JVH High Pressure Positive Displacement Flow Meter

Common Uses

Designed for use in systems rated up to 15,000 psi (1035 bar), the JVH meters are well suited for oils, fuels, additives, and chemicals in hazardous areas. JVH meters come standard with inconel bolts for added strength and better corrosion resistance. The internal design has reduced space between the gears and measuring chamber to reduce slippage and improve the low flow performance of the meter. Practical applications include:

- · Offshore production platforms, i.e. chemical injection
- Hydraulic power units
- · Gas dehydration systems
- Chemical processing plants



Technical Specifications

| 5 Flow Ranges | 0.001 to 20 gpm (across all meter sizes) | | | | | |
|-------------------------|--|--|--|--|--|--|
| Measuring Accuracy | ±0.5% M.V. over full range with 30cP fluid, ±0.25% M.V. optional with select sensors | | | | | |
| Repeatability | ±0.1% | | | | | |
| Max. Operating Pressure | up to 15,000 psi 1035 bar | | | | | |
| Ports | Autoclave, Medium Pressure | | | | | |
| Turndown | up to 400:1 | | | | | |
| Calibration | 7-point calibration | | | | | |

Materials of Construction

| Body | 316L Stainless Steel |
|----------|--|
| Gears | Stainless Steel (DIN 1.4122) |
| Bearings | Stainless Steel Ball Bearings or Tungsten Carbide Sleeve Bushing |
| O-Ring | FKM or FFKM |
| Shafts | 402 Stainless Steel or Tungsten Carbide |
| Bolts | Inconel 718 |

Output Options

Choose from a wide variety of pickups, sensors, monitors, and controllers to pair with your gear meter:

- Frequency
- Analog (voltage or 4-20mA)
- · Battery, loop, or DC powered displays



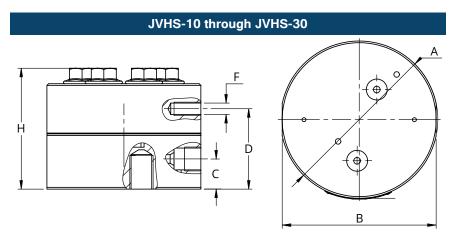
JVH High Pressure Positive Displacement Flow Meter

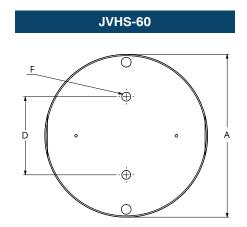
Meter Data

| Meter Size | Flow Range | | | Resolution* | | Resolution* | | Ports | Filtration (microns | | Pressure |
|------------|------------|-----------|------------|----------------|---------------|----------------------|----|-------|---------------------|--|----------|
| | (GPM) | (LPM) | (Gal/Day) | (Impulses/Gal) | (Impulses/CC) | (Med Pres Autoclave) | ВВ | TC | (psi/bar) | | |
| JVHS-10 | 0.001-0.5 | 0.005-2.0 | 1.4-720 | 200,600 | 53.0 | 3/8" | 30 | 120 | 15,000/1035 | | |
| JVHS-12 | 0.005-0.8 | 0.02-3.0 | 7.2-1152 | 106,000 | 28.0 | 3/8" | 30 | 120 | 15,000/1035 | | |
| JVHS-20 | 0.02-2.0 | 0.1-7.0 | 28.8-2880 | 31,800 | 8.4 | 3/8" | 30 | 120 | 15,000/1035 | | |
| JVHS-30 | 0.1-7.0 | 0.5-25.0 | 144-10,080 | 13,200 | 3.5 | 3/8" | 30 | 120 | 15,000/1035 | | |
| JVHS-60 | 0.1-20.0 | 0.5-75.0 | 144-28,800 | 3,600 | 0.95 | 3/4" | 30 | 200 | 7,500/520 | | |

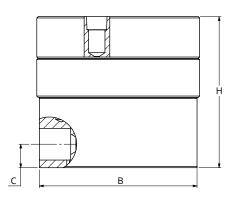
^{*} Figures shown represent resolution when using dual pickup sensor.

Meter Dimensions





| Meter Size | Dimensions | | | | | | Weights | |
|------------|------------|------|-------|------|--------------------------|------|---------|------|
| | Α | В | С | D | F (mounting hole) | Н | (Lbs) | (Kg) |
| JVHS-10 | 3.7" | 3.6" | 0.71" | 1.9" | M6x1x10mm | 2.8" | 7.5 | 3.4 |
| JVHS-12 | 3.7" | 3.6" | 0.71" | 1.9" | M6x1x10mm | 2.8" | 7.5 | 3.4 |
| JVHS-20 | 3.7" | 3.6" | 0.71" | 1.9" | M6x1x10mm | 2.8" | 7.5 | 3.4 |
| JVHS-30 | 3.7" | 3.6" | 0.71" | 2.4" | M6x1x10mm | 3.3" | 8.6 | 3.9 |
| JVHS-60 | 5.0" | 4.8" | 0.71" | 2.4" | M8x1x16mm | 4.6" | 24.5 | 11.1 |

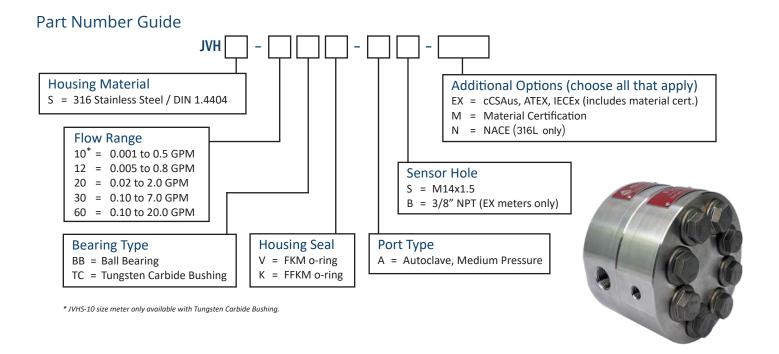


3D STEP Models are available upon request of factory.

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



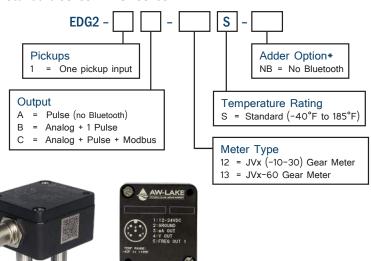
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Recommended Sensors

AW-Lake offers a wide selection of Sensors/Pickups and Monitors/Controllers to optimize flow measurement and deliver your flow data where you need it and in the format you need it.

JVH Standard Sensor: EDGE Sensor



Additional Electronics Options:

JVH meters are also compatible with a range of other pickups, displays, and controllers for high temperature and EX-rated environments.

Visit AW-Lake.com for more information.



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