

## MPB SERIES 3000 VARIABLE AREA FLOWMETER

### GENERAL INFORMATION

The MPB Series 3000 range of Variable Area Flowmeters presents an economical means of accurate flow measurement. A scale length of 250mm 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 up to 3000 L/min Air @ 1013 mbar abs 20°C. Other ranges up to 125 L/min of Water are also available.

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

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

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

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.

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



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## MPB SERIES 3000 FEATURES

- DIRECT READING OF INSTANTANEOUS FLOW RATES
- FLOW RATES AS LOW AS 250CC/MIN AIR ARE AVAILABLE
- ECONOMICAL LATCHING ALARM(S)
- POLYCARBONATE SAFETY COVER
- METRIC SCALES
- PVC, OR 316 STAINLESS STEEL CONNECTIONS ARE AVAILABLE AS STANDARD
- TUBE ASSEMBLY EASILY REMOVED AND REPLACED IN-SITU
- CAN BE SUPPLIED WITH FLANGES
- PLAIN SCALE PLATE FOR CUSTOMER CALIBRATION CAN BE SUPPLIED
- LIGHTWEIGHT CONSTRUCTION
- 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
- HIGH RESOLUTION SCALES FOR MAXIMUM ACCURACY
- IN-LINE, OR PANEL MOUNTING

<b>Chassis:</b>	<b>Anodised aluminium to BS EN 12373/AA25</b>	<b>Weight:</b>	<b>1250 grams (typical)</b>
<b>End Connections:</b>	<b>Rigid PVC or 316 Stainless steel</b>	<b>Maximum Working Pressure:</b>	
		<b>Gas:</b>	<b>10 bar g (non-shock)</b>
		<b>Liquid:</b>	<b>12 bar g (non-shock)</b>
<b>Process Connections:</b>	<b>1/4", 1/2", 3/4" and 1" BSPFF</b>	<b>Maximum Working Temperature:</b>	
			<b>60°C Nitrile</b>
			<b>100°C Viton</b>
<b>Cover:</b>	<b>Polycarbonate</b>	<b>Accuracy:</b>	<b>± 5% FSD predicted, or better by series calibration</b>
<b>Seals:</b>	<b>Nitrile, Viton, EPDM, etc</b>	<b>Optional Alarm:</b>	<b>Rating: 100V max. 1 amp max. 10VA max. Resistive load. Contacts N/O</b>
<b>Metering Tube:</b>	<b>Borosilicate glass with metric permanently fired black ceramic scale</b>	<b>Connection:</b>	<b>2 metre flying lead as standard, or to customer requirement</b>
<b>Scale:</b>	<b>Adjustable calibrated scale (blank scale if required)</b>		
<b>Floats:</b>	<b>316 Stainless steel Hard anodised aluminium</b>		

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

Part of the Scientific Digital Imaging plc (SDI) group of companies

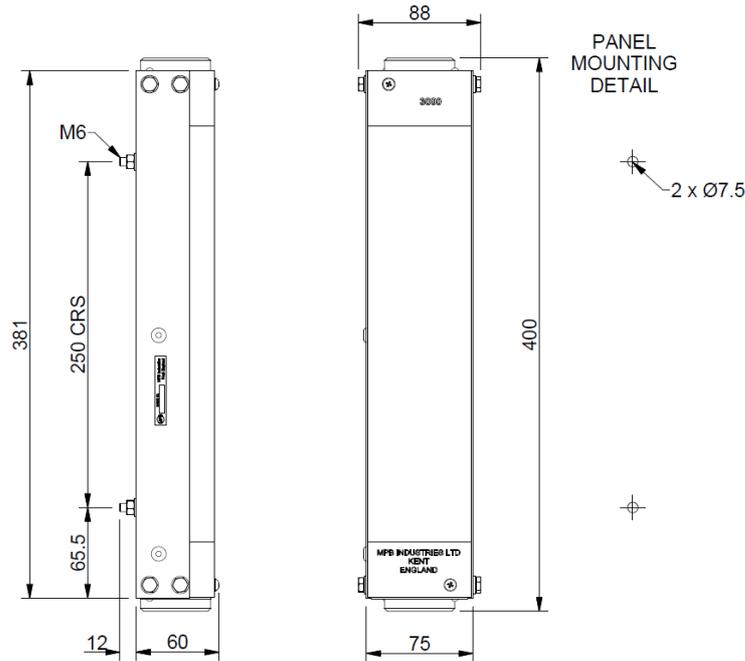
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Due to the constant development and improvement of products, information may be altered or withdrawn without notice.

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## STANDARD RANGES

AIR @ 1013 mbar abs 20°C	WATER @ 20°C	WATER @ 20°C
25 - 250cc/min	5 - 50cc/min	0.3 - 3 L/hr
100 - 1000cc/min	10 - 100cc/min	0.6 - 6 L/hr
0.25 - 2.5 L/min	25 - 250cc/min	1.5 - 15 L/hr
0.5 - 5 L/min	50 - 500cc/min	3 - 30 L/hr
0.75 - 7.5 L/min	0.1 - 1 L/min	6 - 60 L/hr
1 - 10 L/min	0.2 - 2 L/min	12 - 120 L/hr
1.5 - 15 L/min	0.3 - 3 L/min	18 - 180 L/hr
2.5 - 25 L/min	0.5 - 5 L/min	30 - 300 L/hr
3 - 30 L/min	1 - 10 L/min	50 - 500 L/hr
5 - 50 L/min	1.5 - 15 L/min	100 - 1000 L/hr
10 - 100 L/min	2.5 - 25 L/min	150 - 1500 L/hr
15 - 150 L/min	5 - 50 L/min	300 - 3000 L/hr
20 - 200 L/min	7.5 - 75 L/min	450 - 4500 L/hr
25 - 250 L/min	10 - 100 L/min	600 - 6000 L/hr
40 - 400 L/min	12 - 125 L/min	750 - 7500 L/hr
50 - 500 L/min		
75 - 750 L/min		
100 - 1000 L/min		
150 - 1500 L/min		
200 - 2250 L/min		
300 - 3000 L/min		

Customised flow ranges are available.

Please consult MPB Industries to select the required flow range for the process fluid used.

Contact MPB for rear of panel mounting kit details which are supplied with bezel and all fittings.

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