

# JV-CG - POSITIVE DISPLACEMENT SPUR GEAR FLOW METER

Ideal for highly accurate, yet cost-effective metering of paints and industrial fluids.



## APPLICATIONS:

Great for metering non-lubricating, small-particle fluids of medium to high viscosity. These include paints, adhesives, sealants, and resins.

JV-CG series meter bodies and gears are constructed of stainless steel. Shafts and bearings are made of strong tungsten carbide. The result is long lasting service and precision operation.

Sophisticated sensors provide highly accurate fluid monitoring. Sensor choices are frequency output or analog output, including fiber optic and intrinsically safe models.

## FEATURES:

- Easy to clean and maintain
- Accuracy:  $\pm 0.5\%$  of reading
- Flow ranges from 0.001 GPM to 20 GPM
- Pressure rating up to 5000 PSI
- Available in six flow ranges
- Stainless steel construction
- Non-intrusive pulse, mA, and voltage-output sensors
- Bi-directional flow capabilities

## TECHNICAL SPECIFICATIONS

### Measuring Accuracy

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

### Repeatability

$\pm 0.1\%$

### Flow Measuring Ranges

0.001 to 0.25 gpm  
0.003 to 0.5 gpm  
0.01 to 1.0 gpm  
0.02 to 2.0 gpm  
0.1 to 7.0 gpm  
0.1 to 20 gpm

### Maximum Operating Pressure

up to 5,000 psi

### Maximum Fluid Temperature

Depends on sensor used, refer to sensor technical guide

### Ports

NPT; BSPP available - specify upon ordering

## BENEFITS

### Economical & 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 flow meter and gears are manufactured from stainless steel with tungsten carbide shafts and bearings.

### Flexible

Meter may be used in applications requiring bi-directional flow, and is offered in six different flow ranges (.001 to 20 GPM).

### Output Options

Sensors available include frequency output, analog output, fiber optic and intrinsically safe models.

## MATERIALS OF CONSTRUCTION

<b>Body</b>	303 or 316 Stainless Steel
<b>Gears</b>	Stainless Steel
<b>O-Ring</b>	PTFE, FKM Optional
<b>Bearing &amp; Shaft</b>	Tungsten Carbide

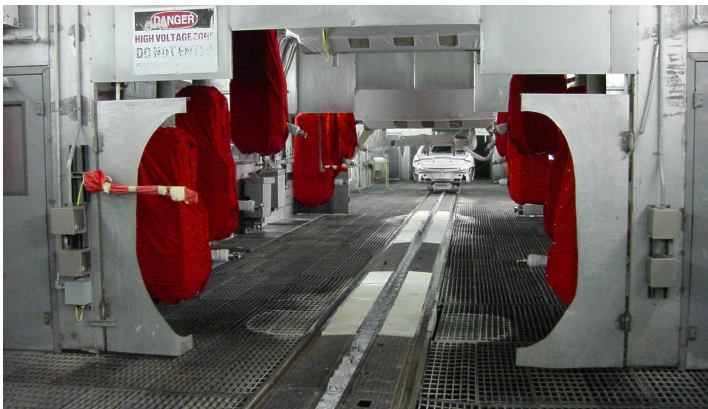
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## METER DATA

Meter Size	Flow Range (GPM)	Impulses/Gallons	Impulses/CC	Diameter (in)	Height (in)	Weight (Lbs/Kg)	Ports	Filtration (microns)	Pressure Rating
JV#-01CG	0.001-0.25	155,000	41.0	3.0"	1.8	3.0 / 1.4	1/4" NPT	120	5,000 psi
JV#-10CG	0.003-0.5	100,300	26.5	3.0"	1.8	2.9 / 1.3	1/4" NPT	120	5,000 psi
JV#-15CG	0.01-1.0	31,000	8.2	3.3"	2.0	4.5 / 2.0	1/4" NPT	120	5,000 psi
JV#-20CG	0.02-2.0	15,900	4.2	3.3"	2.2	4.9 / 2.2	1/4" NPT	120	5,000 psi
JV#-30CG	0.1-7.0	6,600	1.7	3.3"	2.6	6.3 / 2.9	1/2" NPT	120	5,000 psi
JV#-60CG	0.1-20.0	1,800	0.47	4.9"	4.2	20.0 / 9.1	3/4" NPT	175	5,000 psi

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



THE JV-CG GEAR METER UTILIZES A SLEEVE BEARING, THAT IS EXTREMELY WELL SUITED FOR AUTOMOTIVE PAINT LINES.

## 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 (intrinsically safe version also available)
High temp sensor	CAPM-15	Separated pickup & amplifier module, good up to 400°F for Stainless Steel
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

EX Versions available, consult factory.

