

# MICROFLOW - POSITIVE DISPLACEMENT GEAR METER

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.



## APPLICATIONS

AW Gear Meters offers these spur gear positive displacement flow meters that are suitable for a variety of applications:

- Chemical injection skids
- Fuel & solvent measurement
- Liquid seal bead dispensing
- Cylinder position measurement
- Batching
- Low flow applications to 2 cc/min (0.0005 gal/min)

## TECHNICAL SPECIFICATIONS

### Measuring Accuracy

± 0.5% or better, 10:1, ≥30cP

### Flow Measuring Range

0.0005 to 0.25 gal/min

### Maximum Operating Pressure

5,000 psi

### Maximum Fluid Temperature

Depends on sensor used, refer to sensor tech guide.

### Repeatability

± 0.1%

### NPT Female Ports

### Bi-directional flow capability

### Certifications

ATEX approved, non-sparking, CSA Class 1, Div. 1

## BENEFITS

### Accurate & Reliable

This meter has the ability to maintain consistent accuracy despite changing viscosity conditions, with accuracy of +0.5% of reading or better. Low friction gears and bearings allow for accurate measurement of low viscosity fluids, down to 1cP (custom calibration recommended).

### Rugged Construction

This PD meter's solid construction of 316 stainless steel body and stainless steel gears & bearings stand up to the most rugged environments.

### Flexible

Meter may be used in applications requiring bi-directional flow.

### Simple to Install & Use

Installation is easy because there is no need for straight run piping upstream or downstream of the flow meter.

### Certified

Sensors are available with ATEX non-sparking or CSA Class I, Div. 1.

## MATERIALS OF CONSTRUCTION

<b>Body</b>	316 Stainless Steel
<b>Gear &amp; Ball Bearings</b>	Stainless Steel
<b>O-Ring</b>	PTFE (other options available)
<b>Shaft</b>	420 C Stainless Steel

## RECOMMENDED SENSORS

Model	Sensor Type	Sensor Features
<b>EX Meters</b>		
HUB-40-Ex	Hazardous area rated sensor	CSA/CUS certified pulse output hall effect single sensor
RT-30Ex	Hazardous area rated flow transmitter	Rate & local display with 4-20mA analog output
<b>Non EX Meters</b>		
FIP-xx	Meter mounted analog output sensor	3-wire analog output, current or voltage
MAG-xx	Hall effect single sensor	Frequency output with conduit connection
RT-30SD	Local flow rate transmitter	Rate & local display with 4-20mA analog output

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## METER DATA

Meter Type	Range (gal/min)	Impulse/gallon	Impulse/cc	Diameter (inches)	Height (inches)	Weight (lbs)	Ports	Filtration (micron)	Pressure Rating (psi)
JVS-01UF-25-NPT	.0005-.25	151,300	40	3.3	2.2	4	1/4" NPT	<10	5000
JVS-01UF-25-NPT-EX	.0005-.25	151,300	40	3.3	2.2	4	1/4" NPT	<10	5000

