

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 +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 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

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 older turbine technology.

FEATURES

- Six flow ranges from 0.003 to 120.0 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
- Pulse, mA and voltage output sensors available
- Non-intrusive sensors, panel mount displays, and electronic modules available

TECHNICAL SPECIFICATIONS

Measuring Accuracy

± 0.5% over 10:1 turndown with 30cP fluid

Repeatability

± 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
0.50 to 60 gpm / 720.0 to 86,400 gpd
1.0 to 120 gpm / 1,440 to 172,800 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

NPT; BSPP available -specify upon ordering

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, FKM Optional
Shaft	420 C Stainless Steel

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METER DATA

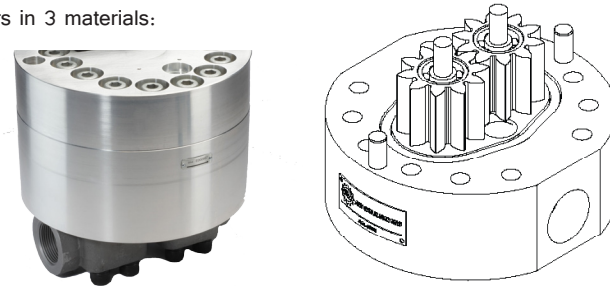
Meter Size	Flow Range (GPM)	Impulses/Gallons	Impulses/CC	Diameter (in)	Height (in)	Weight (Lbs/Kg)	Ports	Filtration (microns)	Pressure Rating
JV#-12KG	0.003-0.8	53,000	14.0	3.0"	2.2"	JVA: 1.5 / 0.68 JVM: 3.9 / 1.77 JVS: 3.9 / 1.77	1/4" NPT*	30	5,000 psi
JV#-20KG	0.01-2.0	15,900	4.2	3.3"	2.2"	JVA: 1.9 / 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
JV#-80KL	0.5-60.0	1,600***	0.42***	8.4"	5.5"	JVA: 32 / 14.52 JVM: 78 / 35.38 JVS: 78 / 35.38	1-1/4"***	200	5,000 psi
JV#-90KL	1.0-120.0	800***	0.21***	8.4"	7.0"	JVA: 37 / 16.78 JVM: 97 / 44.91 JVS: 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, A= Aluminum. * - 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

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 SENSORS

Sensor Type	Model	Sensor Features
Single sensor (standard)	HEF-xx	Frequency output
Dual sensor w/ 2x resolution	DH-xx	Single or quadrature frequency output
Hall effect single sensor	MAG-Px	Frequency output, with conduit connection
Meter mounted analog output sensor	FIP-xxx	3-wire analog output, current or voltage
Single sensor	CAPM-xx	Frequency output for stainless steel
High temp sensor	CAPM-15	Separated pickup & amplifier module, good up to 400° F for stainless steel
High res quad sensor	QUAD-4	4x resolution, single or quadrature frequency, -80KL & 90KL.
Local Mount Display	RT-10	Display flow rate total & grand total & battery powered
Local Mount Display	RT-30	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. * For more information, see the RT-30EX data sheet.