

### Model GFT & GFP

150# RF ANSI Flange Fitting



GFT shown here  
with Local Display and  
Mag Pick-Up



For complete part number, see  
"Meter Number Reference" for this section.

**ACCURACY:  $\pm 0.5\%$**

#### Select Your Meter Size:

3/4 inch      1-1/2 inch      3 inch  
1 inch      2 inch



#### For Your Special Application Needs:

**Model GFP**  
For Chemicals

(These models not available in 3 inch)

**Model GFT HT**  
For High Temperatures



#### Sensor:

- Standard Pickup (3/4 to 3 inch turbines)

#### Electronics Options:

- GG510 (Display with Pulse Output)
- GX510 (Display with 4-20 mA Output)
- GA510 (4-20 mA Output)
- SC510 (Scaled Pulse Output)

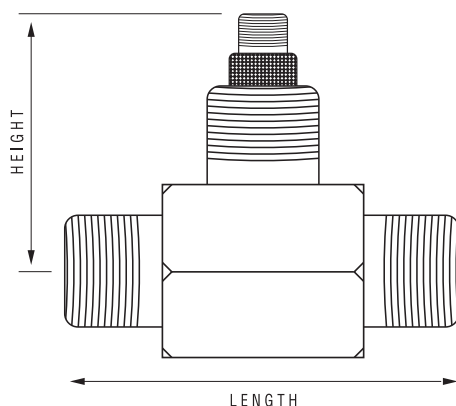
### SPECIFICATIONS

Design Type:		Turbine				
Housing Material:		316 Stainless Steel				
Meter Sizes Available:						
For GFT:		3/4"	1"	1-1/2"	2"	3"
For GFP:		3/4"	1"	1-1/2"	2"	—
For High Temperature:		3/4"	1"	1-1/2"	2"	—
Flow Range:	3/4" (075)	1.6 - 16 GPM		(6.0 - 60 LPM)		
	3/4" (075E)	2.3 - 23 GPM		(8.7 - 87 LPM)		
	1" (100)	6.7 - 67 GPM		(25.2 - 252 LPM)		
	1-1/2" (150)	17.7 - 177 GPM		(67.0 - 670 LPM)		
	2" (200)	33 - 330 GPM		(125.0 - 1250 LPM)		
	3" (300)	60 - 600 GPM		(227.1 - 2271 LPM)		
Accuracy (Linearity):		± 0.5%				
Repeatability:		± 0.1%				
Pressure Rating:		Flange Rule				
Operating Temperature Range:						
For SS/PTFE:		-100° F to +185° F (-74° C to +85° C)				
For Tungsten Carbide:		-100° F to +225° F (-74° C to +107° C)				
For High Temperature:		-450° F to +800° F (-268° C to +426° C)				
Typical K-Factor:	3/4" (075)	3,750 PPG / 991 PPL				
	PPG (PPL) 3/4" (075E)	2,608 PPG / 689 PPL				
	1" (100)	896 PPG / 237 PPL				
	1-1/2" (150)	340 PPG / 90 PPL				
	2" (200)	181 PPG / 48 PPL				
	3" (300)	50 PPG / 13 PPL				
Wetted Materials (GFT):						
Housing:		316 Stainless Steel				
Sleeve Bearings:		Tungsten Carbide				
Thrust Bearing:		Tungsten Carbide				
Shaft:		Tungsten Carbide				
Rotor:		CD4MCu Stainless Steel				
Rotor Supports:		316 Stainless Steel				
Retaining Rings:		300 Series Stainless Steel				
Wetted Materials (GFP):						
Housing:		316 Stainless Steel				
Sleeve Bearings:		PTFE				
Thrust Bearing:		440C Stainless Steel				
Shaft:		316 Stainless Steel				
Rotor:		CD4MCu Stainless Steel				
Rotor Supports:		316 Stainless Steel				
Retaining Rings:		300 Series Stainless Steel				
Recommended Strainer Size:						
	3/4"	40 mesh				
	1"	40 mesh				
	1-1/2"	18 mesh				
	2"	14 mesh				
	3"	14 mesh				
Frequency Output:	3/4" (075)	100 - 1000 Hz				
	3/4" (075E)	100 - 1000 Hz				
	1" (100)	100 - 1000 Hz				
	1-1/2" (150)	100 - 1000 Hz				
	2" (200)	100 - 1000 Hz				
	3" (300)	50 - 500 Hz				
Calibration Report		Comes standard with G Series meters. N.I.S.T. – Certification available.				

### APPROVALS



\* Requires High Temp Pickup.

**G Series Precision Meters**

Size	NPT		Sanitary Clamp		Flanged*	
	Length inches (mm)	Height inches (mm)	Length inches (mm)	Height inches (mm)	Length inches (mm)	Height inches (mm)
1/2 in.	2.75 (70)	2.56 (65)	2.75 (70)	2.56 (65)	—	—
3/4 in.	3.25 (82)	2.62 (66)	3.25 (82)	2.62 (66)	5.50 (140)	2.00 (51)
1 in.	3.56 (90)	2.75 (70)	3.56 (90)	2.75 (70)	5.50 (140)	2.12 (54)
1-1/2 in.	4.59 (116)	3.00 (76)	4.59 (116)	3.00 (76)	6.00 (152)	2.50 (63)
2 in.	6.06 (154)	3.25 (82)	6.06 (154)	3.25 (82)	6.50 (165)	3.00 (76)
3 in.	10.00 (254)	3.50 (89)	—	—	10.00 (254)	3.75 (95)

\* Height on flange meters, measures from center line to top of flange.

## Product Identifier

G = G Series Precision Turbine Meter

USE THIS AS A GUIDE – SIZES VARY BY FITTING TYPE.  
(Does not apply to model GSCPS - 3A Meters)*See Reference Section for Meter Dimensions.*

## Fitting Type

- N** = NPT (Male)
- I** = ISO 7-1 BSPT Taper (Male)
- B** = BSPP (Male)
- F** = Flanged
- SC** = Sanitary Clamp

## Shaft / Sleeve Bearing / Thrust Bearing

- T-** = Tungsten Carbide / Tungsten Carbide / Tungsten Carbide
- P-** = Stainless Steel / PTFE / Stainless Steel

## Turbine Size &amp; Flowrate

- 050S** = 1/2 in. (0.6 - 6 GPM) Low Flow - Turbine Body Only♦
- 051S** = 1/2 in. (0.8 - 6 GPM) Standard - Uses Low Drag Standard Sensor 1
- 051H** = 1/2 in. (0.8 - 6 GPM) High Temp - Turbine Body Only♦
- 075S** = 3/4 in. (1.6 - 16 GPM) Standard - Uses Standard Sensor 2
- 075H** = 3/4 in. (1.6 - 16 GPM) High Temp - Turbine Body Only♦
- 075E** = 3/4 in. (2.32 - 23 GPM) Ext-Range - Uses Standard Sensor 2
- 75EH** = 3/4 in. (2.32 - 23 GPM) Ext-Range High Temp - Turbine Body Only♦
- 100S** = 1 in. (6.7 - 67 GPM) Standard - Uses Standard Sensor 2
- 100H** = 1 in. (6.7 - 67 GPM) High Temp - Turbine Body Only♦
- 150S** = 1-1/2 in. (17.7 - 177 GPM) Standard - Uses Standard Sensor 2
- 150H** = 1-1/2 in. (17.7 - 177 GPM) High Temp - Turbine Body Only♦
- 200S** = 2 in. (33 - 330 GPM) Standard - Uses Standard Sensor 2
- 200H** = 2 in. (33 - 330 GPM) High Temp - Turbine Body Only♦
- 300S** = 3 in. (60-600 GPM) Standard - Uses Standard Sensor 2

♦ Call GPI for Sensor &amp; Electronics

## Sensor Choice

- 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)\*

*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










**G** + **I** + **T-** + **-075S** + **2** + **-6** ← (Sample Model Number)

\* Electronic Choice not available on all models.

At Great Plains Industries, we've been building rugged, reliable, liquid flowmeters for over 35 years. The GPI Industrial Meter family includes a full line of Precision and Industrial Turbine meters plus Oval Gear meters in various materials, sizes and fitting options.

We design products to meet the needs of our customers. This includes maintaining appropriate, industry standard approvals. Approvals vary by product line and may be dependent on meter application.

The Approval symbol is listed under product specifications on individual product pages. If no approval mark is found, check the chart to the right. For details about specific "Approvals" refer to the chart.

<b>3-A</b>	<b>3-A Sanitary Standards, Inc.</b> "Flowmeters for Milk and Milk Products, Number 28-03" for GSCPS Models and L Option Meters.
<b>ATEX</b> 	<b>Ex II 1 G</b> Per 94/9/EC.
	Product reviewed for EMC Directive 2004/108/EC. Includes: Euro Norms 61000-6-2 (2005) and 61000-6-3 (2007) on A1 and G2 Series Meters. Note: For <b>Oval Gear Meters</b> , the CE Approval is applied when meter is part of a system.
	<b>Factory Mutual Approved</b> Intrinsically Safe for Class I, II, III, Division 1, All Groups. Nonincendive for Class I, II, III, Division 2 Groups A, B, C, D, F, G.
	<b>Factory Mutual Approved</b> Class 1, Div. 1, Group D (01A31GM Only)
	<b>Factory Mutual Approved</b> Intrinsically safe for Class I & II, Div. 1, Groups A, B, C, D, E, F & G, T6 Ta=-40° C to 60° C hazardous locations, and for use in Class I, Zone 0 as Ex is IIC T6 Ta=-40° C to 60° C.
	<b>Federal Communication Commission</b> Industry Canada Approval Class B; digital service, part 15 of FCC Rules.
	<b>Ex ia IIC T6 Ta=60° C</b>
<b>IP44/IP54/IP66</b>	<b>Ingress Protection Code</b> IP44 (Greater than 1 mm and splashed water); IP54 (Dust protected and splashed water); IP66 (Dust-tight and heavy seas).
<b>IP/NEMA</b>	Pulse versions of <b>Oval Gear Meters</b> have enclosure ratings that vary from IP54 / NEMA 13 to IP66 / NEMA 16 depending on the application.
<b>NEMA 4</b>	NEMA Requirements: Enclosure constructed for indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment. Protection against falling dirt, rain, sleet, snow, windblown dust, splashing or hose directed water that will be undamaged by the external formation of ice on the enclosure. <i>GPI products are tested to NEMA requirements.</i>
	Restriction of Hazardous Substances Directive 2002/95/EC and 2011/65/EU
	Indicates that the product was tested and has met the certification requirements for electrical, plumbing and/or mechanical products.