



**AW-LAKE**  
PROCESS FLOW MEASUREMENT



## POSITIVE DISPLACEMENT FLOW METERS & ELECTRONICS

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## 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.



## SPUR GEAR POSITIVE DISPLACEMENT FLOW METERS



### JV-BB — SPUR GEAR FLOW METER

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

**Measuring Accuracy:**  $\pm 0.5\%$  over full range with 30cP fluid,  $\pm 0.25\%$  optional with select sensors

**Six Flow Ranges:** 0.005 - 120 gpm (7.2-172,800 gpd)

**Pressure Rating:** up to 6,000 psi

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

**Body Materials:** aluminum, 303 or 316 stainless steel

**EX Version:** Explosion-Proof version available



### JV-TC — SPUR GEAR FLOW METER

JV-TC Positive Displacement Meter is ideal for non-lubricating fluids and medium-to-high viscosity fluids, like solvent-based paints, polymers, solvents, additives and adhesives. They are great for mixing applications, dosing, and consumption tracking.

**Measuring Accuracy:**  $\pm 0.5\%$  over full range with 30cP fluid,  $\pm 0.25\%$  optional with select sensors

**Six Flow Ranges:** 0.001 to 20.0 GPM

**Pressure Rating:** up to 6,000 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

## SPECIALITY POSITIVE DISPLACEMENT FLOW METERS

### JV-UF — LOW FLOW SPUR GEAR FLOW METER



JV-UF 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:**  $\pm 1.5\%$  over full range (viscosity  $\geq 5\text{cP}$ ),  $\pm 0.5\%$  optional with select sensors:  $\pm 2.5\%$  over full range (viscosity  $\geq 5\text{cP}$ ) for the JV-01UF

**Six Flow Ranges:** 0.0005 - 20 gpm (0.72-28,800 gal/day)

**Pressure Rating:** up to 6,000 psi

**Body Material:** 303 or 316 stainless steel

**EX Version:** Explosion-Proof version available

### JVH — HIGH PRESSURE SPUR GEAR FLOW METER



JVH 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 full range with 30cP fluid

**Six Flow Ranges:** 0.001 - 20 gpm | 1.4-28,800 gpd

**Pressure Rating:** Up to 15,000 psi | 1035 bar

**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:** 0.005 to 2 GPM

**Pressure Rating:** up to 2,000 psi

**Temperature Rating:** 350°F (180°C)

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

**Intrinsically Safe Sensors Available**

### 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 (1035 bar); External up to 8,700 psi (600 bar)

**Flow Ranges:** 0.001 GPM to 7 GPM @30 cP

**Water Temperature:** As low as -40°F

**Temperature Rating:** Depends on sensor used, contact factory.

**Turn down:** 400:1 with linearization

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

## SPECIALTY POSITIVE DISPLACEMENT FLOW METERS



### JVK — KYNAR® SPUR GEAR FLOW METER

JVK Kynar® 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

**Flow Range:** 0.1 to 7 GPM

**Pressure Rating:** up to 500 psi

**Temperature Rating:** 50°F to 110°F (10°C to 43°C)

**Body Materials:** Kynar® body with ceramic bearings

## HELICAL GEAR FLOW METERS

### SRZ-BB — HELICAL GEAR FLOW METER



SRZ-BB Helical PD flow meters with stainless steel housing and ball bearings were designed for measuring lower viscosity, non-abrasive fluids, such as in lubrication systems.

**Measuring Accuracy:**  $\pm 0.5\%$  over full range with 30cP fluid

**Flow Ranges:** 0.1 to 10.6 gpm | 0.26 to 26.4 gpm | 1.1 to 105.7 gpm

**Pressure Rating:** 4,500 psi | 315 bar

**Temperature Rating:** -40°F to 302°F (-40°C to 150°C)

**Body Material:** 303 stainless steel or 316L Stainless Steel

### SRZ-TC — HELICAL GEAR FLOW METER



SRZ-TC 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 full range with 30cP fluid

**Three Flow Ranges:** 0.1 to 10.6 gpm | 0.26 to 26.4 gpm | 1.1 to 105.7 gpm

**Pressure Rating:** 4,500 psi | 315 bar

**Temperature Rating:** -40°F to 302°F (-40°C to 150°C)

**Body Material:** 303 stainless steel or 316L Stainless Steel

### SRZ-H — ULTRA/HIGH RESOLUTION HELICAL GEAR FLOW METER



SRZ-H 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. They are well suited to small shot and dosing applications.

**Measuring Accuracy:**  $\pm 0.5\%$  over full range with 100cP fluid

**Linear Flow Range:** 0.1 to 10.6 gpm (optional extended range 0.01 to 2.0 gpm)

**Pressure Rating:** up to 6,000 psi | 414 bar

**Temperature Rating:** -40 to 158°F (-40 to 70°C)

**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 when and in the format you need it 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 troubleshooting 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.

## RECOMMENDED FLOW SENSOR



### ▶ EDGE Sensor

- Single user interface and tools with Bluetooth app and PC Toolkit
- Pulse, Analog or Modbus outputs
- Linearization allowing wider flow range for all meters
- Field upgradeable
- Set your output preferences: Push/Pull, Sinking/Sourcing, Freq/Analog/Modbus
- Force outputs for setup or verification



### ▶ HUB-40 SD & EX

- Explosion-Proof versions available (CSA, ATE, IECEx)
- Frequency (square wave with 50% duty cycle)
- NEMA 4X enclosure
- Easy thread-in installation with integrated swivel union for easy wiring

## COMPATIBLE ELECTRONICS

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



### ▶ 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



### ▶ MX 9000 Panel Meter

- Rate, total & limit
- 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



### ▶ RT-30 SD & EX Transmitters with Local Display

- CSA & ATEX 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

### Other Sensors Options Include:

- Fiber Optic
- Quadrature
- High Temperature Version up to 400°F (stainless steel meters only)
- Frequency-to-Analog Conversion

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