

JVHS - POSITIVE DISPLACEMENT SPUR GEAR FLOW METER

Works extremely well under high pressure. Ideal for measuring oil, fuel, additives and chemicals in hazardous area rated environments, such as oil production platforms, land-based oil recovery sites, chemical processing plants & laboratories.



APPLICATIONS

Designed for use in systems rated up to 15,000 psi (1035 bar), the JVHS gear meters are durable, accurate, and safe in high pressure environments. The JVHS series all can be hydro tested to 1.5 times the working pressure rating.

The JVHS meters, constructed of 316 stainless steel with Xylan®-coated bolts, come equipped with medium-pressure autoclave connections. These units are for use in high pressure hydraulic and fuel systems; in offshore chemical injection systems including methanol, corrosion and wax inhibitors; or in water treatment chemical-injection systems.

FEATURES

- Three flow ranges from 0.003 to 7.0 GPM
- Accuracy: up to 0.5% of reading
- Pressure rating up to 15,000 PSI (1035 bar)
- Bi-directional flow capabilities
- 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
0.01 to 2.0 gpm
0.03 to 7.0 gpm

Maximum Operating Pressure

Up to 15,000 psi

Maximum Fluid Temperature

185° F

Ports

3/8" MP Autoclave

BENEFITS

Affordable & Accurate

This meter has the ability to maintain consistent accuracy despite changing viscosity conditions*, with accuracy of +0.5% of reading.

Rugged Construction

The JVHS's solid body construction is made of 316 stainless steel for corrosion resistance and durability.

Flexible

Meter may be used in applications requiring bi-directional flow, and can be hydro tested to 1.5x the working pressure rating.

Hazardous Environment Ready

A complete line of explosion-proof sensors and displays are available for the JVHS meters.

* For viscosities above 30cP.

MATERIALS OF CONSTRUCTION

Body	316 Stainless Steel
Gears & Ball Bearings	Stainless Steel
O-Ring	PTFE (other options available)
Bolts	Xylan® coated steel (stainless steel bolts available)

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METER DATA

Meter Size	Flow Range (GPM)	Impulses/Gallons	Impulses/CC	Diameter (in)		Ports	Filtration (microns)	Pressure Rating	Weight (Lbs/Kg)
JVHS-12KG-(EX)*	0.003-0.8	53,000	14.0	3.75"	2.5"	3/8" med pressure Autoclave	30	15,000 psi	7.5 / 3.4
JVHS-20KG-(EX)*	0.01-2.0	15,900	4.2	3.75"	2.5"	3/8" med pressure Autoclave	30	15,000 psi	7.4 / 3.36
JVHS-30KG-(EX)*	0.03-7.0	6,600	1.7	3.75"	3.0"	3/8" med pressure Autoclave	30	15,000 psi	8.9 / 4.04

*EX versions available.

RECOMMENDED SENSORS

Model	Sensor Type	Sensor Features
EX Meters		
HUB-40EX	Hazardous area rated sensor	cCSAus certified pulse output hall effect single sensor
HUB-41EX	Hazardous area rated sensor	ATEX and IECEx hazardous area certifications
RT-30EX	Hazardous area rated flow transmitter	cCSAus certified rate & total display, 4-20mA analog output, HART communication available
Non EX Meters		
FIP-XX	Meter mounted analog output sensor	3-wire analog output, current or voltage
MAG-PB	Hall effect single sensor	Frequency output with conduit connection
RT-30SD	Local flow rate transmitter	Rate & local display with 4-20mA analog output

