

ZHM - POSITIVE DISPLACEMENT SPUR GEAR FLOW METER

Ideal for measuring the flow rates multi-viscosity fluids, as well as abrasive fluids and fluids under high pressure, such as paints, coatings, waxes, epoxies, sealants and oils.



APPLICATIONS

Talk about tough – these positive displacement flow meters from AW Gear Meters can handle it. They feature rugged stainless steel gears and bodies, and even tougher tungsten carbide bearings. So not only will they meter abrasive fluids and fluids under high pressure – they will do it for a very long time.

While these in-line flow meters have super strong construction characteristics, they are also finely engineered, which prevents fluid slippage and allows the devices to measure even the lowest flow accurately.

FEATURES

- Ten flow ranges from 0.001 to 265.0 GPM
- Accuracy: up to 0.5% of reading
- Pressure rating up to 9,000 PSI
- Non-intrusive sensors, panel mount displays, and electronic modules available

TECHNICAL SPECIFICATIONS

Measuring Accuracy

± 0.5% over full range with 30cP fluid

Repeatability

± 0.1%

Flow Measuring Range

Ten flow ranges:
0.001 to 0.25 gpm
0.003 to 0.5 gpm
0.01 to 0.5 gpm
0.02 to 2.0 gpm

0.1 to 7.0 gpm
0.1 to 20 gpm
1.0 to 40 gpm
1.0 to 66 gpm
5.0 to 132 gpm
13 to 265 gpm

Maximum Operating Pressure
up to 9,000 psi

Maximum Fluid Temperature
350°F (180°C)

BENEFITS

Simple to install & 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. Non-intrusive sensors, panel mount displays, and electronic modules available.

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 ZHM's solid construction is offered in 303.

Flexible

Meter may be used in applications requiring bi-directional flow, and is offered in ten different flow ranges (0.001 to 265.0 GPM).

Economic Low Flow Meter

The meters produce good resolution and high accuracy at low flow rates all for an affordable price.

MATERIALS OF CONSTRUCTION

Body	303 Stainless Steel (standard)*
Gears	Stainless Steel
Bearings & Shaft	Tungsten Carbide
O-Ring	PTFE; FKM Optional

*Consult factory for other materials available.

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RECOMMENDED SENSORS

Sensor Type	Model	Sensor Features
Carrier frequency single sensor	VTER/P	For ZHM-01, supply voltage 7-29 VDC, 5-pin
Carrier frequency single sensor	VTEK/P	For ZHM-02-04, supply voltage 7-29 VDC, 5-pin
Carrier frequency single sensor	VTEL/P	For ZHM-05-07, supply voltage 7-29 VDC, 5-pin
Carrier frequency dual sensor	VTD-10	For ZHM-01, supply voltage 8-30 VDC, 5-pin
Carrier frequency dual sensor	VTD-11	For ZHM-01/1, supply voltage 8-30 VDC, 5-pin
Carrier frequency dual sensor	VTD-11	For ZHM-02/1, supply voltage 8-30 VDC, 5-pin
Carrier frequency dual sensor	VTD-20	For ZHM-02, supply voltage 8-30 VDC, 5-pin
Carrier frequency dual sensor	VTD-20	For ZHM-03, supply voltage 8-30 VDC, 5-pin
Carrier frequency dual sensor	VTD-50	For ZHM-04, supply voltage 8-30 VDC, 5-pin

METER DATA

Meter Size	Flow Range (GPM)	Impulses/ Gallon	Impulses/ cc	Diameter (in)	Height (in)	Weight (Lbs / Kg)	Ports	Adaptor Pb	Filtration (microns)	Pressure Rating
ZHM-01	0.001 to 0.26	155,000	41.0	2.9"	1.61"	2.9 / 1.3	M12x1.5	¼" NPT	120	9,000 psi
ZHM-01/1	0.001 to 0.5	100,300	26.5	2.99"	1.61"	3 / 1.3	M12x1.5	¼" NPT	120	9,000 psi
ZHM-02/1	0.013 to 0.52	31,000	8.2	3.33"	2.0"	4.6 / 2.1	M12x1.5	¼" NPT	120	9,000 psi
ZHM-02	0.025 to 2.0	15,900	4.2	3.33"	2.16"	4.9 / 2.2	M12x1.5	¼" NPT	120	9,000 psi
ZHM-03	0.13 to 7.0	6,600	1.74	3.33"	2.63"	6.4 / 2.9	M12x1.5	¼" NPT	120	9,000 psi
ZHM-04	0.13 to 19.0	1,800	0.47	4.92"	3.78"	18.7 / 8.5	M20x1.5	¾" NPT	200	7,500 psi
ZHM-05	0.13 to 40.0	500	0.13	6.88"	5.24"	50.7 / 23	M33x2.0	1" NPT	200	6,000 psi
ZHM-06/1KR	1.3 to 66	400	0.10	7.40	5.51	59.5 / 27	SAE 1 ¼" flange	flange	300	6,000 psi
ZHM-06KR	5.0 to 132	200	0.05	7.40	7.09	77 / 35	SAE 1 ¼" flange	flange	300	6,000 psi
ZHM-07KR	13.0 to 265.0	90	0.02	9.13	7.87	146 / 66.5	SAE 1 ½" flange	flange	300	6,000 psi



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

