

: 03 5956 8685 Mob: 0488 029 256 www.besflowmeters.com.au Web:

- Meter is designed for thin fluids < 100 cP
- · Modular design allows for use with Output Modules, Sensors and Remote Display Kits
- 2 Totals (Batch Total = Resettable, Total = Non-Resettable); Rate of Flow, Factory calibrated in gallons or litres. Field calibratable. Includes non-volatile totals.
- · High accuracy meter
- · Internal parts are simple to replace for easy maintenance
- · AAA Alkaline battery life: 2 years
- · High temperature local display option for Stainless Steel meters only (185° F/85° C)

G2 SERIES SAFE AREA ONLY

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

PRODUCT CONFIGURATION

1 PRODUCT IDENTIFIER:

G2 = Industrial Grade Flowmeters

2 TURBINE MATERIAL:

- S = Stainless Steel
- $\mathbf{A} = Aluminum$
- **P** = PVDF (1/2 in. & 1 in. only)
- **H** = High Pressure Stainless Steel
- **X** = Electronics only (For metal meters)
- **Z** = Electronics only (For plastic meters)

3 TURBINE SIZE:

 $05 = \frac{1}{2}$ in. 15 = $1-\frac{1}{2}$ in. **07** = ¾ 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

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)

5 ELECTRONIC CHOICE:

Computer Display, Meter Mounted

Q9 = Q9 2-Button Computer

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

H9 = Q9 2-Button Computer with High Temp Riser (185° F/85° C) [Available on stainless steel bodies only]

Computer Display & Module, Meter Mounted

P9 = Q9 2-Button Computer w/Pulse Out Module, includes External Power and 10 ft. of Cable

42 = Q9 2-Button Computer w/4-20mA Module and 10 ft. of Cable Module, Meter Mounted (No Display)

PO = Pulse Out (Unscaled) Conditioned Signal Module w/Cable QSI Options, Meter Mounted (No Display)

81 = QSI Version 1 (Scaled Pulse, RS485 [Modbus or BACnet], BTU Calculator, Bluetooth®)

82 = QSI Version 2 (Scaled Pulse, BTU Calculator, Bluetooth®) 83 = QSI Version 3 (Scaled Pulse, 4-20 mA, Bluetooth®)

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:

- V = 05 Thru 10 Turbines, Turbine Only or w/Q9 Electronics 05 Thru 20 Electronics Only (Q9 Replacement Kit or R9 Retrofit Kit)
- W = 15 & 20 Turbines, Turbine Only or w/Q9 Electronics 05 Thru 10 Turbines w/Q1 Electronics
- X = 15 Thru 20 Turbine w/Q1 Electronics 05 Thru 20 Turbines w/H9, P9, 42, PO Electronics

05 Thru 20 Electronics Only (H9, P9 or 42 Electronics)

Y = 10 Turbines with ANSI Flange Turbine Only or w/Q9, Q1, H9, P9, 42, PO Electronics

Z = 15 & 20 Turbines with ANSI Flange Turbine Only or w/Q9, Q1, H9.

P9, 42, PO Electronics

10 Turbines with ANSI Flange w/81, 82, & 83 Electronics

F = 05 Thru 20 Turbines w/81, 82, & 83 Electronics

G = 15 & 20 Turbines with ANSI Flange w/81, 82, & 83 Electronics















1 2 3 4 5 --->>> G2 S 15 N Q9 GM W

SPECIFICATIONS

OT LOTT TOTAL							
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				ne size		
	00						
Meter Sizes A		1/2"	3/4"	1"	1-1/2"	2"	
Correspondin Tri-Clamp Fitti		3/4"	1"	1-1/2"	2"	2-1/2"	
Housing Mate	rial:	316 Sta	inless Ste	el, Alumi	num, PVI)F	
Flow Range:	1/2" (05)	1 - 10 G	PM	(3.8 - 38	(3.8 - 38 L/min)		
	1/2" (05) PVDF only	1.2 - 12 GPM		(4.5 - 45 L/min)			
	3/4" (07)	2 - 20 G	PM	(7.6 - 76 L/min)			
	1" (10)	5 - 50 G	PM	(19 - 19	00 L/min)		
1-1/2" (15)		10 - 100 GPM (38 - 380 L/min)		0 L/min)			
	2" (20)	20 - 200 GPM		(76 - 760 L/min)			
Accuracy (% o	f Reading):	Turbine	Only	/ Turbine w/Computer		uter	
1/2" (05)		± 2.0% ± 1.5%					
	3/4" (07)	± 1.5%		± 1.0%			
	1" (10)	± 1.5%		± 1.0%			
1-1/2" (15)		± 1.0%		± 0.75%			
	2" (20)	± 1.0%		± 0.75%			
Repeatability:		± 0.1% (PVDF is ± 0.3%)					
Pressure Ratio	ng:						
Stainless Steel 316 SS		1,500 psi (102 bar)					
Aluminum		300 psi (21 bar)					
High Pressure 316 SS		3000 psi (207 bar)					
ANSI Flange 316 SS		Flange Rule					
Sanitary Flange 316 SS		Limited by fitting, clamp size, & temperature					
PVDF		100 psi (6.9 bar)					

DIMENSIONS	Stainless Steel (SS) and SS High Pressure Models
DIMENSIONS	NOTE: Q9 Display adds 0.72 in. (18 mm) to height

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

Aluminum Models

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

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 Temp. Chart in Q9 Non-Agency Manual		
Typical	1/2" (05)	2,500 PPG (660 Pulses/L)		
K-Factor:	3/4" (07)	1,100 PPG (291 Pulses/L)		
	1" (10)	565 PPG (149 Pulses/L)		
	1-1/2" (15)	215 PPG (57 Pulses/L)		
	2" (20)	100 PPG (26 Pulses/L)		
Wetted	Housing:	316 Stainless Steel or Aluminum		
Materials:	Bearings:	96% Alumina Oxide Ceramic		
	Shaft:	Tungsten Carbide		
	Rotor:	PVDF		
	Rings:	316 Stainless Steel		
Wetted	Housing:	PVDF (15% Carbon Fiber Filled)		
Materials PVDF:	Bearings & Shaft:	98% Alumina Ceramic		
	Rotor:	PVDF		
	Rings:	Fluorocarbon (Optional PTFE)		
Frequency 1/2" (05) Range:		42-420 Hz @ 1-10 GPM (3.8-38 L/min) / 45-450 Hz @ 1.2-12 GPM (4.5-45 L/min) (PVDF)		
	3/4" (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)		
	1-1/2" (15)	36-360 Hz @ 10-100 GPM (38-380 L/min)		
	2" (20)	33-330 Hz @ 20-200 GPM (76-760 L/min)		
Calibration	Comes standard with G2 Series meters.			

ACCESSORIES

Report:

Part No.	Description
113435-10	Conditioned Signal Module
125060-10	Pulse Out, External Power, Scaled Pulse Module
125100-10	4-20 mA Module
125260-02	90° Display Adaptor Kit

Part No.	Description
113275-10	FM Approved* Remote Kit
125206-2	1/2 in. Teflon O-Ring for PVDF Meter (2)
125206-1	1 in. Teflon O-Ring for PVDF Meter (2)
125527-01	Q9 Hi-Temp Riser Kit

^{*}Does not make Non-FM Approved meters FM Approved

APPROVALS



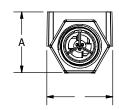
N.I.S.T. - Certification available.

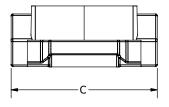


IP65

PVDF Models

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





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 FLOMECmeters.com.



Wichita / Sydney

GREAT PLAINS INDUSTRIES