

G3A SERIES - 3A FOOD & BEVERAGE HIGH-PRECISION TURBINE FLOW METER



3A Turbine Flow Meter
with 2-Wire or 3-Wire
Magnetic Pickup Options



The **FLOMEC® G3A Series High Precision Flow Meter** is the most accurate of all FLOMEC® Turbine Flow Meters. This meter was designed to meet the strict 3A Sanitary Standards for any food and beverage application.

The G3A series' robust design provides reliable performance while delivering economical operating costs. The internals of the G3A series are machined and polished to meet 3A self-draining and cleaning requirements (Ra 32). Parts are easily replaceable making lifetime maintenance of the turbine flow meter a preferred choice.

SPECIFICATIONS

Technology:		Turbine
Line Size:		1 in., 1½ in., 2 in.
Accuracy (% of Reading):		± 0.5%
Repeatability:		± 0.1%
Material Housing:		316 Stainless Steel
Fitting Type:		Sanitary Clamp
Flow Range:	(100) 1"	6.7-67 GPM (25-252 L/min)
	(150) 1½"	17.7-177 GPM (67-670 L/min)
	(200) 2"	33-330 GPM (125-1250 L/min)
Pressure Rating:		Limited by fitting size, clamp size and temperature.
Operating Temperature:	RT14	-22°F to 176°F (-30°C to 80°C)
	2-Wire	-100°F to 250°F (-73°C to 121°C)
	3-Wire	-40°F to 248°F (-40°C to 120°C)
Fluid Temperature:		RT14 -22°F to 225°F (-30°C to 107°C)
For SIP (up to 1 hour):		285°F (140°C)
Typical K-Factor:	(100) 1"	896 PPG (237 Pulses/L)
	(150) 1½"	340 PPG (90 Pulses/L)
	(200) 2"	181 PPG (48 Pulses/L)
Wetted Materials:	Housing:	316 Stainless Steel
	Bushings & Bearings:	PEEK
	Shaft:	316 Stainless Steel
	Rotor:	CD4MCu Stainless Steel
	Rotor Supports:	316 Stainless Steel
	Retaining Rings:	300 Series Stainless Steel
Out Frequency:	(100) 1"	100 - 1000 Hz
	(150) 1½"	100 - 1000 Hz
	(200) 2"	100 - 1000 Hz
Recommended Filtration:	1"	40 mesh (420 µm)
	1½"	18 mesh (1000 µm)
	2"	14 mesh (1410 µm)
Calibration Report:		Comes standard.
		N.I.S.T. – Certification available.

FEATURES / BENEFITS

- Proven turbine design that provides the best total operating cost
- Meets Clean in Place (CIP), Steam in Place (SIP), and Clean Out of Place (COP) requirements to allow for any sanitary procedure that work best for plant managers
- ± 0.5% accuracy of reading and ± 0.1% repeatability providing reliable, accurate flow measurement
- Multiple blind pulse out options available for connection to a variety of PLC, display equipment, and process control equipment
- Factory installed local Rate and Totalizer display available with digital, analog and flow alarm outputs
- Wide temperature range to accommodate various stages of food and beverage processes
- Turbine capable of 285°F (140°C) temperature up to 1 hour for SIP sanitary procedures
- 4-20mA analogue output according to flow rate
- Scaled pulse output according to accumulative total

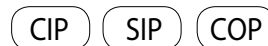
FLUIDS

- Milk
- Water
- Beer
- Alcohols
- Filtered Wine
- De-ionized Water
- Vinegar
- Light Oils
- Juice
- CIP Solution

APPROVALS / WARRANTY



This flow meter meets the strict 3A Sanitary Standards using the new "Third Party Verification" (TPV) program. Our methods of design, construction and traceability of components have been reviewed and approved.

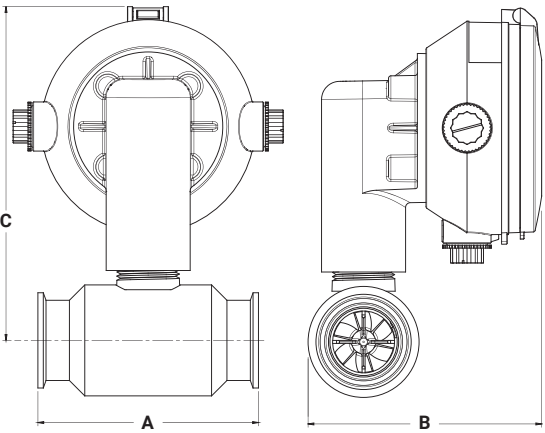


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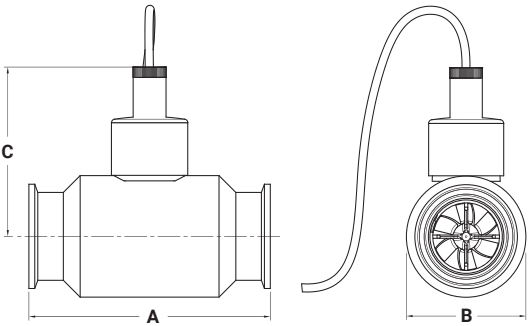
HIGH-PRECISION TURBINE FLOW METER

DIMENSIONS

G3A Turbine RT14 Display	Dimension "A"	Dimension "B"	Dimension "C"
GSCPS-100-RT14	3.6 in. (9.1 cm)	4.7 in. (11.9 cm)	7.7 in. (19.6 cm)
GSCPS-150-RT14	4.6 in. (11.7 cm)	4.9 in. (12.4 cm)	7.9 in. (20.1 cm)
GSCPS-200-RT14	6.0 in. (15.2 cm)	5.2 in. (13.2 cm)	8.2 in. (20.8 cm)



G3A Turbine 2-wire or 3-Wire	Dimension "A"	Dimension "B"	Dimension "C"
GSCPS-100-2	3.6 in. (9.1 cm)	2.0 in. (5.1 cm)	2.4 in. (6.1 cm)
GSCPS-100-3	3.6 in. (9.1 cm)	2.0 in. (5.1 cm)	3.0 in. (7.6 cm)
GSCPS-150-2	4.6 in. (11.7 cm)	2.3 in. (5.8 cm)	2.6 in. (6.6 cm)
GSCPS-150-3	4.6 in. (11.7 cm)	2.3 in. (5.8 cm)	3.2 in. (8.1 cm)
GSCPS-200-2	6.1 in. (15.5 cm)	2.9 in. (7.4 cm)	2.9 in. (7.4 cm)
GSCPS-200-3	6.1 in. (15.5 cm)	2.9 in. (7.4 cm)	3.5 in. (8.9 cm)



ACCESSORIES / ELECTRONICS

RT406D0FM†

Rate/Totalizer, with Pulse
Out (Remote)



RT142D0FM

Rate/Totalizer, 4-20 mA,
Pulse, Alarms (Remote)



EB112D0FM†

Batch Controller (Remote)



*This enclosure is not approved for 3A applications. †This display is not approved for 3A applications.