

## Positive Displacement Spur Gear Flow Meter

Ideal for measuring oil, grease, fuel, additives and chemicals in hazardous area rated environments, such as oil production platforms, land-based oil recovery sites, chemical processing plants and laboratories.

### Applications:

The units in this line of AW flow meters are designed to maintain consistent accuracy – even in changing viscosity conditions. They have a solid construction and excellent dynamic response and are suitable for a variety of industrial applications, including:

- Chemical injection skids
- Fuel & solvent measurement
- Cylinder position measurement
- Pipeline additives

### Features:

- Six flow ranges from 0.003 to 120.0 GPM
- Accuracy: up to 0.5% of reading (0.2% with linearization electronics)
- Pressure rating up to 5,000 PSI
- Available in 303 and 316 stainless steel bodies

### Benefits:

#### **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.

#### **RUGGED CONSTRUCTION**

The solid construction of the JV-KGEX is offered in 303 and 316 stainless steel bodies.

#### **FLEXIBLE**

Meter may be used in applications requiring bi-directional flow, and is offered in six different flow ranges (0.003 to 120.0 GPM).

#### **ECONOMIC LOW FLOW METER**

The meters produce good resolution and high accuracy at low flow rates, offering an affordable replacement for older turbine technology.

\*viscosities above 30cP only



### Technical Specifications:

- **Six flow ranges:**
  - 0.003 to 0.8 gpm
  - 0.01 to 2.0 gpm
  - 0.03 to 7.0 gpm
  - 0.05 to 20 gpm
  - 0.5 to 60 gpm
  - 1.0 to 120 gpm
- **Working pressure:** up to 5,000 psi
- **Accuracy:**  $\pm 0.5\%$  over 10:1 turndown with 30cP fluid
- **Repeatability:**  $\pm 0.1\%$
- **Max Fluid Temperature:** Depends on sensor used, refer to sensor technical guide
- **Ports:** NPT
- **Sensor Port:** 3/8" NPT

### Materials of Construction:

- **Body:**
  - JVM – 303 stainless steel
  - JVS – 316 stainless steel
- **Gear and ball bearings:** stainless steel
- **O-Ring:** PTFE; FKM optional
- **Shaft:** 420 C stainless steel
- **Bushings:** tungsten carbide

## Positive Displacement Spur Gear Flow Meter

### Meter Data:

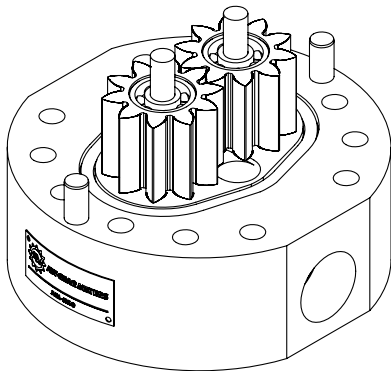
Meter Size	Flow Range (GPM)	Impulses/Gallon	Impulses/cc	Diameter (in)	Height (in)	Weight (Lbs / Kg)	Ports	Filtration (microns)	Pressure Rating
JV#-12KG-EX	0.003-0.8	53,000	14.0	3.0"	2.2"	3.9 / 1.77	1/4" NPT*	30	5,000 psi
JV#-20KG-EX	0.01-2.0	15,900	4.2	3.3"	2.2"	4.9 / 2.22	1/4" NPT*	30	5,000 psi
JV#-30KG-EX	0.03-7.0	6,600	1.7	3.3"	2.6"	5.8 / 2.63	1/2" NPT*	30	5,000 psi
JV#-60KG-EX	0.05-20.0	1,800	0.47	4.9"	4.25"	18 / 8.16	3/4" NPT*	30	5,000 psi
JV#-80KL-EX	0.5-60.0	1,600***	0.42***	8.4"	5.5"	78 / 35.38	1-1/4"***	200	5,000 psi
JV#-90KL-EX	1.0-120.0	800***	0.21***	8.4"	7.0"	97 / 44.91	1-1/4"***	200	5,000 psi

# - Complete part # by selecting body material as follows:  
M=303 Stainless Steel, S=316 Stainless Steel

\* - NPT port is standard, BSPP is available

\*\* - Through hole for 1-1/4" Code 62 flange connections

\*\*\* - When configured for x4 sensor output



### Optional 1-1/4" Code 62 Flanges (not included):

Code 62 flanges are available for the -80 KL and -90KL meters in 3 materials:

Flange	Weight (Lbs / Kg)
carbon steel	6 / 2.72
303 stainless steel	9 / 4.08
316 stainless steel	9 / 4.08



### Recommended Electronics:

Sensor Type	Model	Sensor Features
Hazardous area rated local flow rate transmitter	RT-30EX	Rate & total display with 4-20 mA analog output, HART® communication available*
Hazardous area rated sensor	HUB-40EX	CSA/CUS certified pulse output hall effect single sensor

\* For more information, see the RT-30EX data sheet.



◀ RT-30-EX



HUB-40-EX ▶

### Contact AW Gear Meters:

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Products may be subject to change without notice -  
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