

A circular inset image showing a close-up of industrial piping and valves, with a yellow safety line running across the scene.

Varea-Meter® Flowmeters

for Metering and Controlling
Flows of Process Fluids



Our broad line of rotameter-type flowmeters provides reliable readout, transmission, and control of liquids or gases for most industrial process applications.

For low-capacity, low-pressure applications we offer glass tube purge meters with stainless steel frames. Purge meters are designed for purging instruments, cases, and control lines, and are readily adapted to liquid-level indication, sampling, liquid-specific gravity determination, and similar applications. For low-flow, higher-pressure applications, armored purge meters are available. For high volume flows, glass-tube and metal tube meters are available in a variety of sizes and configurations for metering both air and liquid.

Product Descriptions



Glass-Tube, Stainless-Frame Purge Meter

These glass-tube meters have a rugged stainless steel frame, available in 1½-inch and 3-inch scale lengths, and use a high-stability float for accurate, repeatable performance. Meters can be supplied with flow controllers and plastic bezels for flush mounting (not available with 1½-inch scale purge meter).

Request literature #CF.510.100.000.UA.PS



Arma-View® II Purge Meter

Low-flow, high-temperature and pressure applications available with optional 4-20mA transmitter and flow controller. An optional FM-approved hazardous location 4-20mA transmitter provides remote indication of flow rate. An optional purge-

type flow controller keeps flow constant regardless of pressure variations. It is offered in 316 stainless steel construction, for inlet and outlet configurations. It can be assembled to the meter or as a stand-alone in the process line.

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Armored Purge Meter

This armored purge meter operates over a 10:1 range. Scales are 1¼ inches long. The ½-inch meter has a GPH or SCFH scale; the ¾-inch meter, a GPM or SCFM scale. Each also has a percent scale. Construction of meter body is 316 stainless steel with Buna-N and TFE. Heavy-duty stainless steel construction ensures proper operation to 100 bar (1500 psi) and 400°F. At no time is the glass scale tube exposed to the process fluid. A stainless steel sheath encloses the O-ring-sealed glass tube. Flow switch available.

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Armored Flowmeter

This inexpensive, 5% accuracy flowmeter gives reliable flow indication of aggressive fluids at high temperatures and pressures (see Capacity Chart for pressure and temperature limits). Available options include a 4-20mA output flow signal and high/low alarm switch. Meter sizes (pipe connections) are 1/2-, 1-, 1 1/2-, and 2- inches with capacities to 492 lpm (130 gpm) water and 250 sccm (150 scfm) air at STP. Operating range is 10:1. Mounting is vertical in line with NPT female connections. All wetted parts are stainless steel (except polypropylene float); Buna-N, Viton® or EPR O-rings. The float has an encapsulated alnico magnet.

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Glass-Tube Varea-Meter® Flowmeter

These rotameters have a wide range of capacities and tube sizes. Metering accuracy is 2% of full scale over a 10:1 range (see Capacity Chart for pressure and temperature limits). Beaded-guide tubes are available with 5- or 10-inch scales. End fittings for vertical and horizontal connections come in NPT sizes. Choice of wetted parts materials such as 316 stainless, Kynar®, Buna-N, and Viton® give a good balance between cost and maximum corrosion resistance.

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Metal-Tube Varea-Meter® Flowmeter

The metal-tube Varea-Meter® flowmeter offers simple installation, calibration, and configuration while providing reliable long-term performance in gas or liquid service. Available in a variety of tube sizes (1/2-, 3/4-, 1-, and 1 1/2 inches) and flange facings and ratings, these flowmeters measure over a 10:1 range for aggressive fluids at high temperatures and pressures (see Capacity Chart for pressure and temperature limits). Metering accuracy is 2% of full scale. The standard tube-and-float material is 16 stainless steel; a Hastelloy® C float is also available. Options include a 4-20 mA FM-approved hazardous locations transmitter for remote indication of flow rate. External alarm switches are available for high/low alarm.

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Accessories



Series 5700 General Purpose Flow Controller

Series 5700 General Purpose flow controllers are ideally suited for use on Armored Purge Meters, Armored Flow Meters, and Glass Tube Varea-Meter® units or as a stand-alone controller with other meter types.



Series 5750 and 5800 Purge Flow Controllers - High Pressure and Low Flow

Series 5750 purge-type flow controller is designed for control of low-volume flows. It can be assembled to purge meters or Arma-View® II meters or as a stand-alone in the process line.

The Series 5800 purge-type flow controller is engineered specifically for use with glass-tube purge meters.

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Electronic Transmitter

The Varea-Com™ transmitter provides linear 4-20 mA signal proportional to flow rate. The gasketed cast-aluminum case is compact, and rated NEMA® 4, and FM-approved for use in hazardous areas.

The transmitter is a smart, microprocessor-based, 2-wire, low-power unit. Its patented sensor with micro-processor controlled gain is capable of filling flow correction needs at the meter, providing accurate flow information remotely to external support systems. The patented magnetic sensor with automatic gain control enables a high dynamic capture range without sacrificing accuracy.

External Flow Switch

This optional compact switch gives reliable high- and/or low-flow switching. It contains a powerful, rotating magnet that responds linearly to float position. Its switches are long-life, hermetically-sealed reed types.

Almost frictionless rotation of the switch magnet and its powerful bond with the float magnet give a dependable magnetic coupling. Even under sudden flow surges, switching remains reliable. Switches can be set to open or close on increasing or decreasing flow. The flow switch is available as Series 5600, general purpose unit in a NEMA® 4X enclosure and Series 5500, UL® listed for hazardous locations.

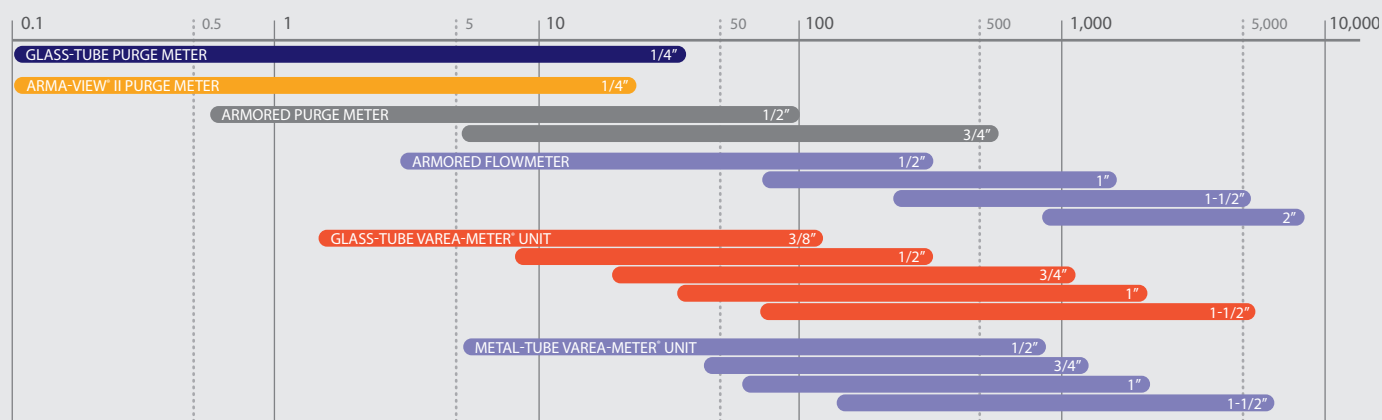


Liquid and Gas Flowmeters

			Accuracy ±Full Scale (10:1 Range)	Connections	Maximum Operating Pressure	Maximum Operating Temperature
Glass-Tube Purge Meters		Stainless-Frame General purpose measurement of low-volume flows.	10%	Horizontal ¼-in. FNPT	17 bar (250 psi)	121° C (250° F)
Armored Low-Flow Meters		Arma-View® II Purge Meters Measures extra low-volume flows of aggressive fluids at high pressure.	5%	Horizontal ¼-in. FNPT	100 bar (1500 psi)	204° C (400° F)
		Armored Purge Meter Measures low-volume flows of aggressive fluids at high pressure and temperatures.	10%	Horizontal ½-, ¾-in. FNPT	100 bar (1500 psi)	204° C (400° F)
Armored Flowmeters		Stainless-Body Low-cost, all-metal meter for flow indication and flow switching of aggressive fluids at higher pressures and temperatures.	5%	Vertical ½-, 1-, 1½-, 2-in.	100 bar (1500 psi)	93° C (200° F) air 204° C (400° F) water
Glass-Tube Varea-Meter® Flowmeters		Stainless-Frame For accurate flow measurements of fluids in applications where a glass tube is acceptable.	2%	Vert. or Horiz. ½-, 1-, 1½-, 2-in. FNPT	20 bar (300 psi)	93° C (200° F)
Metal-Tube Varea-Meter® Flowmeters		Metal-Tube For metering aggressive fluids accurately at high pressures and temperatures.	2%	Vertical ½-, 1-, 1½-in. 150, 300 lb. Flange	82 bar (1200 psi)	316° C (600° F)

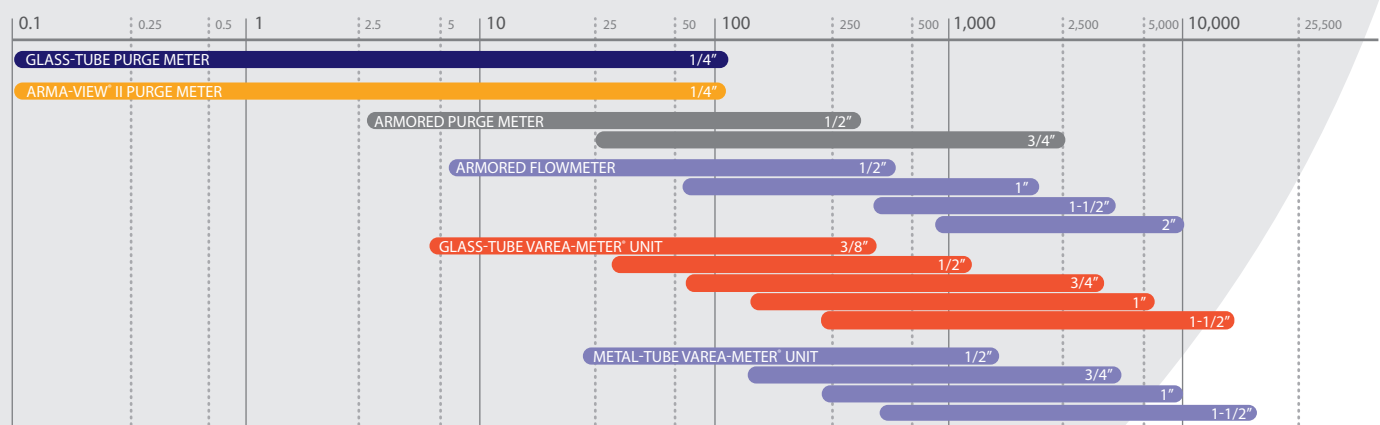
Liquid Capacity Chart

GPH Capacities - Meter Type and Size



Gas Capacity Chart

SCFH Capacities - Meter Type and Size





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