed chemicals. To do this, the farmer purchases chemical concentrates, then mixes them with water and sometimes other chemicals based at precise ratios called out in recipes. This offers several advantages, including:

- Adjusting chemical blends to field conditions such as wind and soil conditions
- Adjusting the batch size based on field size
- Storing concentrates takes up less space than storing premixed chemicals

To mix chemicals safely and effectively, it is important to measure the chemicals and water accurately. FLOMEC® Oval Gear Flow Meters are an excellent choice when choosing an accurate flow meter for agricultural chemical mixing.

Meter Requirements:

- Flow meter should be installed between the chemical or water tank and the valve.

PRODUCT SPECIFICATIONS

- Accurate to within 0.5% of flowrate with clean, viscous fluids, unaffected by temperature changes
- No flow conditioning required (straight pipe runs) - can be placed directly after pumps or valves with no effect on accuracy
- Robust - made with PPS body and Rotors with no bearings
- Wide flow range
- Low pressure drop
- For manual operation, a display must be included
- For automatic valve control, the flow meter must have a pulse output (Reed switch or Hall Effect Sensor) for use with batch controllers and other controllers

PRODUCT SOLUTION

FLOMEC® Oval Gear chemical flow meters are well suited for this application, whether your manually mixing based on displayed totals or using a batch controller to operate valves automatically based on preprogrammed volumes.

This flow meter is available in 1” size with a local display for manual mixing. It is also available without a display and pulse output (combination Reed Switch and Hall Effect Sensor) for use with batch controllers for semiautomated mixing.

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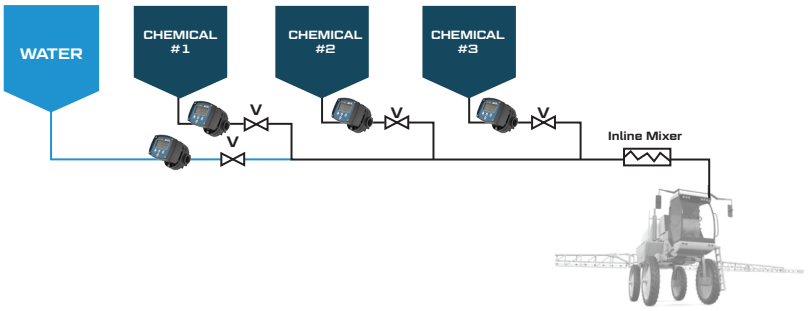

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