Coriolis Filling & Dosing Measurement Solutions
Superior mass-based measurement for outstanding results

High-speed filling
Next-Generation Coriolis Filling Solutions – only from Micro Motion®

For unbeatable results, upgrade your filling process with Micro Motion Coriolis direct mass measurement and realize unmatched results in demanding high-speed filling and dosing applications.

Upgrade for Performance

Pressure is increasing in the filling and dosing industry to reduce overfills, maximize machine uptime, meet regulations, and handle an ever-increasing number of liquid products and fill sizes. These challenges are compounded by greater focus on increasing throughput while drastically minimizing changeover time.

No longer are volumetric-based technologies sufficient nor are meter-based systems, such as piston and magnetic flow technologies, capable of meeting the current demand on processes and operations. Your organization requires a high performance, durable, and unmatched technological solution that ensures you meet operational requirements while differentiating your offering from the competition.

Emerson has designed a new Micro Motion Coriolis meter and transmitter specifically for filling and dosing applications that delivers unmatched performance in high-speed filling and dosing applications. This technology is superior to other Coriolis-based systems by superbly handling the dosing of challenging fluids such as those with entrained gas, suspended solids or highly viscous – very common traits in products handled by the filling and dosing industry.

Micro Motion Coriolis filling meters are optimized for sub-second fills and very small containers, making them ideal for linear or rotary filling machines in a range of industries and applications:

- Pharmaceutical and nutraceutical
- Food and beverage
- Chemical
- Cosmetic and personal care
- Household products

<table>
<thead>
<tr>
<th>Feature</th>
<th>Micro Motion Coriolis</th>
<th>Other Coriolis</th>
<th>Magmeter</th>
<th>Volume Piston</th>
<th>Time Pressure</th>
<th>Weight Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fill accurately with changes in temperature, flow or fluid properties</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Able to handle entrained air, suspended solids and viscous fluids</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Immune to temperature shocks from CIP/SIP</td>
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<td>●</td>
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<tr>
<td>Super small fills (&lt; 10 grams)</td>
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<td>●</td>
<td>●</td>
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<tr>
<td>Super fast fills (&lt; 1 second)</td>
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<td>●</td>
<td>●</td>
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<td>●</td>
</tr>
<tr>
<td>Digital communications for real-time performance and quality data</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<td>●</td>
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<tr>
<td>Fill multiple fluids and container sizes with one device</td>
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<td>●</td>
<td>●</td>
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<td>●</td>
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<tr>
<td>Integrated discrete value control/ digital comms in compact profile</td>
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<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Changeover time</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>No regular maintenance calibration required</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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</tr>
</tbody>
</table>
Higher throughput, flexible machines, more rapid changeover and less product waste – just some of the benefits you can expect from Micro Motion Coriolis mass meter filling technology. With the widest range of Coriolis meters dedicated for the filling and dosing industry, Micro Motion delivers unparalleled service and expertise in Coriolis and filling integration strategies.

Unmatched Coriolis Filling & Dosing Performance

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Only Micro Motion technology increases filling machine efficiency

Greater Uptime and Throughput

- No moving parts in meter reduces maintenance and changeover time
- Compact profile maximizes throughput for a given machine size
- Hygienic, fast and easy clean-in-place allows rapid changeover times
- Immunity to temperature shocks from CIP/SIP procedures keeps stable, reliable performance

Reduced Costs

- Direct mass measurement improves yields and reduces spillage with Automatic Overshoot Compensation (AOC) and discrete valve control for on-set-point fills every time
- Digital temperature and density reporting provides live, on-line quality control data preventing packaging off-spec product
- Change of recipe and fill set point can be done digitally, ‘on the fly’
- Meter health status and easy in-line replacement of electronics module reduces maintenance costs

Greater Flexibility

- Handles any type of products: viscous; with entrained gas; suspended solids
- A single size meter handles a wide range of container sizes
- Optimized for sub-second fills (< 1 sec) and very small fills (< 1 ml)

The results with Micro Motion Coriolis filling meters were higher efficiency by improved reliability – 10,000 containers per shift versus 8,000 with older less reliable filling technology.

Mike Mihalik
Pneumatic Scale Angelus

Upgrade to Micro Motion Coriolis

- Fill sizes down to 1ml
- Fill times as fast as 0.5 seconds
- Pulse output
- Integrated discrete valve control
- Digital protocols
- Compact, hygienic and easy-to-clean design
Emerson’s Micro Motion is known globally in over 85 countries for its quality and reliability. As part of the Emerson PlantWeb® digital plant architecture, Micro Motion enables increased plant availability, decreased costs and enhanced safety. With over 750,000 meters installed around the world, Micro Motion delivers application expertise, service and technical support not available elsewhere.

Benefit from the wide range of Micro Motion solutions available

- Exceptional measurement and operating performance in entrained gas conditions
- World-leading dedicated density measurement devices
- Solutions for high and extreme temperature applications
- Best-in-class compact and drainable Coriolis
- Exida Safety-certified Coriolis for SIL-2 and SIL-3 applications
- Excellent global product service and support

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