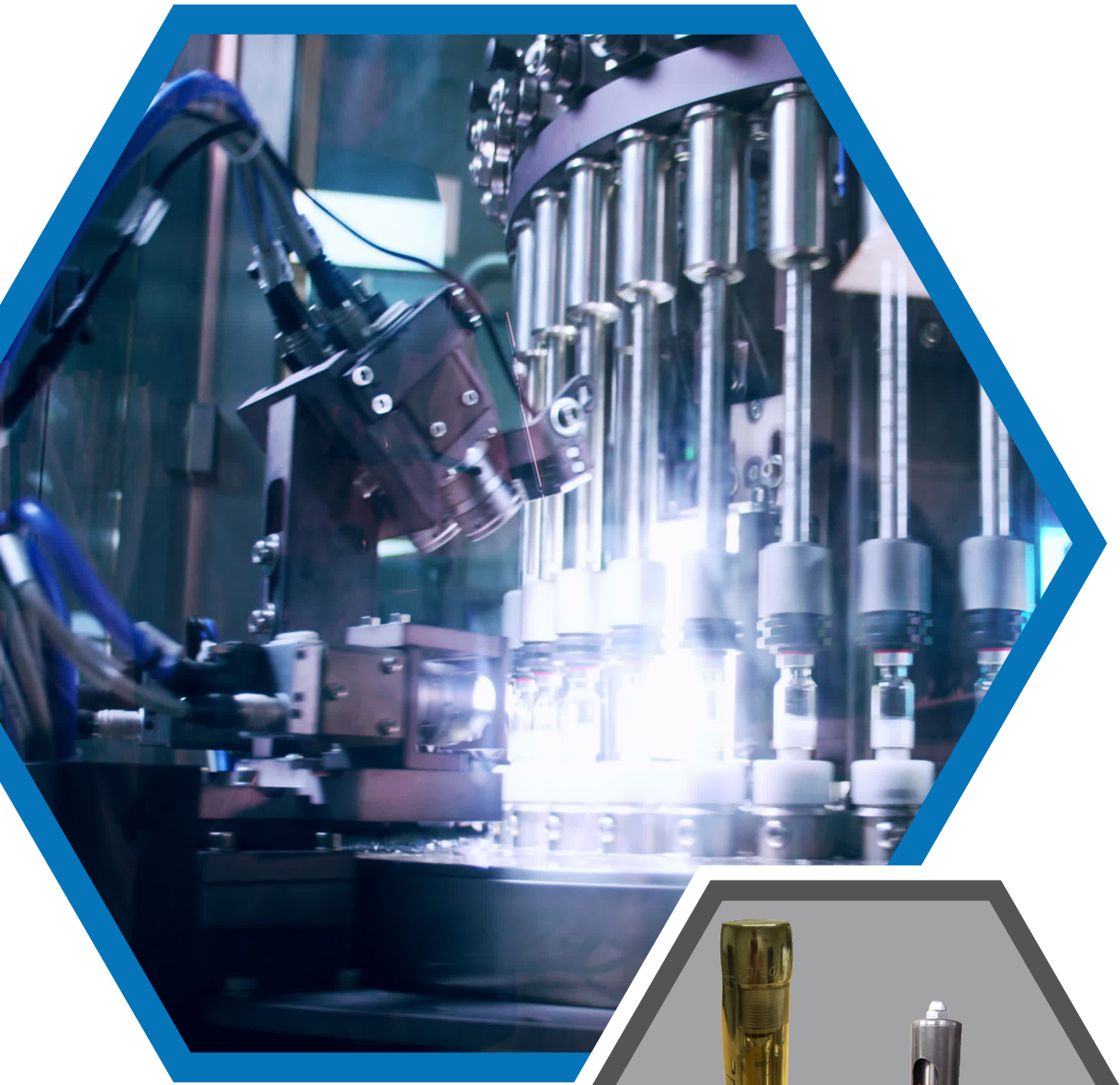
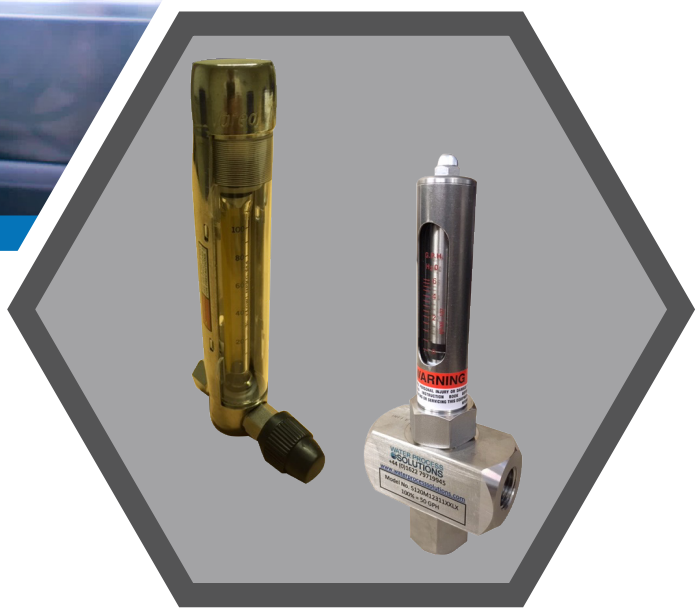
WATER PROCESS SOLUTIONS

General Varea Meters Flowmeters

Sales Literature No. WPSSL01907





Product Descriptions

Our broad line of rotametertype 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-specifc gravity determination, and similar applications. For low flow, higher pressure applications, armoured 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.

Glass-Tube, Stainless-Frame Purge Meter
These glass-tube meters have a rugged stainless steel frame, available in 1-½ 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 1-½ inch scale purge meter).

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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 standalone in the process line.

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Armoured Purge Meter
This armoured purge meter operates over a 10:1 range. Scales are 1-¼ 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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Armoured Flowmeter

This inexpensive, 5% accuracy flowmeter gives reliable flow indication of agressive 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 ½-, 1-, 1½-, 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 oat); 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 longterm performance in gas or liquid service. Available in a variety of tube sizes (½, ¾, 1, and 1-½ inches) and flange facings and ratings, these flowmeters measure over a 10:1 range for agressive 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 316 stainless steel; a Hastelloy® C float is also available. Options include a 4-20 mA FMapproved 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-ComTM transmitter provides linear 4-20 mA signal proportional to flow rate. The gasketed cast-aluminum case is compact, and rated NEMA® 4, and FMapproved for use in hazardous areas. The transmitter is a smart, microprocessor-based, 2-wire, lowpower unit. Its patented sensor with micro-processor controlled gain is capable of signalling 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 1⁄4 in. FNPT	17 bar (250 psi)	
Armored Low-Flow Meters	 **Arma-View® II Purge Meters** Measures extra low-volume flows of a ressive uids at high pressure.	5%	Horizontal 1⁄4 in. FNPT	100 bar (1500 psi)	204° C (400°F)
	 **Armored Purge Meter** Measures flow-volume flows of a ressive fluids at high pressure and temperatures.	10%	Horizontal 1⁄2, 3⁄4-in. FNPT	100 bar (1500 psi)	204° C (400°F)
Armored Flowmeters	 **Stainless-Body** Low-cost, all-metal meter for ow indication and ow switching of a ressive uids at higher pressures and temperatures.	5%	Vertical 1⁄2 1-, 1 1⁄2-, 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 uids in applications where a glass tube is acceptable.	2%	Vert. or Horz. 1⁄2-, 1-, 1 1⁄2-, 2-in. FNPT	20 bar (300 psi)	93° C (200°F)
Metal-Tube Varea-Meter® Flowmeters Metal-Tube Varea-Meter® Flowmeters	 **Metal-Tube** For metering a ressive fluids accurately at high pressures and temperatures.	2%	Vertical 1⁄2, 1-, 1 1⁄2-in. 150, 300 lb. Flange	20 bar (300 psi)	316° C (600°F)

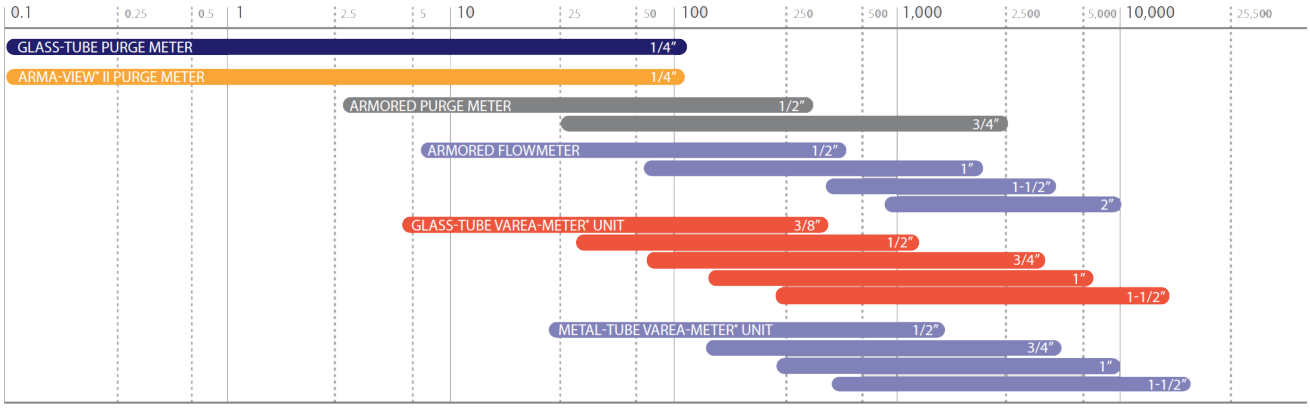
Liquid and Gas Flowmeters (Cont'd)

Liquid Capacity Chart

GPH Capacities - Meter Type and Size

Gas Capacity Chart

SCFH Capacities - Meter Type and Size



www.waterprocesssolutions.com
enquiries@waterprocesssolutions.com

Water-Process-Solutions

@waterwps

Water Process Solutions Ltd
Unit 10,
Mill Hall Business Estate,
Aylesford,
Kent, ME20 7JZ

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