

PRESS RELEASE - December 2010

Accurate dosing of small mass flow rates

Bronkhorst Cori-Tech B.V., the Netherlands, has introduced CORI-FILL™, a compact solution for fluid dosage, based around the extremely accurate mass measurement of its (mini) CORI-FLOW series of Coriolis-type instruments, for flow rates between 400 mg/h and 600 kg/h. Developed using innovative hardware and software, CORI-FILL technology features integrated batch counters and the facility to directly control a close-coupled shut-off valve for brief batch sequences down to <0.3secs, a proportional valve for longer sequences, or a liquid pump for dosing without the need for pressurised vessels. CORI-FILL offers all this functionality, with plug and play simplicity that enables an immediate start to dosage duties after connecting power and fluid accessories, in one compact footprint and from one supplier, with single point responsibility.

In contrast with gravimetric processes using weighing scales, where compounds are dosed one by one, CORI-FILL systems can add all ingredients simultaneously, shortening batch and agitation cycles, as well as improving quality. The amount to be dosed can be easily preset by programming the batch counters via a fieldbus connection, with all the standard digital protocols available.

Due to the small footprint of the (mini) CORI-FLOW instruments, it is possible to fit the flow meter extremely close to the shut-off valve, which results in fast response times and even greater accuracy, since there is a minimal delay effect in the pipeline. It is also possible to mount multiple CORI-FILL assemblies together in highly compact, simultaneous dosing systems, with the absence of moving parts or line intrusions which results in less maintenance and cleaning downtime.

CORI-FILL is designed for batching, blending, dosing, filling, sterilisation and similar duties in the food and beverage, pharmaceutical, cosmetics, contact lens and life sciences industries, as well as being of interest to OEM machine builders. Suitable for all types of liquid additives, fragrances, flavours and colourants, including those with entrained air or solids, the Coriolis direct mass measurement method eliminates volumetric variation caused by changing temperatures and densities of ingredients, leading to accurate, repeatable quantities batch after batch.

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Coriolis Mass Flow Meter with integrated on-off valve

Coriolis Mass Flow Meters and Controllers