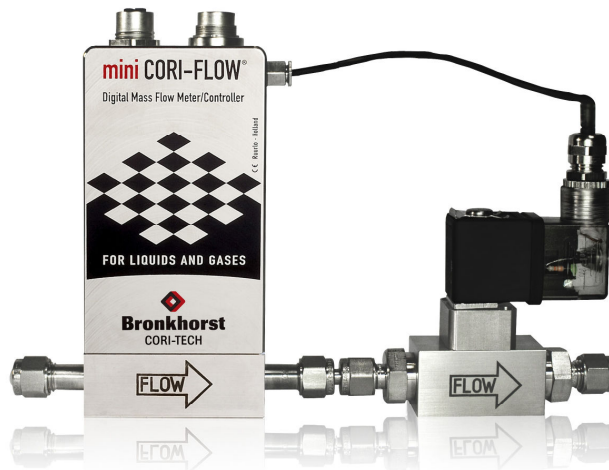


Improved dosing applications using Coriolis instruments with CORI-FILL® technology

How to overcome the disadvantages of using weighing scales? How to shorten production time and meanwhile improve the quality of the final product? The integration of (mini) CORI-FLOW® instruments in your production machines could improve the process efficiency unprecedentedly.

CORI-FILL® technology features integrated batch counters and the facility to directly control shut-off valves, proportional valves or (gear) pumps. Due to this technology, Bronkhorst Cori-Tech can offer compact assemblies of (mini) CORI-FLOW® instruments combined with a valve or pump, capable of dosing the exact desired amount of fluid.



Contrary to the gravimetric process (scales), multiple fluids can be dosed simultaneously. Furthermore weighing scales need to be nulled when switching from one fluid to another, whereas instruments with CORI-FILL® technology just require a short reset command to start the next batch. The amount to be dosed can be easily preset by programming the batch counter via a fieldbus connection. This batching method is faster and more compact than the process with weighing scales, but comparably accurate.

Due to their small footprint it is possible to mount the (mini) CORI-FLOW® instruments close to the shut-off valves. Therefore the internal volume is minimized, which results in a fast response time and highest accuracy (minimum delay-effects in the piping).



Benefits:

- Shorter production times, due to simultaneous dosing of compounds.
- Better product results, due to less evaporation of volatile fluids.
- Compact solution, due to small footprint, without long tubing between flow meter and valve or pump.
- Reduced risk of gas enclosure in tubing causing delay effects.
- High accuracy due to Coriolis technique and compact assembly.
- Automatic overrun correction.
- Fast response times (down to < 0.5 sec.).
- Mass and volume dosage possible (using density information).
- Less overhead for PLC/operating system thanks to CORI-FILL® technology using integrated batch counter and direct actuator control.

Markets:

Pharma, chemical, food & beverage

Applications:

Dosage of additives, fragrances, flavours, colorants, H₂O₂ (for sterilization)

Coriolis Mass Flow Meters and Controllers