

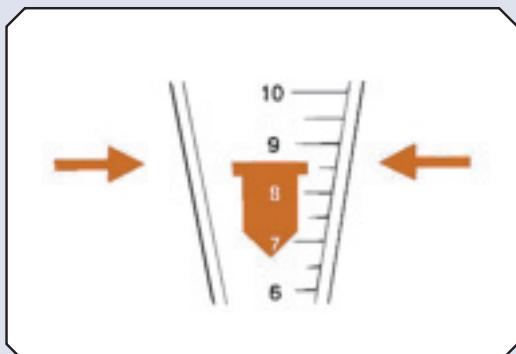
### Glass Tube VA Flowmeter

#### **SAFETY HOUSED GAPMETER TYPE GU**

Gapmeters type GU are glass tube Variable Area Flowmeters for direct display of liquid or gas flowrate. The GU housing provides a robust rigid frame, suitable for mounting directly into plant pipework, protecting the glass tube from pipework stress and random plant damage. The safety Perspex window gives good flow visibility, while protecting the operator. A safety blowout disc on the rear of the housing provides a relief vent for process fluids, in case of glass tube damage.

Glass tube VA flowmeters are simple and reliable in operation, and instantaneous in response – they offer flow visualisation to the operator, and the float rotation gives confirmation of correct meter performance. Standard tubes and floats offer low line pressure loss and a high resolution 100mm linear scale, fused into the glass tube. Fluid flow vertically upward through the tapered glass tube causes the float to rise to an equilibrium position. Flow rate is measured on the scale of the flow tube, along the top edge of the float.

The borosilicate glass tubes are individually scaled according to customers requirements, and individually flow calibrated.



#### **FEATURES**

- Robust construction
- Instant flow rate visual indication
- Suitable for installation in unsupported pipework
- Flow tube scaled for any gas and most liquids
- Safety housed for operator protection
- Site interchangeable 140mm flowtubes



#### **OPTIONS**

- GIR Alarms
- Toughened Glass Window (Higher Temps)

#### **SPECIFICATION - GTF FLOW TUBE**

<b>Tube Calibration</b>	Borosilicate glass Custom scaled for gas or liquid and site conditions. Standard air and water flow tube ranges as opposite
<b>Scale Length</b>	100mm
<b>Scale markings</b>	Fused ceramic ink
<b>Accuracy</b>	$\pm 1.25\%$ FSD standard ( $\pm 2.5\%$ for 1CHD/1BHD models, $\pm 3\%$ for predicted scales)

## ORDER CODE

G T F 1 A H S-B

Tube Size \_\_\_\_\_ Scale reference  
(1, 2 or 3)

Tube Taper \_\_\_\_\_  
(A, B or C)

Float material  
HS = Hollow stainless  
HD = Hollow dural  
SS = Solid stainless

## SPECIFICATION - GU HOUSING

<b>Connections</b>	3/8" BSP female (Optionally 1/2" ANSI/15mm DIN flanged)
<b>Housing</b>	Polyester coated aluminium with polypropylene rear facing pressure relief vent
<b>Window</b>	Solid perspex
<b>Max Pressure</b>	25 bar (non-shock)
<b>Max Temperature</b>	100°C (viton seals) 80°C (nitrile seals)

## ORDER CODE

G U S 2 1 2

End connection blocks \_\_\_\_\_  
S = Stainless steel  
B = Plated brass  
FS = Flanged S/S

Tube fittings \_\_\_\_\_  
(Size 1, 2 or 3)

Seal material  
1 = Nitrile O-rings  
2 = Vitron O-rings

Alarms  
1 = Not fitted  
2 = Low alarm

## ACCESSORIES

For fine flow control on a GU flowmeter installation, the FCV multi-turn needle valve is available in plated brass or stainless steel. FCV model flow ranges correspond to the three GTF tube sizes. Adaptors (type CVA) in brass or stainless steel allow the FCV to be connected directly to the GU flowmeter.

Infra-red sensors can be fitted to the GU frame to monitor the float position and provide latching high or low flow alarms.

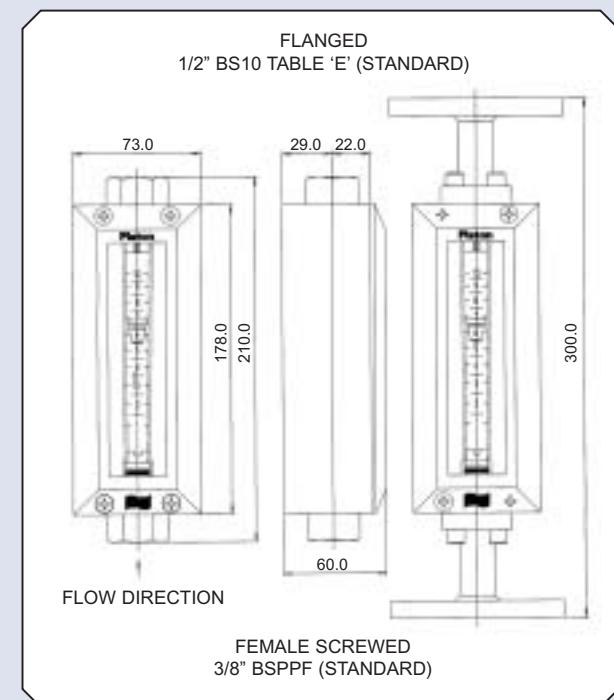
For higher pressure operation or where metal tubes are required, the API/APT Armoured Purgemeters should be considered.

## FLOW RANGES

Model (for gases)	Air at ATP (1.013 bar + 20°C)	
	Scale B	Scale D
GTF 1 CHD-B	5-100 cm <sup>3</sup> /min	-
GTF 1 BHD-B	50-250 cm <sup>3</sup> /min	-
GTF 1 AHD-B	60-600 cm <sup>3</sup> /min	2-40 L/hr
GTF 1 AHS-B	0.1-1.2 L/min	5-70 L/hr
GTF 2 CHD-B	0.2-2 L/min	10-120 L/hr
GTF 2 BHD-B	0.6-5 L/min	30-300 L/hr
GTF 2 BHS-B	1-10 L/min	-
GTF 2 AHD-B	1-12 L/min	50-700 L/hr
GTF 2 AHS-B	2-25 L/min	0.1-1.5 m <sup>3</sup> /hr
GTF 3 AHD-B	6-50 L/min	0.3-3 m <sup>3</sup> /hr
GTF 3 AHS-B	10-100 L/min	0.6-6 m <sup>3</sup> /hr
GTF 3 ASS-B	30-150 L/min	Air ATP

Model (for liquids)	Water at 20°C	
	Scale C	Scale E
GTF 1 AHS-C	2-25 cm <sup>3</sup> /min	-
GTF 1 ASS-C	10-80 cm <sup>3</sup> /min	0.6-4.6 L/hr
GTF 2 BHS-C	20-280 cm <sup>3</sup> /min	1-16 L/hr
GTF 2 AHS-C	50-800 cm <sup>3</sup> /min	2-46 L/hr
GTF 2 ASS-C	0.2-1.5 L/min	10-90 L/hr
GTF 3 AHS-C	0.2-3.0 L/min	10-180 L/hr
GTF 3 ASS-C	0.4-4.4 L/min	20-270 L/hr

**Note:** The tabulation gives typical air and water flow ranges. Tubes are custom scaled for the required fluids and line pressure/temperature conditions. A wide range of standard tube scales are available.



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