



Your Key to Flowmeter Manufacturing



KEY INSTRUMENTS

A Division of Brooks Instrument

➤ Your Key to Flowmeter Manufacturing

Machined Acrylic Flowmeters **SERIES FR FLOWMETERS**

Series FR are precision-machined acrylic flowmeters with direct reading air and water scales and are available in either English or Metric scales. The Series FR flowmeters can be configured with a control valve on the inlet or no valve at all; fittings and valve can be specified in either brass, PVC, or stainless steel; O-rings can be provided in Buna-N, Viton® or other optional elastomers.



FR2000 Valve/No Valve

AIR RANGES

0.04 - 100 LPM
0.1 - 200 SCFH

WATER RANGES

5 - 240 CCM
0.2 - 40 GPH



FR4000 Valve/No Valve

AIR RANGES

0.4 - 100 LPM
0.4 - 200 SCFH

WATER RANGES

4 - 3700 CCM
1 - 60 GPH



FR4500 Valve/No Valve

AIR RANGES

14 - 560 LPM
0.5 - 20 SCFM

WATER RANGES

1 - 20 LPM
0.25 - 5 GPM



FR4400 Inline

AIR RANGES

200 - 8500 LPH
6 - 300 SCFH

WATER RANGES

4 - 230 LPH
1 - 60 GPH



FR4700 Inline

AIR RANGES

80 - 1500 LPM
3 - 50 SCFM

WATER RANGES

2 - 40 LPM
0.5 - 10 GPM



FR4800 Inline

AIR RANGES

150 - 2200 LPM
5 - 80 SCFM

WATER RANGES

5 - 70 LPM
1 - 20 GPM



FR5000 S or V Valve/No Valve

AIR RANGES

100 - 3000 LPM
3 - 100 SCFM

WATER RANGES

1 - 75 LPM
0.4 - 20 GPM



FR5000-I Inline

AIR RANGES

100 - 4000 LPM
3 - 100 SCFM

WATER RANGES

1 - 75 LPM
0.4 - 20 GPM



FR5500 Inline

AIR RANGES

300 - 11000 LPM
10 - 400 SCFM

WATER RANGES

10 - 400 LPM
3 - 100 GPM



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Precision Glass Tube Flowmeters **SERIES GD, GR & GS FLOWMETERS**

Series GD, GR and GS are borosilicate glass tube flowmeters for liquids or gases available in either 65 or 150 mm scale lengths with corresponding reference scales. GD flowmeters are direct read scales. Series GR and GS flowmeters can be configured with a standard or precision control valve on either the inlet, outlet or no valve at all; fittings can be specified in either aluminum or stainless steel; valves can be specified in either brass or stainless steel; O-rings and seals can be provided in Buna-N, Viton® or other optional elastomers.



SERIES GR **65 mm** Valve/No Valve

MAX FLOW RATE

AIR	WATER
66 LPM	2 LPM



SERIES GR **150 mm** Valve/No Valve

MAX FLOW RATE

AIR	WATER
66 LPM	2 LPM



SERIES GS-M **150 mm** Valve/No Valve

MAX FLOW RATE

AIR	WATER
134 LPM	4.25 LPM



SERIES GS **65 mm** Valve/No Valve

MAX FLOW RATE

AIR	WATER
66 LPM	2 LPM



SERIES GS **150 mm** Valve/No Valve

MAX FLOW RATE

AIR	WATER
66 LPM	2 LPM



SERIES GS-L **65 mm/150 mm** Valve/No Valve/Inline

MAX FLOW RATE

AIR	WATER
500 LPM	20 LPM



SERIES GD **65 mm/150 mm** Valve/No Valve

MEASURE FLOW RATES IN

AIR	HYDROGEN
ARGON	NITROGEN
CO ₂	OXYGEN
HELIUM	WATER



Flow Control Valves **SERIES CV7500 CONTROL VALVES**

STANDARD

AIR RANGES	WATER RANGES
0 - 68 LPM	0 - 3100 CCM

PRECISION

AIR RANGES	WATER RANGES
0 - 52 LPM	0 - 2150 CCM

Capabilities & Services

We Specialize in Custom Designed Flowmeters

- Prototype Development
- NIST Certified Flow Calibrations
- FDA and GMP Documentation Control
- Quality Workmanship & Technical Support
- Innovative Solutions
- Program Management
- Design Engineering
- Pneumatic Testing



SERIES PR

PITOT tube flowmeters measure water flow rates in closed horizontal PVC pipe systems.

Five different models machined from one piece. Corrosion-resistant acrylic accommodates five flow ranges and 1 1/4" to 2" pipe. Dual scales allow for easy English or Metric conversion. Round construction provides wide viewing angles. Easy installation with clamps and gasket included. Easily serviceable with only one moving part.

MAX FLOW RATE up to 130 GPM (500 LPM)



POCKET FLOWMETERS

Portable hand held flowmeters designed to measure flow rates quickly and easily.

Pocket Flowmeters must be held vertically to ensure accurate readings. Read center of ball float.



MAX FLOW RATES

AIR (2 Models)
8 LPM & 15 LPM

OXYGEN (3 Models)
2 1/2 LPM, 8 LPM, & 15 LPM

Molded Flowmeters

Molded with high impact resistant polycarbonate, Series MR3000 and FR6000 are manufactured with precision adjusting valves for accurate leak-free control. Molded flowmeters are a high quality, economical choice.

MOLDED POLYCARBONATE SERIES MR3000

Valve/No Valve

AIR RANGES
0.1 - 200 SCFH
0.05 - 100 LPM

WATER RANGES
0.2 - 40 GPH
4 - 300 CCM



OXYGEN & AIR METERS SERIES FR6000

Valve

FLOW RANGE - AIR

1/4 - 8 LPM
1/2 - 15 LPM

FLOW RANGE - O₂

1/8 - 3 1/2 LPM
1/4 - 8 LPM
1/2 - 15 LPM



OXYGEN METER MANIFOLD SYSTEM

Valve

- 2 & 3 Bay Manifolds
- Precision Machined Stainless Steel
- Series FR6000 Flowmeters



Electronic Products

Electronic flowmeters can be installed in any orientation with no effect on flow reading. All units are supplied with an aluminum body, high-impact resistant polycarbonate case and brass compression fittings.

SERIES PV9000

- Electronic Flowmeter uses differential pressure sensing technology for flow measurement.
- Measures the flow rate of non-hazardous, inert gases with an accuracy of $\pm 2\%$ of full scale.
- Available with 4-20 mA and 0-5 VDC output.
- Also available with an integral display, 0-5VDC output and RS232 communications.

AIR RANGES
1 - 500 CCM
0.02 - 50 LPM



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