

MPB SERIES 1200BV-ANS/230 ANAESTHETIC VARIABLE AREA FLOWMETER

GENERAL INFORMATION

This version of the MPB Series 1200BV-ANS/230 Flowmeter is manufactured exclusively to house an anaesthetic 230mm standard length flow tube and will give an instantaneous flow rate of the standard anaesthetic gases.

The MPB Series 1200BV-ANS/230 Anaesthetic Flowmeter has an overall length of 300mm, with process centres of 275mm.

This flowmeter can be supplied with either straight through, or rear facing connections ($G\frac{1}{4}$ ").

The anaesthetic flow tube supplied with this instrument is fully compliant to ISO 5358 and BS4272.

Normally the flow tube supplied exhibits dual scale calibration whereby the first third of the flow range is dedicated to 0.1-1 L/min and, for example, 2-10 L/min would be a linear scale for the remainder of the scale length.

Please see page 2 of this technical bulletin for flow ranges and gases available with this flowmeter.

The 1200BV-ANS/230 Anaesthetic Flowmeter is supplied with an integral flow control valve.

The flowmeter has a photo luminescent backing to provide a degree of back lighting in the event of power failure.

The flow tube is fully conductive, both internally and externally, and is compliant to the international standard for human and veterinary anaesthesia flow measurement.

The flow tube utilises serial numbered floats and flow tubes to guard against incorrect reassembly when cleaning. In addition, the float exhibits a white dot so that the operator can clearly see the rotation.

The flow tube is supplied complete with colour banding to international standards. We can also supply colour banding to other requirements.

The flowmeter is fitted with a contact device to earth the flow tube through to the mounting studs and chassis. This is to prevent any static build up.

In addition to standard anaesthetic gases, MPB can supply calibrated flow tubes for xenon, heliox, entinox, nitrox and nitric oxide as typical examples.

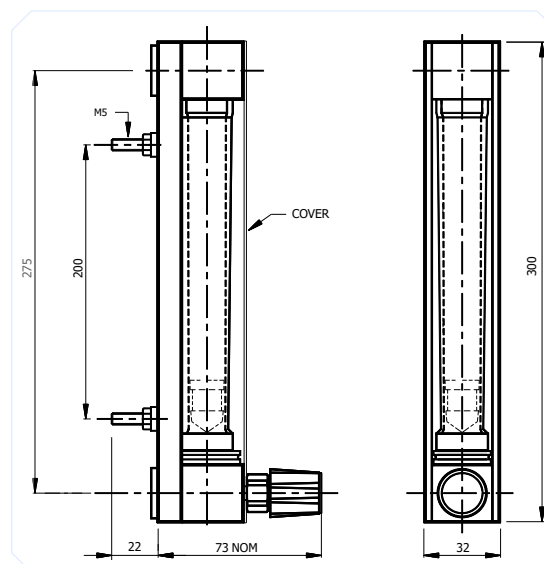
The 1200 Series Flowmeter has nickel plated brass end connections, however, stainless steel can be supplied if required at an additional cost.



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FEATURES

- VALVED OR NON-VALVED VERSIONS
- STRAIGHT THROUGH OR REAR FACING CONNECTIONS
- FRICTIONLESS, HENCE LOW HEAD LOSS
- ELEGANT AND ROBUST DESIGN
- EASY TO READ SCALE
- EASY IN-SITU TUBE REMOVAL AND RE-INSTALLATION
- STANDARD OR CUSTOMISED FLOW SCALES AVAILABLE
- DIRECT READING OF INSTANTANEOUS FLOW RATE
- POLYCARBONATE SAFETY COVER
- MINIMAL MAINTENANCE
- COLOUR BANDING TO INTERNATIONAL STANDARD (SPECIFY WHEN ORDERING)
- LONG SERVICE LIFE



STANDARD RANGES

Flow Rate	Gas
100 - 1000cc/min	O ₂ , Air, CO ₂ , N ₂ O
0.1 - 1 L/min	O ₂ , Air, CO ₂ , N ₂ O
0.1 - 4 L/min	O ₂ , CO ₂ , N ₂ O
0.1 - 8 L/min	O ₂ , Air, CO ₂ , N ₂ O
0.1 - 10 L/min	O ₂ , Air, CO ₂ , N ₂ O
0.2 - 12 L/min	O ₂ , Air, CO ₂ , N ₂ O
0.2 - 15 L/min	Air, CO ₂ , N ₂ O
1 - 10 L/min	O ₂ , Air
	O ₂ , Air, CO ₂ , N ₂ O

Chassis:	Anodised aluminium to BSEN12373	Plumb Bob Floats: Red hard anodised aluminium with white rotation indicator
End Blocks:	Nickle plated Brass Stainless Steel	Maximum Working Pressure: Gas: up to 20 bar g (non shock)
Process Connections:	G $\frac{1}{4}$ " rear facing or straight through	NOTE: All flow tubes calibrated at 1013 mbar abs 20°C
Valve Stem:	Stainless steel,	Maximum Working Temperature: 100°C Viton
Cover:	Polycarbonate	Accuracy: All flow tubes supplied with this instrument have been calibrated to confirm their accuracy falls within the limits set by ISO 5358 and Class 2.5 VDI/VDE 3513. All calibration equipment is traceable to National UK Standards
Seals:	Viton	
Metering Tube:	Borosilicate glass 230mm long with permanently fired scale and fully conductive to ISO 5358 and BS 4272	
Scale:	Permanently fired (black)	
Weight:	670 grams	

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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