

Pharmaceuticals optimize performance

Promass 83F solves entrained air deviation in drug coating

Benefits at a glance

- Improved uptime to meet production time
- Consistent results resulting in greater reliability and increased uptime
- Resolved deviations by using mass method vs. scale



A global pharmaceutical manufacturer of generic drugs required an accurate flow measurement solution to meet its pan coating application needs. During the spray and dry process of pan coating, the customer coats generic drug tablets with a solvent solution. This coating process is carefully monitored for potential entrained gas within the pressurized slurry tanks, where nitrogen causes frequent deviations.

The Challenge The pharmaceutical manufacturer needed an accurate solution that better fit its application needs, as its current instruments did not. Incorrect measurement from these outdated, third-party metering devices posed a major obstacle for the customer, as the meters required frequent rezeroing between batches. For example, if the meter failed the spray nozzle test, a technician would have to investigate the failure, causing calibration to halt production, rezero the meters with water, retest, and proceed coating the batch. Moreover, the solution must remain FDA compliant during inspections.

Our solution Proline Promass 83F Coriolis flowmeter

Endress+Hauser collaborated with the customer to ensure the flow measurement solution fit the customer's specific application. After evaluating the pharmaceutical manufacturer's needs, Endress+Hauser recommended a Promass 83F Coriolis flowmeter with a current output. This instrument provides the customer consistent measurement results, eliminating the need for frequent rezeroing and process downtime. The Promass 83 also allows the customer to quickly resolve deviation issues while remaining FDA compliant.

Solution details The Promass 83F is the flowmeter with premium accuracy, robustness and extended transmitter functionality. It has a long standing reputation as a highly accurate device under varying process conditions. It is suited for a broadest range of applications. Combined with the Promass 83 transmitter with touch control, four line display and extended functionality like software options for filling and dosing, concentration measurement or advanced diagnostics, Promass 83F offers premium accuracy in measurement of liquids and gases.

Results: After installation of the Promass 83F, the pharmaceuticals company increased uptime to meet production requirements and saw consistent results. Furthermore, the mass method resolved deviations more efficiently than the previous scale method.



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