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

### APPLICATIONS

- Batching
- Blending
- Water
- Industrial fluids
- Plating solutions
- Ammonium

### FEATURES / BENEFITS

- 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)

### PRODUCT CONFIGURATION

1. **PRODUCT IDENTIFIER:**
   - G2 = Industrial Grade Flowmeters

2. **TURBINE MATERIAL:**
   - S = Stainless Steel
   - 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 = ½ in.
   - 07 = ¾ in.
   - 10 = 1 in.
   - 15 = 1-½ in.
   - 20 = 2 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)
     - 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)
     - P0 = 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

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

7. **PACKAGING:**
   - V = 05 Thru 10 Turbines, Turbine Only or w/Q9 Electronics
   - W = 15 & 20 Turbines, Turbine Only or w/Q9 Electronics
   - X = 15 Thru 20 Turbine w/Q1 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
   - F = 05 Thru 20 Turbines w/81, 82, & 83 Electronics
   - G = 15 & 20 Turbines with ANSI Flange w/81, 82, & 83 Electronics
### 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:** 1/2" 3/4" 1" 1-1/2" 2" 3/4" (05) 1-10 GPM (3.8 - 38 L/min)

1/2" (05) PVDF only 1.2 - 12 GPM (4.5 - 45 L/min)

1/2" (07) 2 - 20 GPM (7.6 - 76 L/min)

1" (10) 5 - 50 GPM (19 - 190 L/min)

1-1/2" (15) 10 - 100 GPM (38 - 380 L/min)

2" (20) 20 - 200 GPM (76 - 760 L/min)

**Flow Range:**

1/2" (05) 1 - 10 GPM (3.8 - 38 L/min)

1/2" (05) PVDF only 1.2 - 12 GPM (4.5 - 45 L/min)

1/2" (07) 2 - 20 GPM (7.6 - 76 L/min)

1" (10) 5 - 50 GPM (19 - 190 L/min)

1-1/2" (15) 10 - 100 GPM (38 - 380 L/min)

2" (20) 20 - 200 GPM (76 - 760 L/min)

**Accuracy (% of Reading):**

1/2" (05) ± 2.0% ± 1.5%

1/2" (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 Rating:**

Stainless Steel 316 SS 1,500 psi (102 bar)

Aluminum 300 psi (21 bar)

High Pressure 316 SS 3,000 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)

**Wetted Materials:**

PVDF Models:

- Housing: 316 Stainless Steel or Aluminum
- Bearings: 98% Alumina Oxide Ceramic
- Shaft: Tungsten Carbide
- Rotor: PVDF
- Rings: 316 Stainless Steel

Aluminum Models:

- Housing: PVDF (15% Carbon Fiber Filled)
- Bearings & Shaft: 98% Alumina Ceramic
- Rotor: PVDF
- Rings: Fluorocarbon (Optional PTFE)

**Frequency Range:**

1/2" (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)

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 Report:**

Comes standard with G2 Series meters.

N.I.S.T. – Certification available.

### ACCESSORIES

**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)
12527-01 | Q9 Hi-Temp Riser Kit

*Does not make Non-FM Approved meters FM Approved.

### DIMENSIONS

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

**Stainless Steel (SS) and SS High Pressure Models**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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| 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)
| 12527-01 | Q9 Hi-Temp Riser Kit

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125060-10 | Pulse Out, External Power, Scaled Pulse Module
125100-10 | 4-20 mA Module
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