



ABB MEASUREMENT & ANALYTICS

ABB variable area flowmeters

Reliable, flexible, simple
and cost effective



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Reliability

There are many ABB VA meters still operating after 30, 40 and even 50 years or more. Why?

- ABB's VA meters are renowned for being the highest quality available
- They last longer, with millions installed since 1937, when Fischer & Porter launched their first variable area flowmeter
- Our trouble-free operation ensures years of accurate flow measurement

Excellent repeatability yields consistent products

Flexibility

ABB's VA meters are found in almost every application and industry, with millions sold over the years. Why?

- ABB's VA meters can be used to measure a wide variety of liquids, gases and steam
- They require no power and can be used anywhere
- ABB's VA meters are easily converted to measure different fluids and capacities
- They are available with alarms, transmitted output and even HART communications

VA Master in high pressure methanol injection application



PurgeMaster 10A6100 in liquid sampling panel



Variable area flowmeters

Proven in millions of applications

Simplicity

ABB's VA meters are still popular for many flow applications after all these years. Why?

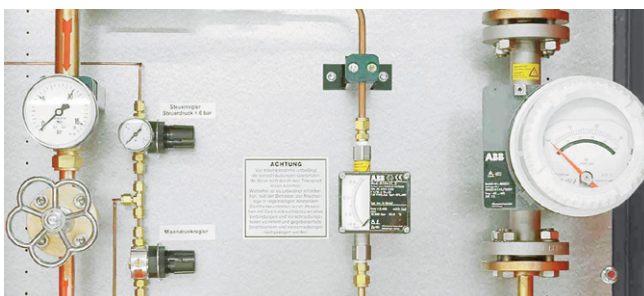
- They are pre-calibrated before they leave the factory
- Once delivered they are very easy to install
- Maintenance is very simple due to their excellent design
- ABB's VA meters have common parts minimizing stocking requirements

Cost effectiveness

Many are discovering that ABB VA meters provide cost-effective flow measurement for many of their applications. Why?

- All ABB VA meters are low cost compared to other flow measurement devices
- In addition they have very low installation costs; no upstream/downstream straight piping requirements
- Plus their reliability combines for an extremely low cost of ownership
- Long life expectancy also brings low life-cycle cost

VA Master FAM540 and FAM3200 in gas sampling armature



VA Master FAM540

Versatile

The armored VA meter is ideal for the chemical, pharmaceutical and food industries.

It is exceptionally successful metering aggressive or opaque fluids, or where glass tube variable area flowmeters are not appropriate for safety reasons.

- Short, straight-through design for easy installation
- Optional PTFE lining and PTFE float for maximum corrosion resistance
- Optional: 4 to 20 mA transmitter output, minimum $\pm$ /or maximum alarms, graphical display, HART communications

Typical industry applications

- Deionization, water purification, waste water treatment
- Gas sampling systems, nitrogen generators
- Power utility applications, cooling water, burner control
- Corrosive liquids, chemical injection
- Food and beverage applications



Armored purgometer FAM3200

Robust

Suitable for most low flow, high pressure and corrosive applications in municipal and industrial settings.

Used for gas analyzer systems, various sampling systems, and situations where glass meter tubes are not appropriate for safety reasons.

- Measures even dirty and corrosive gases or liquids
- Optional: 4 to 20 mA transmitter output, minimum $\pm$ /or maximum alarms

Typical industry applications

- Water purification
- Gas sampling systems, nitrogen generators
- Burner control
- Chemical injection
- Food and beverage applications



PurgeMaster 10A6100

Flexible

Ideal for many low flow rate applications, such as purging control lines and instrument enclosures.

Excellent for fluid sampling, liquid specific gravity, level measurements and other low flow applications.

- Simple snap-in tube construction minimizes downtime for cleaning and replacement
- Internal backcheck to restrict backflow and draining when tube is removed
- Optional one or two bi-stable alarms for contact closure (or opening) on rising or falling flow

Typical industry applications

- Aeration
- Gas sampling systems
- Burner control
- Level measurement
- Purging applications



VA Master glass tube meters

Universal

Used for a wide variety of liquids and gases in most industrial processing facilities.

Monitors all kind of industrial gas flows, cooling fluids to protect equipment, sampling systems in laboratories and flow rates into and out of large tanks.

- Easy range change and cleaning-no removal from the line required
- Excellent visibility of flow rate over a 12½ to 1 range on a linear scale
- Optional one or two bi-stable alarms for contact closure (or opening) on rising or falling flow

Typical industry applications

- Aeration
- Gas sampling systems, nitrogen generators
- Burner control
- Corrosive liquids
- Food and beverage applications



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