

G2 SERIES NON-HAZARDOUS AREA (SAFE AREA ONLY)



SPECIFICATIONS

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				
Meter Sizes Available:	½"	¾"	1"	1½"	2"
Corresponding Tri-Clamp Fitting:	¾"	1"	1½"	2"	2½"
Housing Material:	316 Stainless Steel, Aluminum, PVDF				
Flow Range:	½" (05)	1 - 10 GPM		(3.8 - 38 L/min)	
	½" (05) PVDF only	1.2 - 12 GPM		(4.5 - 45 L/min)	
	¾" (07)	2 - 20 GPM		(7.6 - 76 L/min)	
	1" (10)	5 - 50 GPM		(19 - 190 L/min)	
	1½" (15)	10 - 100 GPM		(38 - 380 L/min)	
	2" (20)	20 - 200 GPM		(76 - 760 L/min)	
Accuracy (% of Reading):	Turbine Only		Turbine w/ Computer		
	½" (05)	± 2.0%		± 1.5%	
	¾" (07)	± 1.5%		± 1.0%	
	1" (10)	± 1.5%		± 1.0%	
	1½" (15)	± 1.0%		± 0.75%	
	2" (20)	± 1.0%		± 0.75%	
Repeatability:		± 0.1% (PVDF is ± 0.3%)			
Pressure Rating:					
Stainless Steel 316 SS		1,500 psi (102 bar)			
Aluminum		300 psi (21 bar)			
ANSI Flange 316 SS		Flange Rule			
Sanitary Flange 316 SS		Limited by fitting, clamp size, & temperature			
PVDF		100 psi (6.9 bar)			
Operating Temperature Range:		-40°F to 250°F (-40°C to 121°C)			
		(PVDF) -20°F to 180°F (-28°C to 82°C)			
with Display:		0°F to 140°F (-18°C to 60°C)*			
with Hi-Temp. Riser (H9):		0°F to 185°F (-18°C to 85°C)*			

*See Ambient and Fluid Temperature Limits graph on the operating temperature range. Shown on next page.

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 non-volatile products
- Aluminum for non-volatile petroleum-based products
- PVDF for aggressive chemicals

FEATURES / BENEFITS

- Features highly visible Q9, battery-powered, LCD display; 2-year battery life
- Add the 4-20mA / Scaled Pulse Module to your turbine meter display electronics to provide an industry-standard analog signal for connection to a variety of chart recorders, display equipment, and process control equipment. See Optional Output Module details.
- 11 preprogrammed engineering units plus 1 custom option: gallon, liter, imperial gallon, quart, ounce, acre-foot, milliliter, cubic foot, cubic centimeter, cubic meter, 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
- 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



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SPECIFICATIONS CONTINUED

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

DIMENSIONS NOTE: Q9 Display adds 0.72 in. (18 mm) to height

Stainless Steel (SS) and SS High Pressure Models

	S05 & H05 ½ in.	S07 & H07 ¾ in.	S10 & H10 1 in.	S15 & H15 1½ in.	S20 & H20 2 in.
A = Height	1.4 in. (35.6 mm)	1.6 in. (40.6 mm)	1.9 in. (48.3 mm)	2.6 in. (66.0 mm)	3.1 in. (78.7 mm)
B = Width	2.0 in. (50.8 mm)	2.0 in. (50.8 mm)	2.0 in. (50.8 mm)	2.7 in. (68.6 mm)	3.4 in. (86.4 mm)
C = Length	4.2 in. (106.7 mm)	4.3 in. (109.2 mm)	4.5 in. (114.3 mm)	5.3 in. (134.6 mm)	6.3 in. (160.0 mm)

Aluminum Models

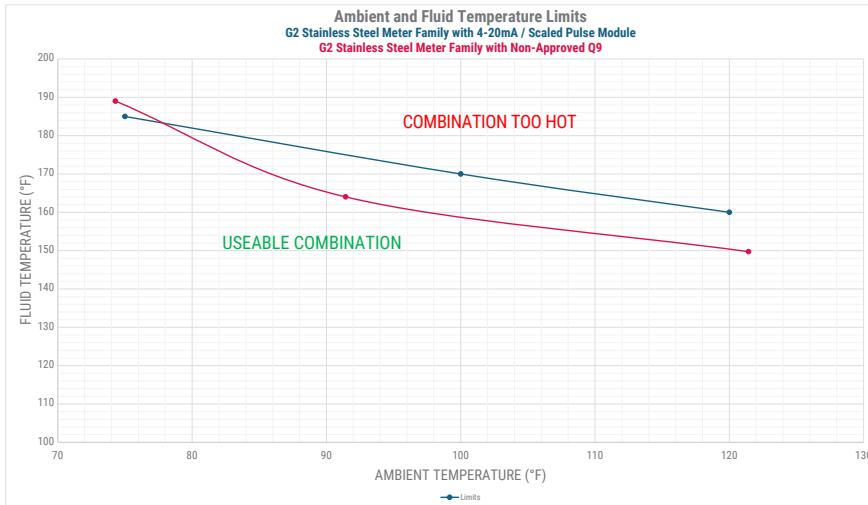
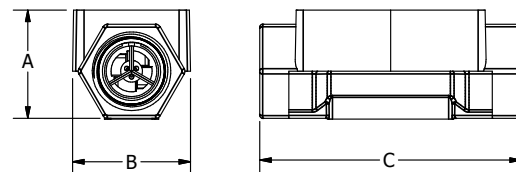
	A05, ½ in.	A07, ¾ in.	A10, 1 in.	A15, 1½ in.	A20, 2 in.
A = Height	1.8 in. (45.7 mm)	2.0 in. (50.8 mm)	2.2 in. (55.9 mm)	2.8 in. (71.1 mm)	3.2 in. (81.3 mm)
B = Width	2.0 in. (50.8 mm)	2.0 in. (50.8 mm)	2.0 in. (50.8 mm)	2.7 in. (68.6 mm)	3.3 in. (83.8 mm)
C = Length	4.2 in. (106.7 mm)	4.3 in. (109.2 mm)	4.5 in. (114.3 mm)	5.3 in. (134.6 mm)	6.3 in. (160.0 mm)

PVDF Models

	P05, ½ in.	P10, 1 in.
A = Height	3.2 in. (81.3 mm)	3.3 in. (83.8 mm)
B = Width	2.1 in. (53.3 mm)	2.8 in. (71.1 mm)
C = Length	7.3 in. (185.4 mm)	8.1 in. (205.7 mm)

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

ANSI Flange and Sanitary Flange dimensions not shown.



APPLICATIONS

- Batching
- Blending
- Water
- Industrial fluids
- Plating solutions
- Ammonium
- Food and beverage processing
- Monitoring clean fluids
- Plant process water
- Chemical feed lines
- Harsh chemicals (sulfuric acid and bleach)

ACCESSORIES

113275-10 FM Approved* Remote Kit	113435-10 Conditioned Signal Module	125100-10 4-20 mA Module

125260-02 90° Display Adapter Kit	125527-01 Q9 Hi-Temp Riser Kit

*Does not make Non-FM Approved meters FM Approved



PRODUCT CONFIGURATION

1 PRODUCT IDENTIFIER:

G2 = Industrial Grade Flowmeters

2 TURBINE MATERIAL:

S = Stainless Steel

A = Aluminum

P = PVDF (1/2 in. y 1 in. only)

X = Electronics only (For metal meters)

Z = Electronics only (For plastic meters)

3 TURBINE SIZE:

05 = 1/2 in.

15 = 1-1/2 in.

07 = 3/4 in.

20 = 2 in.

10 = 1 in.

4 FITTING TYPE:

N = NPT (Female)

I = ISO (Female) BSPT (ISO 7 Designation is RC)

F = 150# ANSI Flange (Available on S10, S15 & S20 only)

T = Tri-Clamp Fitting (Available on S05, S07, S10, S15 & S20 only)

X = No Turbine Body

5 ELECTRONIC CHOICE:

Computer Display, Meter Mounted

Q9 = Q9 2-Button Computer

Q1 = Q9 2-Button Computer, Vertical Mount (90° Adapter)

Retrofit Computer Kit (Display Only)

R9 = Q9 2-Button Computer Retrofit Kit (Replaces 09 Display)

No Electronics - Turbine Only

XX = No Electronics - Turbine Only

6 CALIBRATION OF COMPUTER / DISPLAY:

GM = Gallons Per Minute (Gallons Default)

LM = Liters Per Minute (Litres Default)

GD = Gallons Per Minute (Gallons Default) with NIST Certificate

LD = Liters Per Minute (Litres Default) with NIST Certificate

XX = No Calibration

7 PACKAGING:

A = 05 Thru 10 Turbines, Turbine Only or w/Q9 Electronics
05 Thru 20 Electronics Only (Q9 Replacement Kit or R9 Retrofit Kit)

B = 15 & 20 Turbines, Turbine Only or w/Q9 Electronics
05 Thru 10 Turbines w/Q1 Electronics

C = 15 Thru 20 Turbine w/Q1 Electronics

D = 10 Turbines with ANSI Flange Turbine Only or w/Q9, Q1 Electronics

E = 15 & 20 Turbines with ANSI Flange Turbine Only or w/Q9, Q1 Electronics

APPLICATIONS

- Batching
- Blending
- Water
- Industrial fluids
- Plating solutions
- Ammonium
- Food and beverage processing

- Fuel Products
- Monitoring clean fluids
- Plant process water
- Chemical feed lines
- Harsh chemicals (sulfuric acid and bleach)
- DEF (Diesel Exhaust Fluid)

1 2 3 4 5 6 7

---->>> G2 S 15 N Q9 GM B

