

## MPB SERIES 3000 VARIABLE AREA FLOW METERS

The MPB Series 3000 range of Variable Area Flowmeters presents an economical means of accurate flow measurement. A scale length of 260mm offers excellent resolution giving easily read scale graduations.

The latest version of the MPB Series 3000 Flowmeter now offers a range of additional twelve scales with flows as low as 250cc/min Air 1013 mbar abs 20°C.

The MPB Series 3000 Flowmeter offers excellent scale resolution.

All the recently added flow tubes utilise a “free float” design which has a very low pressure drop.

The MPB Series 3000 is an ideal flowmeter for use as a calibration master, or where high accuracy with a good resolution scale is required for the most demanding of variable area flow applications.

The materials of construction offer compatibility to a wide range of industrial process mediums.

The end connections can be supplied in either stainless steel or rigid PVC.

The units are fitted with a calibrated scale plate. In addition, a metric scale is permanently fired onto the tube. A useful blank scale plate can also be provided for customers own calibration if required.

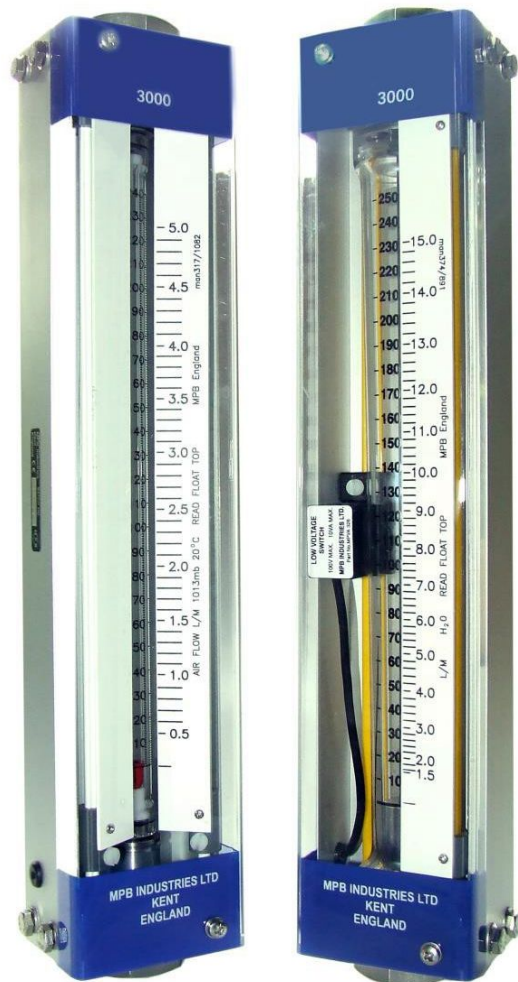
The 3000 Series can be used to measure the flow rate of most process gases and liquids.

A wide range of tubes is available for the MPB Series 3000 from as low as 250cc/min Air up to 3,000 L/min Air. Other ranges up to 125 L/min of Water are also available.

One or two economical latching Hi and Lo alarm devices can be fitted. These enable the alarms to remain activated whilst flow is above or below a set point. This reduces expensive electronic circuitry and is ideal for remote and process control applications.

In addition, a good selection of the ranges can be fitted with alarms for air applications.

A rear of panel mounting kit is available complete with bezel and all fittings.



### SERIES 3000 FEATURES

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| <ul style="list-style-type: none"> <li>* DIRECT READING OF INSTANTANEOUS FLOW RATES</li> <li>* FLOW RATES AS LOW AS 250CC/MIN AIR ARE AVAILABLE</li> <li>* ECONOMICAL LATCHING ALARM(S)</li> <li>* POLYCARBONATE SAFETY COVER</li> <li>* METRIC SCALES</li> <li>* PVC OR STAINLESS STEEL CONNECTIONS ARE AVAILABLE AS STANDARD</li> <li>* CAN BE SUPPLIED WITH FLANGES</li> <li>* TUBE ASSEMBLY EASILY REMOVED AND REPLACED IN-SITU</li> </ul> | <ul style="list-style-type: none"> <li>* PLAIN SCALE PLATE FOR CUSTOMER CALIBRATION CAN BE SUPPLIED</li> <li>* WIDE RANGE OF STANDARD FLOW RATES</li> <li>* LIGHTWEIGHT CONSTRUCTION</li> <li>* ROBUST DESIGN</li> <li>* GUIDED FLOATS OR "FREE FLOATS" ARE USED ON ALL RANGES GIVING STABLE READINGS. FLOW READING TO BE TAKEN FROM SCALE LEVEL, WITH TOP OF FLOAT</li> <li>* HIGH RESOLUTION SCALES FOR MAXIMUM ACCURACY</li> <li>* IN-LINE, OR PANEL MOUNTING</li> </ul> |
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### 3000 VARIABLE AREA FLOWMETER

<p><b>Chassis:</b> Anodised aluminium to BS EN 12373/AA25</p> <p><b>End Blocks:</b> Rigid PVC or Stainless steel</p> <p><b>Process Connections:</b> 1/4", 1/2", 3/4" &amp; 1" BSPPF</p> <p><b>Cover:</b> Polycarbonate</p> <p><b>Seals:</b> Nitrile, Viton or to customer specification</p> <p><b>Metering Tube:</b> Borosilicate glass with metric permanently fired scale</p> <p><b>Scale:</b> Adjustable calibrated scale (blank scale if required)</p> <p><b>Floats:</b> Stainless steel Hard anodised aluminium</p>	<p><b>Weight:</b> 1250 grams (typical)</p> <p><b>Maximum Working Pressure:</b> Gas: 10 bar g (non shock) Liquid: 12 bar g (non shock)</p> <p><b>Maximum Working Temperature:</b> 60°C Nitrile 100°C Viton</p> <p><b>Accuracy:</b> ± 5% FSD predicted, or better by series calibration</p> <p><b>Optional Alarm:</b> Rating: 100V max. 1 amp max. 10VA max. Resistive load Contacts N/O</p> <p><b>Connection:</b> 2 metre flying lead as standard, or to customer requirement</p>
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## STANDARD RANGES

AIR @ 1013 mbar abs 20°C	WATER @ 20°C	WATER @20°C
25 - 250 cc/min	0.5 - 5 L/min	30 - 300 L/hr
100 - 1000cc/min	1.0 - 10 L/min	50 - 500 L/hr
0.25- 2.5 L/min	1.5 - 15 L/min	100 - 1000 L/hr
0.5 - 5 L/min	2.5 - 25 L/min	150 - 1500 L/hr
0.75- 7.5 L/min	5.0 - 50 L/min	300 - 3000 L/hr
1.0 - 10 L/min	7.5 - 75 L/min	450 - 4500 L/hr
1.5 - 15 L/min	10 - 100 L/min	600 - 6000 L/hr
2.5 - 25 L/min	12 - 125 L/min	750 - 7500 L/hr
3 - 30 L/min		
5 - 50 L/min		
10 - 100 L/min		
15 - 150 L/min		
20 - 200 L/min		
25 - 250 L/min		
40 - 400 L/min		
50 - 500 L/min		
75 - 750 L/min		
100 - 1000 L/min		
150 - 1500 L/min		
22 - 2250 L/min		
300 - 3000 L/min		



Customised flow ranges are available. Please consult BES Flowmeters to select the required flow range for the process fluid or to discuss your application.



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