



POSITIVE DISPLACEMENT FLOW METERS & ELECTRONICS

POSITIVE DISPLACEMENT FLOW METERS FROM AW-LAKE:

The AW-Lake line of Positive Displacement flow meters have been the industry-standard flow meters for low flow applications, for example chemical injection, paint & adhesives, hydraulics, cylinder positioning, and hot melt, among others. The reasons companies standardize on our meters are simple:

Exceptional Quality: Our manufacturing facilities maintain the highest quality standards and superior machining technology. Our meters are calibrated to the highest specifications of NIST or ISO 17025.

Ability to Customize: Are you measuring a very specialized fluid that requires special materials of construction? Do you need to fit meters into tight spaces? Is there a need for specialized electronics? Our engineers are here to design a custom flow measurement system for you.

Industry Experience: We have been in the trenches with our customers... we understand their unique environments, challenges, and requirements. A purchase from AW-Lake comes with flow measurement expertise and industry experience to make the process as smooth as possible.

Global Support: With offices in the US, Europe, China and Singapore, we are strategically positioned to support our customers around the globe.



POSITIVE DISPLACEMENT FLOW METERS



JV-CG — SPUR GEAR FLOW METER

JV-CG Positive Displacement Meter is ideal for highly accurate, yet cost-effective metering of paints and industrial fluids.

Measuring Accuracy: $\pm 0.5\%$ over 10:1 turndown w/ 30cP fluid

Six Flow Ranges: 0.001 to 20.0 GPM

Pressure Rating: up to 5,000 psi

Temperature Rating: Depends on sensor used, refer to sensor technical guide.

Body Materials: 303 or 316 stainless steel

EX Version: Explosion-Proof version available



JV-KG — SPUR GEAR FLOW METER

JV-KG Positive Displacement Meter is ideal for measuring oil, fuel, polyurethane, brake fluid, Skydro[®] and other non-abrasive, low- to mid-viscosity lubricating fluids.

Measuring Accuracy: $\pm 0.5\%$ over 10:1 turndown w/ 30cP fluid

Six Flow Ranges: 0.003 - 120 gpm (4.32-172,800 gpd)

Pressure Rating: up to 5,000 psi

Temperature Rating: Depends on sensor used, refer to sensor technical guide.

Body Materials: 303 aluminum and 316 stainless steel

EX Version: Explosion-Proof version available

SPECIALITY POSITIVE DISPLACEMENT FLOW METERS



SUBSEA SPUR GEAR FLOW METER

Our Subsea Positive Displacement Meters are available in a wide variety of flow ranges and electrical outputs, as well as a variety of exotic materials for highest corrosion resistance and material compatibility. Electronics are bolted on and sealed to withstand external pressures and temperatures.

Measuring Accuracy: $\pm 0.5\%$ over 10:1 turn down

Working Pressure: Internal up to 15,000 psi
External up to 8,700 psi

Flow Ranges: 0.001 GPM to 70 GPM @1 cP

Water Temperature: As low as -40°F

Temperature Rating: Depends on sensor used, refer to sensor technical guide.

Turn down: 400:1 with linearization

Analog Sensor: 4-20 mA, pulse, HART®, Modbus, Foundation Fieldbus



JVHS — HIGH PRESSURE SPUR GEAR FLOW METER

JVHS High Pressure Positive Displacement Meter works extremely well under high pressure. Ideal for measuring oil, fuel, additives & chemicals in hazardous area rated and non-hazardous environments, such as oil production platforms, land-based oil recovery sites, & chemical processing plants.

Measuring Accuracy: $\pm 0.5\%$ over 10:1 turn down $\geq 30\text{cP}$

Three Flow Ranges: 0.003 to 7 GPM

Pressure Rating: up to 15,000 psi

Temperature Rating: Depends on sensor used, refer to sensor technical guide.

Body Material: 316 stainless steel

EX Version: Explosion-Proof version available



MICROFLOW — LOW FLOW SPUR GEAR FLOW METER

MicroFlow Positive Displacement Meter is ideal for flow measurement of low and medium viscosity fluids (solvents, polyurethanes, oils and other non-abrasive fluids) at very low flow rates, as in chemical injection.

Measuring Accuracy: $\pm 0.5\%$ over 10:1 turn down $\geq 3\text{cP}$

Flow Range: 0.0005 to 0.25 GPM

Pressure Rating: up to 5,000 psi

Temperature Rating: Depends on sensor used, refer to sensor technical guide.

Body Material: 316 stainless steel

EX Version: Explosion-Proof version available



SLG — COMPACT SPUR GEAR FLOW METER

SLG Compact Positive Displacement Meter is ideal for measuring paints & coatings, especially where robotics are utilized or when space is limited.

Measuring Accuracy: $\pm 0.5\%$ over 10:1 turn down $\geq 30\text{cP}$

Three Flow Ranges: 0.003 to 2 GPM

Pressure Rating: up to 2,000 psi

Temperature Rating: Depends on sensor used, refer to sensor technical guide.

Body Material: JVS: 316 stainless steel (2,000 psi max)

Intrinsically Safe Sensors Available

POSITIVE DISPLACEMENT FLOW METERS



JVK — PLASTIC SPUR GEAR FLOW METER

JVK Plastic Positive Displacement Meter is ideal for measuring chemicals, including the strongest of chemicals such as acid, caustic-based fluids and corrosives.

Measuring Accuracy: $\pm 1\%$ over a 10:1 turn down $\geq 30\text{cP}$

Flow Range: 0.1 to 7 GPM

Pressure Rating: up to 500 psi

Temperature Rating: Up to 110°F

Body Materials: Kynar® body with ceramic bearings



ZHM — SPUR GEAR FLOW METER

ZHM Positive Displacement Meter is ideal for measuring the flow rates multi-viscosity fluids, as well as abrasive fluids and fluids under high pressure, such as paints, coatings, waxes, epoxies, sealants and oils.

Measuring Accuracy: $\pm 0.5\%$ over 10:1 turn down $\geq 30\text{cP}$

Ten Flow Ranges: 0.001 to 265 GPM

Pressure Rating: up to 6,000 psi

Temperature Rating: Depends on sensor used, refer to sensor technical guide.

Body Material: 303 stainless steel (standard)

**Contact factory for other materials available*

EX Version: Explosion-Proof version available

HELICAL GEAR METERS



SRZ — ULTRA/HIGH RESOLUTION HELICAL GEAR FLOW METER

SRZ STAT-HR High Res Helical Gear Meter ideal for highly filled and abrasive fluids, such as polyurethanes and polymers, glues and sealing materials, as well as heavy fuel oils.

Measuring Accuracy: $\pm 0.5\%$ over of reading $\geq 30\text{cP}$

Flow Ranges: 0.1 to 105 GPM (STAT model)
0.1 to 2.0 GPM (HR model)

Pressure Rating: up to 6,000 psi

Temperature Rating: Up to 160°F

Two Models: STAT – High Resolution
HR – Ultra High Resolution

Body Material: 303 stainless steel



SRZ — HELICAL GEAR FLOW METER

SRZ Helical Gear Meter is ideal for highly filled and abrasive fluids, such as polyurethanes and polymers, glues and sealing materials, as well as heavy fuel oils.

Measuring Accuracy: $\pm 0.5\%$ over of reading $\geq 30\text{cP}$

Three Flow Ranges: 0.1 to 105.0 GPM

Pressure Rating: up to 6,000 psi

Temperature Rating: Depends on sensor used, refer to sensor technical guide.

Body Material: 303 stainless steel

INDUSTRIAL PROCESS DATA MANAGEMENT

Today's industrial environments are under increasing pressure to accurately measure and report usage, waste, status, and condition of their process materials and capital equipment. At AW-Lake, we understand this pressure and the importance of getting your data where you need it and in the format you need it in so you can record, report, analyze and make adjustments and decisions based on it. We continually strive to develop tools to help make this process easier for you. As technology changes, so do the data requirements. We provide sensors with the output you want – frequency, analog, voltage, Modbus or HART. Setup and trouble-shooting is made easier through the use of our PC and mobile apps. Our transmitters, displays and controllers include hazardous area rated, batch control and ratio monitoring units.

COMPATIBLE ELECTRONICS

We offer a complete line of compatible electronics, including local and remote displays, explosion-proof displays, closed loop controllers and batch controllers.



▶ MX 9000 — Panel Meter

- Rate, total & limit
- Batch control (up to 20 batches) or ratio monitor
- Built in 30-point linearizer
- Single or dual channel
- USB port for remote programming & data logging
- Two programmable Form C Relay outputs
- Assignable 4-20 mA output
- Industrial enclosure available with numerous options



Industrial Enclosure System



▶ RT-50 Battery-Powered Flow Rate Transmitter

- Bluetooth connectivity for easy setup and monitoring from a mobile device
- Resettable Total and Grand Total
- Quick menu navigation
- Flow filtering
- Real-time clock
- Contract time
- 10-point linearization



▶ FlowPod — Local Display

- 2 or 4 wire
- 2 sensing options
- Tool-free assembly
- Rotatable through 360° display
- Low Maintenance
- Explosion-Proof version available (CSA, ATE, IECEx)



▶ RT-30 SD & EX Transmitters with Local Display

- CSA explosion-proof rating available
- 15-24 VDC supply
- Built in 30 point linearizer
- HART® communication protocol
- 4-20 mA rate and scaled pulse outputs
- Programmable outputs

FLOW SENSORS & SIGNAL CONDITIONERS



Outputs:

- Pulse Output (sinking & sourcing)
- Analog Outputs (0-5 VDC, 0-10 VDC, and 4-20 mA)

Sensor Types:

- Analog
- Hall-Effect
- Carrier Frequency
- Inductive
- Fiber Optic

Options Include:

- Bluetooth
- Modbus
- Quadrature
- Current or Voltage
- CSA, ATEX or IECEx
- High Temperature Version up to 600°F (stainless steel meters only)
- Frequency-to-Analog Conversion
- Pulse Amplification

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