

Positive Displacement Spur Gear Flow Meter

Ideal for measuring paints & coatings, especially where robotics are utilized or when space is limited.

Applications:

In production environments like the automotive industry, a lot of pressure is on line components. While performing under a variety of harsh, fast-paced conditions, flow meters in particular have to be rugged, accurate, and easy to install.

AW Gear Meters exceeds these demands with its SLG Series Positive Displacement Flow Meters. These stainless steel meters feature small, light bodies, perfect for installation on robotic arms and in other tight areas. Flow meter construction incorporates virtually no "dead space," which allows for extremely efficient flush cycles and worry-free color changes.

Features:

- Three flow ranges from 0.003 to 2.0 GPM
- Accuracy: up to 0.5% of reading
- Pressure rating up to 2,000 PSI
- Stainless steel body
- Manifold mount or threaded port
- Intrinsic safe sensor for US/Canada
- Fiber optic or carrier frequency pulse output sensors

Benefits:

STRONG, COMPACT DESIGN

The SLG's solid stainless steel construction and compact size make this meter ideal for robotic applications where there is limited space, weight restrictions and vibration from movement.

SIMPLE TO INSTALL & USE

These meters are easy to use and install, since there is no need for straight run piping upstream or downstream of the flow meter.

ACCURATE AND RELIABLE

This meter has the ability to maintain consistent accuracy despite changing viscosity conditions, with accuracy of +0.5% of reading.

FLEXIBLE

Meter may be used in applications requiring bi-directional flow, and is offered in three different flow ranges (0.003 to 2.0 GPM).



Technical Specifications:

- **Four flow ranges:**
0.003 to 0.5 gpm
0.01 to 1.0 gpm
0.02 to 2.0 gpm
- **Working pressure:** up to 2,000 psi
- **Accuracy:** $\pm 0.5\%$ over 10:1 turndown with 30cP fluid
- **Repeatability:** $\pm 0.1\%$
- **Max Fluid Temperature:**
350°F (180°C)
- **Ports:** bottom ported through hole or 1/8" BSPP – specify upon ordering

Materials of Construction:

- **Body:**
HPM: 303 stainless steel (500 psi max)
JVS: 316 stainless steel (2,000 psi max)
- **Gears:** DIN 1.4122
- **Seal:**
HPM: PTFE gasket
JVS: PTFE O-ring
- **Bearings:** tungsten carbide

Positive Displacement Spur Gear Flow Meter

Meter Data:

Meter Size	Flow Range (GPM)	Impulses/ Gallon	Impulses/ cc	Weight (Lbs / Kg)	Ports	Filtration (microns)	Pressure Rating
JVS-10SLGS	0.003-0.5	100,300	26.5	2.75 / 1.25	1/8" BSPP	120	2,000 psi
JVS-10SLGFS	0.003-0.5	100,300	26.5	2.75 / 1.25	6 mm (not threaded)	120	2,000 psi
JVS-15SLGS	0.01-1.0	31,000	8.2	2.75 / 1.25	1/8" BSPP	120	2,000 psi
JVS-15SLGFS	0.01-1.0	31,000	8.2	2.75 / 1.25	6 mm (not threaded)	120	2,000 psi
JVS-20SLGS	0.02-2.0	15,900	4.2	3.0 / 1.36	1/8" BSPP	120	2,000 psi
JVS-20SLGFS	0.02-2.0	15,900	4.2	3.0 / 1.36	6 mm (not threaded)	120	2,000 psi
HPM-15SLGF*	0.01-0.5	31,000	8.2	2.5 / 1.13	6 mm (not threaded)	120	500 psi
HPM-15SLG*	0.01-0.5	31,000	8.2	2.5 / 1.13	1/8" BSPP	120	500 psi
HPM-20SLGF*	0.02-2.0	15,900	4.2	3.0 / 1.36	6 mm (not threaded)	120	500 psi
HPM-20SLG*	0.02-2.0	15,900	4.2	3.0 / 1.36	1/8" BSPP	120	500 psi

* Titanium coated gears available for water based fluids.



A common application for the SLG Gear Meter is in robotic paint lines in the automotive industry.

Recommended Sensors:

Sensor Type	Model	Sensor Features
Single sensor	CAPM-3o	Intrinsically safe, frequency output (when used with a barrier)
Fiber Optic System (includes the following:)	FOP 30/S	
Fiber optic sensor	FOP-30	Fully isolated optical signal, intrinsic safe
Light-to-frequency converter	OPTV-20	Converts optical output to frequency output
Standard heavy-duty fiber optic cable	Fiber optic cable	Available in 30, 40, 60 & 100 foot lengths

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