

G2 SERIES HAZARDOUS AREA INTRINSICALLY SAFE



SPECIFICATIONS

Technology:	Turbine				
Line Size:	½ in.	¾ in.	1 in.	1½ in.	2 in.
Tri-Clamp Fitting:	¾ in.	1 in.	1½ in.	2 in.	2½ in.
Accuracy (% of Reading):	Turbine Only		Turbine w/ Computer		
	(05) ½"	± 2.0%	± 1.5%		
	(07) ¾"	± 1.5%	± 1.0%		
	(10) 1"	± 1.5%	± 1.0%		
	(15) 1½"	± 1.0%	± 0.75%		
	(20) 2"	± 1.0%	± 0.75%		
Repeatability:	± 0.1% (PVDF ± 0.3%)				
Material Housing:	316 Stainless Steel, Aluminum, PVDF				
Fitting Type:	NPT or ISO (Female) BSPT (ISO 7 designation is RC)				
	150# ANSI (S10, S15, S20 only)				
	Tri-Clamp (Stainless Steel only) - Fitting size is one size bigger than meter size				
Flow Range:	(05) ½"	1-10 GPM (3.8-38 L/min)			
	(05) ½" PVDF Only	1.2-12 GPM (4.5-45 L/min)			
	(07) ¾"	2-20 GPM (7.6-76 L/min)			
	(10) 1"	5-50 GPM (19-190 L/min)			
	(15) 1½"	10-100 GPM (38-380 L/min)			
	(20) 2"	20-200 GPM (76-760 L/min)			
Pressure Rating:					
Stainless Steel 316 SS	1,500 psi (102 bar)				
Aluminum	300 psi (21 bar)				
PVDF	100 psi (6.9 bar)				
ANSI Flange 316 SS	Flange Rule				
Sanitary Flange 316 SS	Limited by fitting, clamp size, & temperature				
Operating Temperature:					
Turbine without display:	-40°F to 250°F (-40°C to 121°C) -20°F to 180°F (-28°C to 82°C) (PVDF)				
w/ Intrinsically Safe Display:	0°F to +129°F (-18°C to +54°C)				

A full line of FLOMEC® G2 Series Turbine Flow Meters are available in a variety of housing materials. Rugged and dependable, the G2 Series offers:

- Stainless Steel for most water and chemical products
- Aluminum for fuels and petroleum-based products
- PVDF for aggressive chemicals

FEATURES / BENEFITS

- Features highly visible Q9, battery-powered, LCD display; 2-year battery life
- 11 pre-programmed engineering units plus 1 custom option: gallon, litre, imperial gallon, quart, ounce, acre-foot, millilitre, cubic foot, cubic centimetre, cubic metre, barrel
- High accuracy flow meter – view SPECIFICATIONS of each SKU once flow meter options are selected
- Modular design allows for use with output modules, flow sensors, and remote display kits; plug and play *output modules and flow sensors will remove approvals
- Internal parts are simple to replace for easy maintenance
- NPT, ISO 7, #150 ANSI Flange, and Tri-clamp fitting options
- Tri-clamp (not food grade) options available:
 - ¾ inch fitting for ½ inch flow meter
 - 1 inch fitting for ¾ inch flow meter
 - 1½ inch fitting for 1 inch flow meter
 - 2 inch fitting for 1½ inch flow meter
 - 2½ inch fitting for 2 inch flow meter

APPROVALS† / WARRANTY



ISO 22241-2 Annex C, D, E, F, G, H, I,
Diesel Exhaust Fluid (DEF)/
Adblue® standards

†If the flow meter includes any modules (4-20mA and Pulse Out) that introduces external power or add the high temp riser, then all intrinsic safety approvals are voided.



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GREAT PLAINS INDUSTRIES



G2 SERIES

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SPECIFICATIONS CONTINUED

Typical K-Factor:	(05) ½"	2,500 PPG (660 Pulses/L)
	(05) ½"	2,400 PPG (633 Pulses/L) (PVDF)
	(07) ¾"	1,100 PPG (291 Pulses/L)
	(10) 1"	565 PPG (149 Pulses/L)
	(10) 1"	540 PPG (142 Pulses/L) (PVDF)
	(15) 1½"	215 PPG (57 Pulses/L)
	(20) 2"	100 PPG (26 Pulses/L)
Wetted Materials:	Housing:	316 Stainless Steel or Aluminum
	Bearings:	96% Alumina Oxide Ceramic
	Shaft:	Tungsten Carbide
	Rotor:	PVDF
	Rings:	316 Stainless Steel
Wetted Material PVDF:	Housing:	PVDF (15% Carbon Fiber Filled)
	Bearings & Shaft:	98% Alumina Ceramic
	Rotor:	PVDF
	Rings:	Fluorocarbon (Optional PTFE)
Out Frequency:	(05) ½"	42-420 Hz @ 1-10 GPM (3.8-38 L/min) / 45-450 Hz @ 1.2-12 GPM (4.5-45 L/min) (PVDF)
	(07) ¾"	37-370 Hz @ 2-20 GPM (7.6-76 L/min)
	(10) 1"	47-470 Hz @ 5-50 GPM (19-190 L/min) / 45-475 Hz @ 5-50 GPM (19-190 L/min) (PVDF)
	(15) 1½"	36-360 Hz @ 10-100 GPM (38-380 L/min)
	(20) 2"	33-330 Hz @ 20-200 GPM (76-760 L/min)
Calibration Report:	Comes standard with G2 Series flow meters.	
	N.I.S.T. – Certification available.	

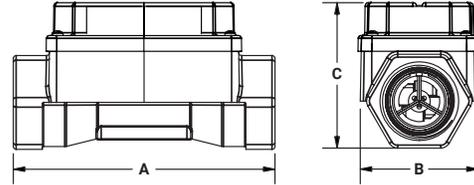
APPLICATIONS (Typical application but not limited to)

- Batching/Blending
- Water Metering
- Plating solutions
- Fuel products
- Metering clean fluids
- Plant process water
- Chemical feed lines
- Harsh chemicals (*sulfuric acid and bleach*)
- DEF (*Diesel Exhaust Fluid*)
- Food and beverage processing (*non 3A applications*)

DIMENSIONS NOTE: 4-20mA module adds 0.9 in. (2.3 cm) to height

Aluminum / Stainless Steel Models

	S05, ½ in.	S07, ¾ in.	S10, 1 in.	S15, 1½ in.	S20, 2 in.
Dimension "A"	4.2 in. (10.7 cm)	4.3 in. (10.9 cm)	4.5 in. (11.4 cm)	5.3 in. (13.5 cm)	6.3 in. (16 cm)
Dimension "B"	2.0 in. (5.1 cm)	2.0 in. (5.1 cm)	2.0 in. (5.1 cm)	2.7 in. (6.9 cm)	3.4 in. (8.6 cm)
Dimension Q9 - "C"	2.1 in. (5.3 cm)	2.3 in. (5.8 cm)	2.6 in. (6.6 cm)	3.3 in. (8.4 cm)	3.8 in. (9.7 cm)
Dimension Blind - "C"	2.3 in. (5.8 cm)	2.5 in. (6.4 cm)	2.8 in. (7.1 cm)	3.5 in. (8.9 cm)	4.0 in. (10.2 cm)



PVDF Models

	P05, ½ in.	P10, 1 in.
Dimension "A"	7.3 in. (18.5 cm)	8.1 in. (20.6 cm)
Dimension "B"	2.1 in. (5.3 cm)	2.8 in. (7.1 cm)
Dimension Q9 - "C"	3.9 in. (9.9 cm)	4.0 in. (10.2 cm)
Dimension Blind - "C"	4.1 in. (10.4 cm)	4.2 in. (10.7 cm)

NOTE: For representation purpose only. Actual product models vary in shape, design, etc.

ANSI Flange and Tri-clamp fitting dimensions not shown. For those dimensions, please refer to product manuals or our website GreatPlainsIndustries.com.

