



OpreX™ Field Instruments

ROTAMASS TI Hygienic Series

for Food and Beverage Solutions

Food & Beverage Solutions for Hygienic Processes

3-A, EHEDG, and NTEP Certified

ROTAMASS Hygienic



Batch processing is difficult to perform?



Simple batch setup and operation

Typically, a counter or controller is required to operate a batch process; however, the Rotamass TI Hygienic model is equipped to perform one or two-stage batch operations. It can also detect and compensate valve closing time and "leakage."



Need measurements additional to the flow value?



Multiple measurement values all-in-one

The Rotamass TI Hygienic model not only measures the mass flow rate, temperature, and density, but calculates the volumetric flow, viscosity and concentration; such as starch or °Bx.



Daily maintenance downtime?



Excellent maintainability and Daily maintenance simplified

Integrated Tube Health Check function, monitors and detects signs of clogging, reducing the frequency of unexpected line stoppages.



Self-draining and hygienic design

U-shaped tube design and self-draining construction reduces potential stagnation.



Reduced accuracy below nominal flow rate??



Best in Class - Zero Stability

The Rotamass TI Hygienic model has excellent flat spec-accuracy.



Flow tube surface obstruction?



Surface roughness wetted parts less than 0.8µm

The Rotamass TI Hygienic model has a surface roughness of 0.8µm or less; thus conforming to hygienic requirements of 3-A and EHEDG.



Lack of stable measurement readings due to gas bubbles?



Stable measurement made possible with unique technology

The Rotamass TI Hygienic model enables stable measurement of raw milk, or other fluids with a large amount of bubbles, by properly controlling the measurement sensitivity and providing a reliable reading.



Limited space for pipe run requirements?



No straight run requirements

The Rotamass TI Hygienic model is not affected by flow velocity distribution due to its unique measurement principle. Therefore, upstream/downstream pipe runs are not required.

ROTAMASS
hygienic

General Specifications

Model Type	Integral or Remote
Maximum Measurement	76t/h
Mass flow for liquids	±0.1% of reading
Process Conditions	-70°C ~ +140°C (-94 ~ 284 °F)

Materials and Process Connections

Material of wetted parts	316L/1.4404
Process Connection Type	Threaded or Clamp

Approvals / Certifications

Certificates	3-A or EHEDG
Functional Safety	SIL 2 (SIL3)
Hazardous area approvals	IECEX, ATEX, FM (USA/Canada), NEPSI, INMETRO, Ref to GS for additional approvals

Communication Type

	HART
Protocols	Modbus
	PROFIBUS-PA

Advantages and Benefits

- Inline measurement of several process variables, such as mass, density and temperature.
- Since the meter provides advanced functions such as batching and viscosity, an external flow computer is not required.
- Total Health Check (diagnostic function):
- Self-monitoring of the entire flow meter, including accuracy
- Vibration-resistant due to counterbalanced double-tube measurement system
- Self-draining installation

OpreX™

Yokogawa achieves operational excellence by providing products, services, and solutions based on the OpreX comprehensive brand that cover everything from business management to operations.

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