Variable Area Glass Flowmeters

65 mm and 150 mm, ±2% FS Accuracy, Interchangeable Flowtubes

Accurately measure flow rates of air, water, and other commonly used gases with the Series VA Variable Area Glass Flowmeters. Flowmeters are designed with an easy-to-read universal mm scale and supplied with a correlation chart containing calibration data for air and water. Correlation data for other gases and liquids is available. Permanently fused ceramic scale with vertical locator line reduces parallax and eye fatigue. Thick polycarbonate front shield protects tube from breakage and also serves as a magnifying lens to enhance reading resolution.

Glass flowmeters are suitable for metering carrier gases, liquid and gas measurement in pilot plants, laboratories, process flow and level indicating. Use an optional acrylic tripod base to convert to self-standing bench mounting.

Accurate measurement of flow rates

Flowmeters are shipped completely assembled and ready for panel mounting.

Model (65 mm Scale) | Max. Flow (Air) scfh | Max. Flow (H2O) gph
--- | --- | ---
VA1042, VA1243, VA1343, VA25425, VA25025: ±5% FS @ 70°F (21.1°C) and 14.7 psia (1 @ absolute).
VA1042, VA1243, VA1343, VA25425, VA25025: ±5% FS @ 70°F (21.1°C) and 14.7 psia (1 @ absolute).
VA1042, VA1243, VA1343, VA25425, VA25025: ±5% FS @ 70°F (21.1°C) and 14.7 psia (1 @ absolute).
VA1042, VA1243, VA1343, VA25425, VA25025: ±5% FS @ 70°F (21.1°C) and 14.7 psia (1 @ absolute).
VA1042, VA1243, VA1343, VA25425, VA25025: ±5% FS @ 70°F (21.1°C) and 14.7 psia (1 @ absolute).
VA1042, VA1243, VA1343, VA25425, VA25025: ±5% FS @ 70°F (21.1°C) and 14.7 psia (1 @ absolute).

Options:

- For NIST traceable calibration certificate, use order code NISTCAL-FL1: $210.00

Specifications:

- Service: Compatible gases or liquids.
- Wetted Materials:
  - Flowtube: Borosilicate glass;
  - Floats: Glass or SS (sapphire, Carbolyt and tantalum are optional);
  - Float stops: PTFE;
  - End fittings: Anodized aluminum, 316 SS or brass;
  - Packings: Fluoroelastomer;
  - O-rings: Buna-N on aluminum models and brass models, and fluoroelastomer on SS models.
- Temperature Limits: 250°F (121°C).
- Pressure Limits: 200 psig (13.8 bar). Accuracy: ±2% FS @ 70°F (21.1°C) and 14.7 psia (1 atm absolute).
- VA1042, VA1243, VA1343, VA25425, VA25025: ±5% FS @ 70°F (21.1°C) and 14.7 psia (1 @ absolute).
- Repeatability: ±0.25% full scale.
- Scales: Universal 65 mm or 150 mm with correlation charts.
- Turn-down Ratio: 10:1.
- Connections: Two 1/8˝ female NPT.
- Mounting: Vertical.
- Valve: 6-turn needle (standard), optional 16-turn high precision valve.
- Valve Orifice: Acetal on aluminum models and brass models, PCTFE on stainless steel models.

Model (150 mm Scale) | Max. Flow (Air) scfh | Max. Flow (H2O) gph
--- | --- | ---
VA20429, VA22429, VA23429: ±5% FS @ 70°F (21.1°C) and 14.7 psia (1 atm absolute).
VA20429, VA22429, VA23429: ±5% FS @ 70°F (21.1°C) and 14.7 psia (1 atm absolute).
VA20429, VA22429, VA23429: ±5% FS @ 70°F (21.1°C) and 14.7 psia (1 atm absolute).
VA20429, VA22429, VA23429: ±5% FS @ 70°F (21.1°C) and 14.7 psia (1 atm absolute).
VA20429, VA22429, VA23429: ±5% FS @ 70°F (21.1°C) and 14.7 psia (1 atm absolute).
VA20429, VA22429, VA23429: ±5% FS @ 70°F (21.1°C) and 14.7 psia (1 atm absolute).

Accessories:

- VA81, High precision valve, 316 SS, 0.42 scfh capacity: $132.00
- VA82, High precision valve, 316 SS, 0.85 scfh capacity: $132.00
- VA83, High precision valve, 316 SS, 2.12 scfh capacity: $132.00
- VA84, High precision valve, 316 SS, 4.87 scfh capacity: $132.00
- VA85, High precision valve, 316 SS, 13.14 scfh capacity: $132.00
- VA86, High precision valve, 316 SS, 45.55 scfh capacity: $132.00
- VA7, Acrylic tripod for single meter: $54.00