

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

| | |
|----------------------|--------------------------------|
| Body | 316 Stainless Steel |
| Gear & Ball Bearings | Stainless Steel |
| O-Ring | PTFE (other options available) |
| Shaft | 420 C Stainless Steel |

RECOMMENDED SENSORS

| Model | Sensor Type | Sensor Features |
|---------------|---------------------------------------|--|
| EX Meters | | |
| 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 |
| Non EX Meters | | |
| 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 |



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