

Micro Motion® Meters Optimize Chemical/Liquid Additive Delivery in Thousands of Applications

BENEFITS

- Precise usage and billing of chemical/liquid additives
- Little or no maintenance costs
- Improved measurement reliability in delivery systems
- Early detection of abnormal situations



APPLICATION

Oilfield Services – Chemical/Liquid Additives

Oilfield Services companies use chemical/liquid additive delivery systems in cementing and stimulation to complete wells and enhance production. Different chemicals are pumped at specified volumetric rates to achieve the target fluid properties. Each job calls for a unique combination of chemicals and injection rates.

CHALLENGE

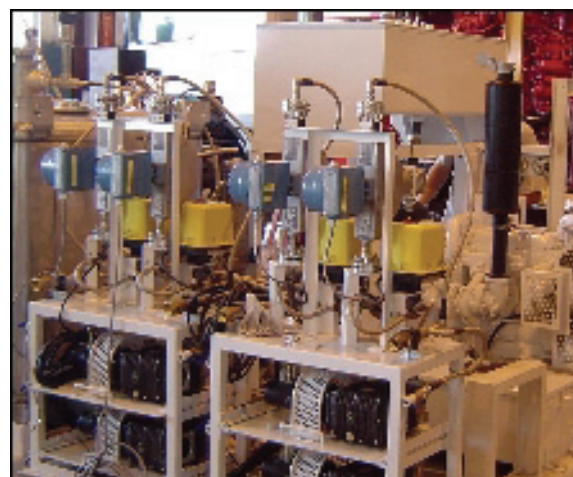
Accurate metering of chemical additives must account for variations in fluid density, viscosity, composition, and conductivity. Because downhole flow rates can vary widely, additive flow rates also vary widely in order to maintain proper blends.

The measurement devices utilized in these systems must be capable of integration into automated systems. These devices must also be immune to the harsh conditions common to oil field locations such as vibration, shock, and extreme weather variations.

Metering pumps (stroke counters) can indicate flow when no flow is present. The mechanical components of pumps and many flow devices (e.g., turbine meters) are subject to failure, wear, and degradation in measurement performance over time. This impacts both accurate delivery of and billing for additive chemicals.

Micro Motion meters measure all types of chemical additives across a wide range of field-proven applications.

www.micromotion.com



For more information:
www.EmersonProcess.com/solutions/oilgas
www.micromotion.com



SOLUTION

Micro Motion® meters measure all types of chemical additives across a wide range of field-proven applications. A single meter can accurately measure fluids of different composition, density, viscosity, and conductivity while maintaining accuracy over a wide range of flow rates.

Because Micro Motion meters have no moving parts, they do not wear over time like mechanical meters. This means that Micro Motion meters maintain their accuracy, thereby preserving job integrity. Analog and digital outputs are available for integration into a data acquisition system. A local display can provide visual indication that fluid is being pumped and to monitor flow rate.

By utilizing the density output of a Micro Motion meter in conjunction with sensor diagnostics, the meter can be used to validate fluid quality, indicate air in the system, and verify pump performance.

