

## MPB SERIES 630 AND 1000 VARIABLE AREA FLOWMETERS

### GENERAL INFORMATION

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 MPB 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.



### MPB SERIES 630 AND 1000 FEATURES

- ALL STAINLESS STEEL CONSTRUCTION OFFERING EXCELLENT CORROSION RESISTANCE
- DIRECT READING OF INSTANTANEOUS FLOW RATE
- 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

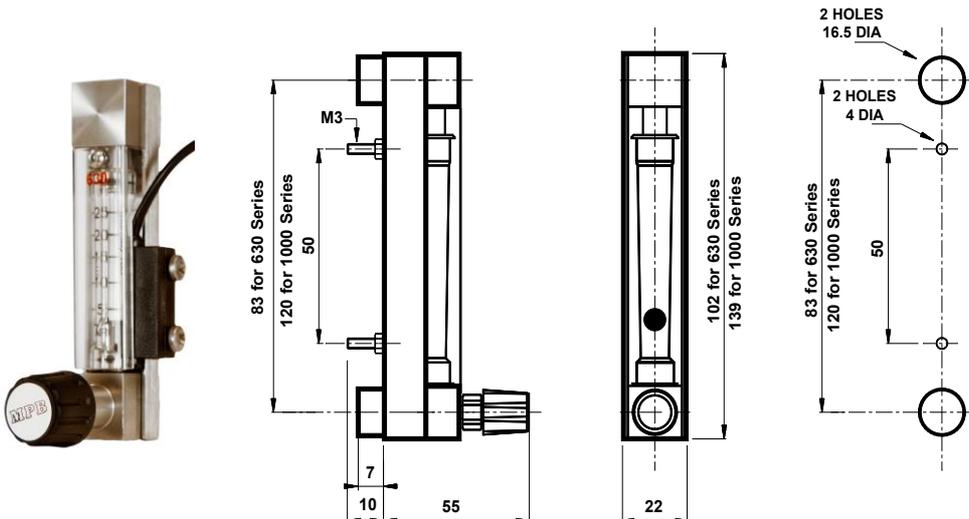
*Typical applications include analytical instrumentation, gas flow control, small dosing systems, purge metering, leak detection and blending systems.*

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

# MPB SERIES 630 AND 1000 VARIABLE AREA FLOWMETERS

<p><b>Chassis:</b> 316 Stainless steel</p> <p><b>End Blocks:</b> 303 Stainless steel</p> <p><b>Process Connections:</b> 1/8" NPTF, or 1/8" BSPFF</p> <p><b>Cover:</b> Polycarbonate</p> <p><b>Seals:</b> Nitrile, Viton, EPDM, etc</p> <p><b>Metering Tube:</b> Borosilicate glass</p> <p><b>Scale:</b> Permanently fired black ceramic</p> <p><b>Ball Floats:</b> Black Glass, Stainless steel, Ruby, Tungsten, Ceramic</p>	<p><b>Plumb Bob Floats:</b> Anodised aluminium 316 Stainless steel, PVC</p> <p><b>Weight:</b> 630 – 170 grams 1000 – 225 grams</p> <p><b>Maximum Working Pressure:</b> Gas: up to 20 bar g (non-shock) Liquid: up to 20 bar g (non-shock)</p> <p><b>Maximum Working Temperature:</b> 60°C Nitrile 100°C Viton</p> <p><b>Accuracy:</b> ± 5% FSD for predicted scales ± 3% FSD for calibrated scales</p>
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MPB Series 630		MPB Series 1000	
AIR @ 1013 mbar abs 20°C	WATER @ 20°C	AIR @ 1013 mbar abs 20°C	WATER @ 20°C
2 - 20cc/min 5 - 50cc/min 10 - 100cc/min 25 - 250cc/min 50 - 500cc/min 0.1 - 1 L/min 0.25 - 2.5 L/min 0.5 - 5 L/min 1 - 10 L/min	5 - 50cc/min 10 - 100cc/min 25 - 250cc/min 50 - 500cc/min	5 - 50cc/min 10 - 100cc/min 25 - 250cc/min 50 - 500cc/min 100 - 1000cc/min 0.25 - 2.5 L/min 0.5 - 5 L/min 1 - 10 L/min 2.5 - 25 L/min 4 - 40 L/min	5 - 50cc/min 10 - 100cc/min 25 - 250cc/min 60 - 600cc/min 100 - 1000cc/min



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

*MPB Industries Ltd - Designers and Manufacturers of Scientific and Process Control Instrumentation*

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