



Level



Pressure



Flow



Temperature



Liquid Analysis



Registration



Systems Components



Services



Solutions

Pet Food Meat Slurry

Promass 83F provides repeatable batch control in high solids content and viscous fluids



Healthy dog from high quality dog food



Promass 83 F



Promass instruments in batching system

Product Information

The Promass 83F Coriolis mass flow meter can accurately measure high solids, viscous, or fluids with entrained gas with excellent repeatability.

Customer Profile

A U.S. manufacturer of wet pet food products was having trouble achieving accurate batch control on multiple grades of meat byproducts in their blending operation. The meat byproducts included beef, chicken, pork, turkey, and fish.

Value Proposition

- Quality
- Revenue
- Cost
- Efficiency
- Risk
- Soft Facts

Application description

Meat slurries contain solids, fats, and water contents which can vary. The viscosity on the product can reach 30000 cPs. Like most higher viscosity fluids, meat slurries tend to trap gas or can decompose producing methane. Liquid contents can vary from 40-60% in the process. These fluids usually have a non-Newtonian nature and are shear thinning.

Application challenges:

Instrument used:

83F1H-AAASAARDB2E2

Previous instrument:

Competitors Coriolis meters

Measurement results:

The Promass 83F exceeded the customer's expectation of batch repeatability and stability in non-flowing conditions. Density measurement was also possible and could be used as a gauge of incoming raw material.

Instrument description:

The Promass F series Coriolis meter has a dual, slightly bent tube design available in either 904L stainless steel or Hastelloy-C materials of construction. This meter incorporated Advanced Diagnostics for batching operation stability with entrained gas.

Measuring principle

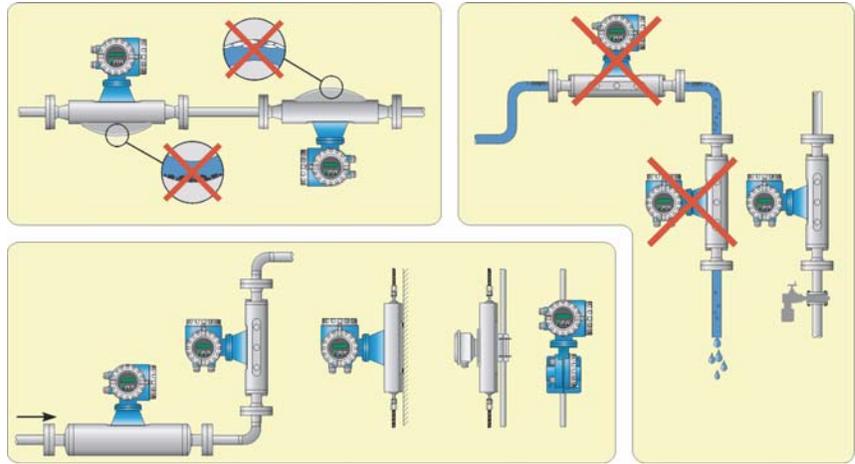
The Promass 83F uses the Coriolis principal to directly measure the mass of the fluid and determines product density by the sensor resonant frequency of operation.

For more information contact:

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Promass installed in process



Typical installation recommendations for Promass flow meters

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