

## VersaFlow Coriolis Mass Flow Meters for the Food and Pharmaceutical Industries



Mass flow measurement has become more and more critical in both the food and pharmaceutical industries. Whether it's the ability to inline batch or the need to simultaneously measure mass flow, volumetric flow, density and/or temperature, the use of Coriolis mass flow meters has become an integral part of production. Honeywell's VersaFlow Coriolis mass flow meters offer innovative flow measurement technology with the ability to provide a straight through single or dual tube design. Typical applications include:

### Sterile Water Dosing

- Sterile water is mixed with additives before filtration to produce pharma grade nutrient solution
- Titanium meters used for sterile water batching applications
- Pulse output can be given to batch control system
- Straight tube design results in lower pressure drop
- Complete drainability
- Operating temp 20°C (68° F) with steam cleaning up to 130°C (265° F)



### Flow Measurement of Concentrates in Stock Tank

- Service: Fruit juice concentrate
- Highly viscous at 4°C (40° F)
- Operating pressure: 10 bar (145 psi)
- BRIX Calculation: Option
- Cleaning and emptying the device is simple and easy due to the straight tube design of the mass flow meter
- Flow measurements in storage and mixing tanks



### Dosing Liquid Hop Extract

- Precise dosing of hops (nonconductive and viscous)
- Optimizes the boiling process, improves the taste and quality of beer
- High accuracy requirements
- Multivariable sensor for mass, density, temperature and volume
- Single straight measuring tube results in less shear stress on liquids

### BRIX Density Measurement Using VersaFlow

- Exact ratio of water feed to quantity of sugar determines the BRIX value of finished sugar syrup
- Direct measurement of density and BRIX using straight tubes
- CIP and SIP cleaning done easily



### Accurate Consumption of Chocolate

- Mass flow rate: 1000 or 4000 kgs, temperature: 45°C (85° F), viscosity: 1000 mPas
- Meter size: ½" titanium with heating jacket
- Hygienic design and straight tubes

### Other Fluid Applications

- Pet foods
- Vegetable oil
- Ethanol
- Wort measurement
- Animal feed stock
- Butter fat
- Sauce/ketchups
- Glucose
- Olive pulp
- Yeast
- Gelatin
- Milk/condensed milk
- DM/pure water
- Soft drinks
- Alcohol: Whiskey and wines
- Honey
- Biscuits
- Cheese
- Yoghurt



### More Information

For more information on VersaFlow Coriolis mass flow meters, visit [www.honeywell.com/ps](http://www.honeywell.com/ps) or contact your Honeywell account manager.

### Automation & Control Solutions

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