# FLOMEC®

## G SERIES SANITARY CLAMP HIGH TEMPERATURE (SIP) (PRECISION TURBINE METERS)

The G Series High Precision Meter is the most accurate of all the FLOMEC® Turbine Meters:

### FEATURES / BENEFITS

- Meter includes a traditional design
- Available in a variety of sizes
- Low Profile option available

## APPLICATIONS

- Fuel
- Batching
- Food & Beverage
- Petro Chemicals
- Pharmaceuticals
- Thin Viscosity Fluids Under 100 Centipoise
- Process Control
- Chemical Feed Lines
- Irrigation
- High Water Volume Mixing
- High Precision / High Pressure

## APPROVALS

CIP  CE  SIP

## PRODUCT CONFIGURATION

### PRODUCT IDENTIFIER  [1]

**G** = G Series Precision Turbine Meter

### FITTING TYPE  [2]

**SC** = Sanitary Clamp

### SHAFT / SLEEVE BEARING / THRUST BEARING  [3]

**PS** = Stainless Steel / PEEK / PEEK

### TURBINE SIZE & FLOWRATE  [4]

**-100** = 1 in. Turbine, 1-1/2" Clamp
**-100L** = 1 in. Turbine, 1-1/2" Clamp, Low Profile Adapter
**-150** = 1-1/2 in. Turbine, 1-1/2" Clamp
**-150L** = 1-1/2 in. Turbine, 1-1/2" Clamp, Low Profile Adapter
**-200** = 2 in. Turbine, 2" Clamp
**-200L** = 2 in. Turbine, 2" Clamp, Low Profile Adapter

### SENSOR CHOICE  [5]

**1** = Low Drag Standard Sensor with 12 inch Lead Wires
**2** = Standard Sensor with 12 inch Lead Wires
**X** = No Sensor - Turbine Body Only

### ELECTRONIC CHOICE (LOCAL)  [6]

*Turbine Mounted*
**-5** = GG510 - Standard Display
**-6** = GX510 - 4-20 mA Transmitter with Display
**-7** = GA510 - 4-20 mA Transmitter
**-8** = SC510 - Scaled Pulse Output
**-X** = No Electronics - Turbine Body Only

[1] [2] [3] [4] [5] [6]
--->>>>  G + SC + PS + -150 + 2 + -6 = SAMPLE

**GSCPS & "L" Option Meters carry a**

**Sanitary Rating.**
**Flowmeters for milk and milk products, Number 28-04.**

This meter meets the strict 3-A Sanitary Standards using the new "Third Party Verification" (TPV) program. Our methods of design, construction and traceability of components have been reviewed and approved.

The internals of this meter are machined or polished to meet 3-A self-draining and cleaning requirements (Ra 32). The GSCPS Meter meets Clean in Place (CIP), Steam in Place (SIP) and Clean Out of Place (COP) requirements.

## SPECIFICATIONS

| Design Type: | Turbine | |
|---|---|---|
| Fitting Type: | Sanitary Clamp | |
| Housing Material: | 316 Stainless Steel | |
| Meter Sizes Available: | | |
| For GSCPS | 1"    1-1/2"    2" | |
| Meter ID: | | |
| | 1" --> 1-1/2" Fitting | |
| | 1-1/2" --> 1-1/2" Fitting | |
| | 2" --> 2" Fitting | |
| Flow Range: | 1" (100) | 6.7 - 67 GPM | (25.2 - 252 LPM) |
| | 1-1/2"(150) | 17.7 - 177 GPM | (67 - 670 LPM) |
| | 2" (200) | 33 - 330 GPM | (125 - 1250 LPM) |
| Accuracy (Linearity): | ± 0.5% | |
| Repeatability: | ± 0.1% | |
| Pressure Rating: | Limited by fitting size, clamp size and temperature. | |
| Operating Temperature Range: | | |
| For GSCPS: | -100° F to + 225° F (-74° C to +107° C) | |
| For SIP (up to 1 hour): | +285° F (+140° C) | |
| Typical K-Factor: | 1" (100) | 896 PPG / 237 PPL |
| | 1-1/2"(150) | 340 PPG / 90 PPL |
| | 2" (200) | 181 PPG / 48 PPL |

| Wetted Materials: | Housing: | 316 Stainless Steel |
|---|---|---|
| | Bushings & Bearings: | PEEK |
| | Shaft: | 316 Stainless Steel |
| | Rotor: | CD4MCu Stainless Steel |
| | Rotor Supports: | 316 Stainless Steel |
| | Retaining Rings: | 300 Series Stainless Steel |
| Recommended Strainer Size: | | |
| | 1 inch | 40 mesh |
| | 1-1/2 inch | 18 mesh |
| | 2 inch | 14 mesh |
| Frequency Output: | 1" (100) | 100 - 1000 Hz |
| | 1-1/2"(150) | 100 - 1000 Hz |
| | 2" (200) | 100 - 1000 Hz |
| Calibration Report: | Comes standard with G Series meters. | |
| | N.I.S.T. – Certification available. | |

## ACCESSORIES / ELECTRONICS

| Part No. | Description |
|---|---|
| 80001100 | X-Proof Enclosure |
| 80001101 | Weather proof enclosure - Zinc |
| 80001102 | X-Proof enclosure with Terminal Strip |
| 80001105 | Weather proof Enclosure - SS |
| GA500 | 4-20 mA Transmitter - Remote |
| GA510 | 4-20 mA Transmitter - Local |
| GG500-M | Display with pulse out - Remote |
| GG510-M | Display with pulse out - Local |
| GX500-M | Display with 4-20 mA Transmitter - Remote |
| GX510-M | Display with 4-20 mA Transmitter - Local |
| SC500 | Scaled Pulse Unit - Remote |
| SC510 | Scaled Pulse Unit - Local |
| E112 | Explosion-proof Display - Local |
| F Series (F116/F118/F126/F130) | Remote Panel Mount Electronics |
| N410 | Deluxe Batch Controller |

## DIMENSIONS

| Meter Size | Length " (mm) | Height " (mm) |
|---|---|---|
| 1/2" | 2.75 (70) | 1.63 (41) |
| 3/4" | 3.25 (82) | 1.84 (47) |
| 1" | 3.56 (90) | 1.84 (47) |
| 1-1/2" | 4.59 (116) | 2.11 (53) |
| 2" | 6.06 (154) | 2.39 (61) |

## GSCPS STANDARD



| Meter Size | Length " (mm) | Height " (mm) |
|---|---|---|
| 1/2" | 2.75 (70) | 0.79 (20) |
| 3/4" | 3.25 (82) | 1.03 (26) |
| 1" | 3.56 (90) | 1.03 (26) |
| 1-1/2" | 4.59 (116) | 1.21 (31) |
| 2" | 6.06 (154) | 1.45 (37) |
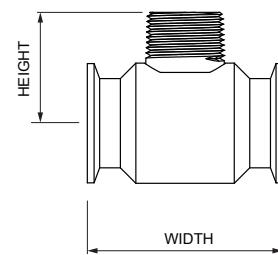
## GSCPS LOW PROFILE
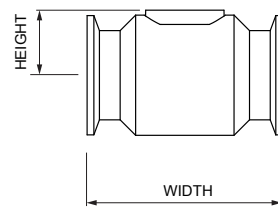


**Service & Warranty:** For technical assistance, warranty replacement or repair contact your FLOMEC® or GPI® distributor: In North or South America: **888-996-3837 / GPI.net**
Outside North or South America: **+61 2 9540 4433 / flomec.com.au**

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