G2 SERIES
HAZARDOUS AREA INTRINSICALLY SAFE



A full line of **FLOMEC® G2 Series Turbine 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

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:		-40°F to 250°F (-40°C to 121°C)				
Turbine without display:		-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)				

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 meter – view SPECIFICATIONS of each SKU once meter options are selected
- Modular design allows for use with output modules, sensors, and remote display kits; plug and play *output modules and 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 meter
  - 1 inch fitting for ¾ inch meter
  - 1½ inch fitting for 1 inch meter
  - 2 inch fitting for 1½ inch meter
  - 2½ inch fitting for 2 inch meter

APPROVALS† / WARRANTY

CE ATEX NEMA 4 FM APPROVED IP65 2 YR METER WARRANTY

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

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

Wichita · Sydney GREAT PLAINS INDUSTRIES GPI

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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 meters.	
	N.I.S.T. – Certification available.	

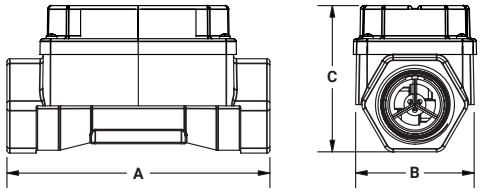
APPLICATIONS (Typical application but not limited to)

- 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)
SS 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)
SS 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)
Aluminum Dimension Q9 - "C"	2.5 in. (6.4 cm)	2.7 in. (6.9 cm)	2.9 in. (7.4 cm)	3.5 in. (8.9 cm)	3.9 in. (9.9 cm)
Aluminum Dimension Blind - "C"	2.7 in. (6.9 cm)	3.0 in. (7.6 cm)	3.1 in. (7.9 cm)	3.7 in. (9.4 cm)	4.1 in. (10.4 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 Sanitary Flange dimensions not shown. For those dimensions, please refer to product manuals or our website GreatPlainsIndustries.com.

