

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 Temperature:** 400°F (meter only)
140°F (RT-EX & HUB-EX sensor)
- **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

Meter Data:

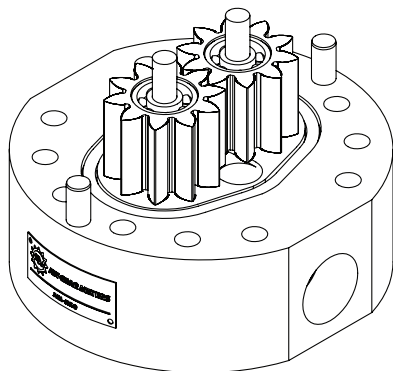
Meter Size	Flow Range (GPM)	Impulses/ Gallon	Impulses/ cc	Diameter (in)	Height (in)	Weight (Lbs / Kg)	Ports	Filtration (microns)	Pressure Rating
JV#-12KG-EX	0.003-0.8	53,000	14.0	3.0"	2.2"	3.9 / 1.77	1/4" NPT*	30	5,000 psi
JV#-20KG-EX	0.01-2.0	15,900	4.2	3.3"	2.2"	4.9 / 2.22	1/4" NPT*	30	5,000 psi
JV#-30KG-EX	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, BSP is available

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

*** - When configured for x4 sensor output



1-1/4" Code 62 Flanges:

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 ▶

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