

## APPLICATION BRIEF

# CHEMICAL BATCHING

January 22, 2025

### PROJECT OVERVIEW

A small-scale chemical batching operation required a precise and efficient method for repackaging cleaning solutions from 1000L Intermediate Bulk Containers (IBCs) into 5L bottles. The existing manual process relied on turning IBC valves on and off, leading to inefficiencies such as:

- Spillage and product waste.
- Inconsistent fill volumes.
- Increased labor time due to lack of automation

The goal was to implement a reliable, compact solution to improve batching accuracy and operational efficiency

#### Application Requirements:

- Accurate measurement of small short batch size, 5L
- Semi-automation of the filling process to minimize idle labor and reduce costly spillage or rework
- Easy installation, set-up and operation to minimize training and costly specialists
- Compact overall footprint to seamlessly fit onto IBCs without expensive modifications

### PRODUCT SPECIFICATIONS

#### EB11 Batch Controller

- Simple single-stage batch controller capable of both small and large batch sizes
- Easy-to-read display with simple push-button operation
- Compatible with a wide range of flow meters and control valves

#### OM025PPS Oval Gear Flow Meter

- Precise volumetric measurement with high repeatability, even on short or intermittent run operations
- Corrosion-resistant PPS that can withstand mild and even harsh chemicals
- Capable of being installed next to pumps, valves, reducers or bends without affecting accuracy

### PRODUCT SOLUTION

Locally mounted EB11 batch controller on a OM025P Oval Gear Flow Meter, paired with a solenoid valve provided a simple, compact batch controlling system.

Benefits of implemented system included:

- Operational Efficiency: Faster process with precise and repeatable results
- Cost savings: Reduced waste through accurate dispensing, and labor savings
- User Satisfaction: Simplified operations with minimal manual intervention, saving time and effort

