

Gapmeter Type GTLK

LABORATORY FLOWMETER KIT

APPLICATION

The Gapmeter type GTLK is a direct reading flowmeter for gases and liquids, featuring interchangeable metering elements to cover a wide range of flows.

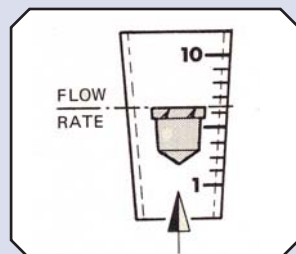
The unit comprises of a set of components allowing 16 flowranges, as detailed, to be undertaken. Component parts are housed in a polypropylene carrying case within foamed plastic compartments.

The 5 flow metering elements are precision tapered borosilicate glass and the 9 indicating floats are dynamically balanced to provide stability and accuracy. The unit is manufactured with 316 Stainless Steel contact parts and Viton 'O'-seals with a range of Fine Control Cartridge Valves to allow precise selection of flowrate. The clip-on cover and blowout disc will preclude injury to an observer in the case of indicator tube failure.

The instruction Book details full information of the kit with 16 flow graphs, Valve performance graphs, component parts and operation instructions.

METERING PRINCIPLE

The Gapmeter has two parts only - tapered tube and indicating float. The height reached by the float is determined by the GAP area at which upward flow force and gravity are equalised.



STANDARD SPECIFICATION

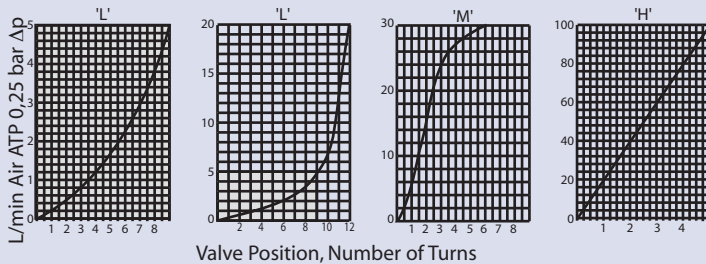
Tube	Borosilicate Glass
Scale	100mm fused in ceramic 1-10
Float	Red Duralumin (D) for gases only Hollow Stainless (SS) for liquids. (Other materials available for corrosive gases and liquids)
Accuracy	±1.25% FSD except matched 1/CD and 1/BD ±2.5% FSD
Connections	¼" BSP female with nozzle connectors to suit 5 - 12.5mm bore hose.
Housing	End block and inserts of electro-polished 316 stainless Steel
'O' Seals	Viton
Backplate	White epoxy-coated Duralumin extrusion
Cover	Clip-on clear Polycarbonate U/V stabilised
Valve	Supplied in 3 sizes (see performance graphs) Stainless Steel Needle and Port
Blow Out Disc	Silicon Rubber
Carrying Case	Black leather grained Polypropylene 400 x 300 x 80mm with 2 integral clasps and handle
Stand	Die-cast aluminium, black epoxy-coated with levelling screws
Temp Limitations	100°C
Pressure Limitations	Gases - 3.5 bar Liquids - 7 bar



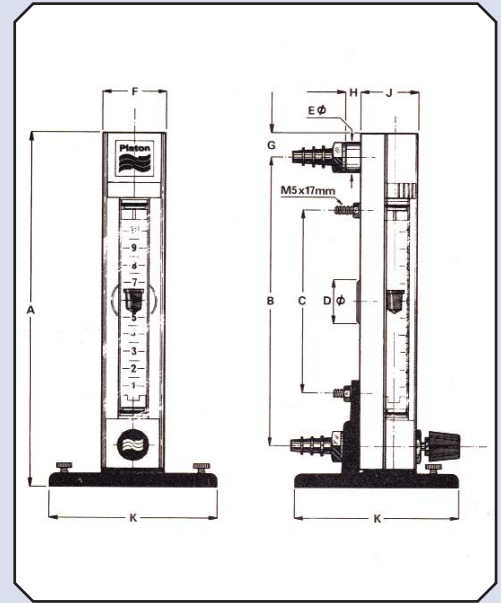
STANDARD FLOW RANGES

Air @ ATP (760 torr/20°C)		Water @ 20°C	
Tube & Float	Flow Range	Tube & Float	Flow Range
GTF1CHD-A	5-100 cm ³ /min	GTF1ASS-A	10/80 cm ³ /min
GTF*1BHD-A	10-250 cm ³ /min	GTF2BHS-A	20-280 cm ³ /min
GTF1AHD-A	60-600 cm ³ /min	GTF2AHS-A	50-800 cm ³ /min
GTF1AHS-A	100-1200 cm ³ /min	GTF2ASS-A	200-1500 cm ³ /min
GTF2CHD-A	200-2000 cm ³ /min	GTF3AHS-A	200-3000 cm ³ /min
GTF2CHS-A	200-4000 cm ³ /min	GTF3ASS-A	400-4400 cm ³ /min
GTF2BHD-A	600-5000 cm ³ /min		
GTF2BHS-A	1-10 L/min	*OPTIONAL EXTRAS	
GTF2AHD-A	1-12 L/min	A comprehensive list of scales and calibration data is available on request.	
GTF2AHS-A	2-25 L/min		
GTF3AHD-A	6-50 L/min		
GTF3AHS-A	10-100 L/min		

VALVE PERFORMANCE GRAPHS



Valve Position, Number of Turns



	A	B	C	D	E	F	G	H	J	K
IN's	8 1/2	7 1/2	4 3/4	1	3/2	1 1/16	5/8	3/8	1 7/16	4 1/2
MM	216	184	121	25	19	40	16	10	37	108

GAPMETER TYPE GTB

The Gapmeter type GTB is a further application of the Gapmeter type GT and is designed primarily for workshop bench use.

The base allows the meter to be mounted to a horizontal surface by screws with options as detailed on leaflet M10.

OTHER TYPES

GAPMETERS: Form an integrated series of flowmeters comprising a wide range of flows and design features for specific applications.

Small Gapmeters in sizes for pipes up to 1/2" diameter

IGU series for pipe 1/8" - 3"

AMI series for pipe 1/2" - 10"

SGU series for pipe 1 1/4" - 18"

FLOSCAN: Floscan alarms and transmitters can be fitted to any Gapmeter for high or low flow deviation or for operating remote indicators, recorders, controllers, integrators or data processing equipment.

FLOSTAT: rate of flow controllers automatically control the fluid flow in the pipe irrespective of change in pressure at inlet or outlet and are available in sizes from 1/8" - 10"

ACTUATORS: Pneumatic or electric controls for remote or automatic selection of flow setting.



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