

G SERIES THREADED (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
- BSPP, ISO and NPT fitting options
- High Temperature model 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

B.E.S.
FLOWMETERS

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PRODUCT CONFIGURATION

PRODUCT IDENTIFIER 1

G = G Series Precision Turbine Meter

FITTING TYPE 2

N = NPT (Male)
I = ISO 7-1 BSPT Taper (Male)
B = BSPP (Male)

SHAFT / SLEEVE BEARING / THRUST BEARING 3

T- = Tungsten Carbide / Tungsten Carbide / Tungsten Carbide
P- = Stainless Steel / PTFE / Stainless Steel
(No High Temp available)

TURBINE SIZE & FLOWRATE 4

-050S* = 1/2" Low Flow - Turbine Body Only*
-051S = 1/2" Standard
-051H** = 1/2" High Temp - Turbine Body Only*
-075S = 3/4" Standard
-075H** = 3/4" High Temp - Turbine Body Only*
-075E = 3/4" Ext-Range
-75EH** = 3/4" Ext-Range High Temp - Turbine Body Only*
-100S = 1" Standard
-100H** = 1" High Temp - Turbine Body Only*
-150S = 1-1/2" Standard
-150H** = 1-1/2" High Temp - Turbine Body Only*
-200S = 2" Standard
-200H** = 2" High Temp - Turbine Body Only*

*Call GPI for Sensor & Electronics

*Only Available for GNP, GIP and GBP

**Only Available for GNT, GIT and GBT

SENSOR CHOICE 5

X = No Sensor - Turbine Body Only

ELECTRONIC CHOICE (LOCAL) 6

Turbine Mounted

-X = No Electronics - Turbine Body Only

1 2 3 4 5 6
--->>> G I T- -075S X -X



SPECIFICATIONS

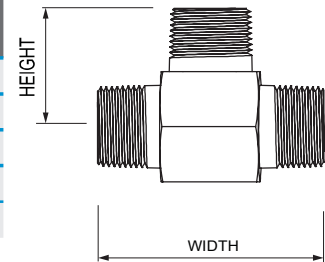
Design Type:	Turbine		
Fitting Type:	NPT (Male)		
	Taper (Male) ISO 7-1 BSPT		
	BSPP (Male) ISO 228-1 designation G		
Housing Material:	316 Stainless Steel		
Meter Sizes Available:			
For GNT, GBT & GIT	1/2" 3/4" 1" 1-1/2" 2"		
For GNT, GBT & GIT High Temp	1/2" 3/4" 1" 1-1/2" 2"		
For GNP, GBP & GIP	1/2" 3/4" 1" 1-1/2" 2"		
Flow Range:	1/2" (050)*	0.6 - 6.0 GPM	(2.2 - 22 L/min)
	1/2" (051)	0.8 - 6.0 GPM	(3.0 - 22 L/min)
	3/4" (075)	1.6 - 16 GPM	(6.0 - 60 L/min)
	3/4" (075E)	2.3 - 23 GPM	(8.7 - 87 L/min)
	1" (100)	6.7 - 67 GPM	(25 - 252 L/min)
	1-1/2"(150)	17.7 - 177 GPM	(67 - 670 L/min)
	2" (200)	33 - 330 GPM	(125 - 1250 L/min)
Accuracy (Linearity):	± 0.5%		
Repeatability:	± 0.1%		
Pressure Rating:	1/2" to 2" - 5,000 psi (340 bar) 3" - 2,500 psi (170 bar)		
Operating Temperature Range:			
For GBT, GIT, GNT Tungsten Carbide:	-100° F to +225° F (-74° C to +107° C)		
For GBT, GIT, GNT High Temperature:	-450° F to +800° F (-268° C to +426° C)		
For GBP, GIP, GNP	-100° F to +185° F (-74° C to +85° C)		
Typical K-Factor:	1/2" (050)	10,000 PPG (2642 Pulses/L)	
K-Factor:	1/2" (051) requires RF Pickup	10,000 PPG (2642 Pulses/L)	
	3/4" (075)	3,750 PPG (991 Pulses/L)	
	3/4" (075E)	2,608 PPG (689 Pulses/L)	
	1" (100)	896 PPG (237 Pulses/L)	
	1-1/2"(150)	340 PPG (90 Pulses/L)	
	2" (200)	181 PPG (48 Pulses/L)	

*GSCP-050 requires RF Pickup

Wetted Materials:	Housing:	316 Stainless Steel
	Sleeve Bearings:	GBT, GIT, GNT - Tungsten Carbide GBP, GIP, GNP - PTFE
	Thrust Bearing:	GBT, GIT, GNT - Tungsten Carbide GBP, GIP, GNP - 440C Stainless Steel
	Shaft:	GBT, GIT, GNT - Tungsten Carbide GBP, GIP, GNP - 316 Stainless Steel
	Rotor:	CD4MCu Stainless Steel
	Rotor Supports:	316 Stainless Steel
	Retaining Rings:	300 Series Stainless Steel
Recommended Strainer Size:		
	1/2 inch	40 mesh (420 µm)
	3/4 inch	40 mesh (420 µm)
	1 inch	40 mesh (420 µm)
	1-1/2 inch	18 mesh (1000 µm)
	2 inch	14 mesh (1410 µm)
Frequency Output:	1/2" (050)	125 - 1000 Hz
	1/2" (051)	125 - 1000 Hz
	3/4" (075)	100 - 1000 Hz
	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.	

DIMENSIONS

Meter Size	Length " (mm)	Height " (mm)
1/2"	2.75 (70)	1.68 (43)
3/4"	3.25 (82)	1.75 (44)
1"	3.56 (90)	1.87 (47)
1-1/2"	4.59 (116)	2.12 (54)
2"	6.06 (154)	2.31 (59)



ACCESSORIES / ELECTRONICS

Part No.	Description
80001101	Weather proof enclosure - Zinc
80001105	Weather proof enclosure - SS
F Series (F018/F127/F130)	Remote Electronics

Part No.	Description
145506-01	Kit, Adapter, G Series-QSI1-Q09 Display
145506-02	Kit, Adapter, G Series-QSI2-Q09 Display
145506-03	Kit, Adapter, G Series-QSI3-Q09 Display
145506-04	Kit, Adapter, G Series-QSI1-No Display
145506-05	Kit, Adapter, G Series-QSI2-No Display
145506-06	Kit, Adapter, G Series-QSI3-No Display

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