

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
- * POLYCARBONATE SAFETY COVER
- * FRICTIONLESS, HENCE LOW HEAD LOSS
- * REAR OF PANEL MOUNTING KITS AVAILABLE
- * 56mm OR 93mm TUBE LENGTHS
- * MINIMAL MAINTENANCE
- * STANDARD OR CUSTOMISED FLOW SCALES
- * LONG SERVICE LIFE
- * EASY TUBE REMOVAL IN-SITU
- * ALARM VERSIONS AVAILABLE CONTACT MPB SALES OFFICE FOR DETAILS
- * VALVED OR NON-VALVED VERSIONS
- * REAR FACING CONNECTIONS AS STANDARD



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:	Stainless Steel	Plumb Bob Floats:	Anodised aluminium Stainless Steel, PVC
End Blocks:	Stainless Steel		
Process Connections:	1/8" NPT or 1/8" BSPFF	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		
Metering Tube:	Borosilicate glass	Maximum Working Temperature:	60°C Nitrile 100°C Viton
Scale:	Permanently fired (black)		
Ball Floats:	Black Glass, Stainless Steel, Ruby, Tungsten, Ceramic	Accuracy:	± 5% FSD for predicted scales ± 3% FSD for calibrated scales

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	



Due to the constant development and improvement of products, information may be altered or withdrawn without notice.