

Fill-MAG Magnetic Flowmeters



ABB Instrumentation

FISCHER
& PORTER 

ABB

filling WITH *precision*

EXACT DOSING

Industrial facilities that use filling and dispensing processes place a high priority on exact measurement of doses with high repeatability for both small and large batches.

This is because industries such as food and beverage, cosmetics, pharmaceuticals and chemicals have very different needs, many of which arise from the legal requirements for a guaranteed minimum quantity. At the same time, companies are looking for ways to minimize the costs of production and overfilling.

The ABB Instrumentation's Fischer & Porter brand Fill-MAG dispensing system meets all these needs and more. This unique system offers better quality control for a more exact and reproducible dispensing process. Better control of the process leads to a significant reduction in overfill, while maintaining minimum quantity accuracy.

CONVINCING ADVANTAGES

The core of the Fill-MAG system consists of a quick response, stainless steel-encased flowtube, coupled with an intelligent electronics package. The system also features special software for repetitious batching with a reproducibility of $\leq 0.2\%$ of rate.

The Fill-MAG converter is microprocessor-based and controls all relevant data necessary for system operation. The system is equipped with a special device for detecting overruns and a unique algorithm which automatically identifies and corrects variations caused by changing operational conditions. Factors such as varying input pressures and temperatures will no longer affect your filling accuracy.

COMPACT DESIGN

Both the Fill-MAG primary and converter are physically small. This facilitates battery or close mounting, saving you installation space and cost.

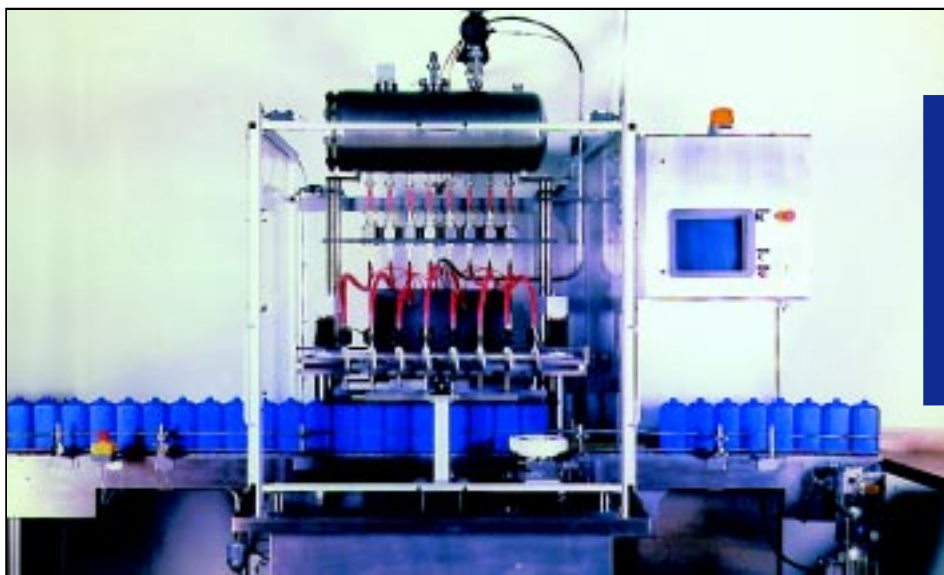
REDUCED MAINTENANCE COSTS

Typical filling systems are based on mechanical filling principals. Piston fillers and the like have many moving parts and are susceptible to mechanical wear, which can affect the accuracy and mechanical life of the system.

Fill-MAG has no moving parts to wear out, installations are virtually maintenance-free, and the embedded self-diagnostics monitor all operational parameters for continuity.

DESIGN FEATURES

- $< 0.2\%$ of rate repeatability.
- 3-A stainless steel primary with tri-clamp connections for the food industry.
- Self-regulating control algorithm to correct for changes in process conditions.
- Two-stage filling is available through the use of an anticipatory contact.
- No moving parts means high reliability with very low maintenance requirements.
- Serial data interface for communications with supervisory controllers.



SAVINGS AT A GLANCE

- Reduced waste of overfilling
- Reduced maintenance time and costs.
- Reduced downtime
- Space-saving installation

The filling application shown at left includes filling heads, a receiver container with integrated pressure and level control, and pressure-controlled valves. The unit features installation configuration and operating control via a standard PC. It is adaptable to various hoop sizes.

For additional information about ABB Instrumentation please visit our web site at www.abb.com/automation