

## MPB SERIES 630 AND 1000 VARIABLE AREA FLOWMETERS

The MPB Series 630 and 1000 range of Variable Area Flowmeters are suitable for measuring the instantaneous flow rate of virtually any process liquid or gas. The principle of operation of the variable area flowmeter is quite simple:-

The height attained by the float in its tapered flow tube is directly related to a calibrated scale. The flow should be read from the centre of the ball, or from the top of the plumb bob float.

This range of flowmeters offers very low measurement capability down to 2-20cc/min (Air).

The Series 630 and 1000 flowmeters have rear facing connections as standard. The instruments are supplied complete with 2 x M3 mounting studs x 10mm long.

### SERIES 630 AND 1000 FEATURES

- \* ALL STAINLESS STEEL CONSTRUCTION AVAILABLE OFFERING EXCELLENT CORROSION RESISTANCE
- \* DIRECT READING OF INSTANTANEOUS FLOW RATE
- \* STANDARD FLOW RANGES
- \* EASY TO READ SCALE
- \* FRICTIONLESS, HENCE LOW HEAD LOSS
- \* 56mm OR 93mm TUBE LENGTHS
- \* STANDARD OR CUSTOMISED FLOW SCALES
- \* EASY TUBE REMOVAL IN-SITU
- \* VALVED OR NON-VALVED VERSIONS
- \* REAR FACING CONNECTIONS AS STANDARD
- \* POLYCARBONATE SAFETY COVER
- \* REAR OF PANEL MOUNTING KITS AVAILABLE
- \* MINIMAL MAINTENANCE
- \* LONG SERVICE LIFE
- \* ALARM VERSIONS AVAILABLE CONTACT MPB SALES OFFICE FOR DETAILS



Typical applications include analytical instrumentation, gas flow control, small dosing systems, purge metering, leak detection and blending systems.

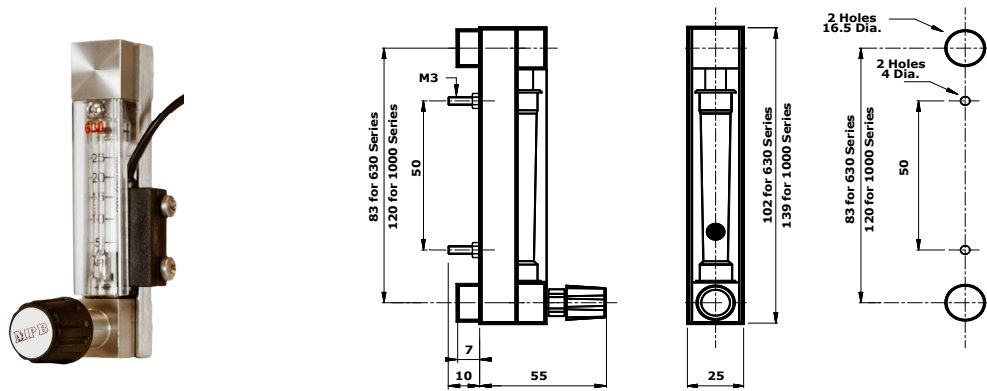
Typical industries served include brewing, gas analysis, pharmaceutical, aerospace, engine testing, paper, water treatment, oil and gas, etc, etc.

## 630 AND 1000 VARIABLE AREA FLOWMETERS

Chassis:			
End Blocks:	Stainless Steel Nickel plated brass	Anodised aluminium Stainless Steel, PVC	
Process Connections:	1/8" NPT or 1/8" BSPPF	Weight:	630 – 170 grams 1000 – 225 grams
Cover:	Polycarbonate	Maximum Working Pressure:	Gas: up to 20 bar g (non shock) Liquid: up to 20 bar g (non shock)
Seals:	Nitrile or Viton	Maximum Working Temperature:	60°C Nitrile 100°C Viton
Metering Tube:	Borosilicate glass	Accuracy:	± 5% FSD for predicted scales ± 3% FSD for calibrated scales
Scale:	Permanently fired (black)		
Ball Floats:	Black Glass, Stainless Steel, Ruby, Tungsten, Ceramic		

### STANDARD RANGES

SERIES 630		SERIES 1000	
AIR @ 1013 mbar abs 20°C	WATER @ 20°C	AIR @ 1013 mbar abs 20°C	WATER @ 20°C
2 – 20 cc/min	5 – 50 cc/min	2 – 20 cc/min	5 – 50 cc/min
5 – 50 cc/min	10 – 100 cc/min	5 – 50 cc/min	10 – 100 cc/min
10 – 100 cc/min	25 – 250 cc/min	10 – 100 cc/min	25 – 250 cc/min
25 – 250 cc/min	50 – 500 cc/min	25 – 250 cc/min	60 – 600 cc/min
50 – 500 cc/min		50 – 500 cc/min	100 – 1000 cc/min
0.1 – 1.0 L/min		100 – 1000 cc/min	
0.2 – 2.5 L/min		0.25 – 2.5 L/min	
0.5 – 5.0 L/min		0.5 – 5 L/min	
1.0 – 10 L/min		1.0 – 10 L/min	
2.0 – 20 L/min		2.5 – 25 L/min	
		4.0 – 40 L/min	



Customised flow ranges are available. Please consult BES to select the required flow range for the process fluid used.

Due to the constant development and improvement of products, information may be altered or withdrawn without notice.  
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