

JV-KG POSITIVE DISPLACEMENT SPUR GEAR FLOW METER

Ideal for measuring oil, fuel, polyurethane, brake fluid, Skydrol and other non-abrasive, low- to medium-viscosity lubricating fluids.



BENEFITS

Simple to Install and 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 $\pm 0.5\%$ of reading.

Rugged Construction

The JV-KG's solid construction is offered in Aluminum, 303 and 316 stainless steel bodies.

Flexible

Meter may be used in applications requiring bi-directional flow, and is offered in four different flow ranges (0.003 to 20.0 GPM).

Economic Low Flow Meter

The meters produce good resolution and high accuracy at low flow rates, offering an affordable replacement for mag meters or oval gear meter technology.

*Viscosities above 30cP only

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.

Reliability combined with accuracy and a large turndown range, make these meters an attractive replacement for mag meters or oval gear meter technology. Applications well suited to the JV-KG meters include chemical injection, fluid monitoring on test stands, and measuring hydraulic positioning.

FEATURES

- Four flow ranges from 0.003 to 20.0 GPM
- Accuracy: up to 0.5% of reading
- Pressure rating up to 5,000 PSI
- Available in 303 and 316 stainless steel, as well as aluminum bodies

TECHNICAL SPECIFICATIONS

Measuring Accuracy

$\pm 0.5\%$ over 10:1 turndown with 30cP fluid

Repeatability

$\pm 0.1\%$

Flow Measuring Range

0.003 to 0.8 gpm / 4.32 to 1,152 gpd
0.01 to 2.0 gpm / 14.4 to 2,880 gpd
0.03 to 7.0 gpm / 43.2 to 10,080 gpd
0.05 to 20 gpm / 72.0 to 28,800 gpd

Maximum Operating Pressure

Up to 5,000 psi

Maximum Fluid Temperature

180°F (aluminum body)
400°F (stainless steel body with appropriate sensor)

Ports

60KG and smaller: NPT standard; BSPP available upon request

80KL & 90KL: 1-1/4" code 62 flange pattern standard; NPT, JIC & SAE flanges available upon request.

MATERIALS OF CONSTRUCTION

Body	JVA – Aluminum JVM – 303 Stainless Steel JVS – 316 Stainless Steel
Gears & Ball Bearings	Stainless Steel (contact factory for other options)
O-Ring	PTFE standard (contact factory for other options)
Shaft	420 C Stainless Steel

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METER DATA

Meter Size	Flow Range (GPM)	Impulses/Gallons	Impulses/CC	Diameter (in)	Height (in)	Weight (Lbs/Kg)	Ports	Filtration (microns)	Pressure Rating
JV#-12KG	0.003-0.8	53,000	14.0	3.0"	2.2"	JVA: 1.5 / 0.68 JVM: 3.9 / 1.77 JVS: 3.9 / 1.77	1/4" NPT	30	5,000 psi
JV#-20KG	0.01-2.0	15,900	4.2	3.3"	2.2"	JVA: 1.9 / 0.86 JVM: 4.9 / 2.22 JVS: 4.9 / 2.22	1/4" NPT	30	5,000 psi
JV#-30KG	0.03-7.0	6,600	1.7	3.3"	2.6"	JVA: 2.3 / 1.04 JVM: 5.8 / 2.63 JVS: 5.8 / 2.63	1/2" NPT	30	5,000 psi
JV#-60KG	0.05-20.0	1,800	0.47	4.9"	4.25"	JVA: 8.8 / 3.99 JVM: 18 / 8.16 JVS: 18 / 8.16	3/4" NPT	30	5,000 psi

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

RECOMMENDED SENSORS

Model	Sensor Type	Sensor Features
HEF-xx	Single sensor	Frequency output
DH-xx	Dual sensor w/ 2x resolution	Single or quadrature frequency output
MAG-Px	Hall effect single sensor	Frequency output, with conduit connection
FIP-xxx	Meter mounted analog output sensor	3-wire analog output, current or voltage
CAPM-xx	Single sensor	Frequency output (stainless steel models only)
CAPM-15	High temp sensor	Separated pickup & amplifier module, up to 400°F (stainless steel models only)
RT-50	Local Mount Transmitter	Display flow rate total & grand total & battery powered
RT-30	Local Mount Transmitter	4-20mA analog output, built-in 30-point linearization & displays flow rate total and grand total

Products may be subject to change without notice - Contact factory for the most up-to-date product information.

