

Tripple Option Trading 211 CC

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Our experienced consultants will assist you in choosing the proper flow meter for your application. And they will be pleased to offer installation guidance to assure that the flowmeter selected will perform as accurately as possible. Additionally, they will stand ready to support you with any after-sale assistance that you may require.

Oval Gear Flowmeter (Positive displacement flowmeter)



Oval Gear Flowmeter is a kind of volumetric measuring instruments. which is mainly made up of shell, the oval gear rotor and transmission components. Measurement is made in the testing room. There is a pair of oval gear inside. The pair of oval gear will keep rotating on the axis under the role of liquid pressure difference between inlet and outlet. In the measuring chamber, a pair of oval wheels and cover plate make a crescent shape cavity which is used as a measuring element. The oval wheels are rotated by the pressure difference in the inlet and out-let of the meter and drive the inlet liquid through the cavity to the outlet, each revolution of the oval wheels displaces fluid four time the volume of the cavity, the total revolutions of the oval wheels and the revolution rate will be transferred to the mechanical counter, and the total liquid volume and instantaneous flow will be shown by the pointer display and the roller integration. The attached signal generator converts the rotary axial angular shift to the pulse signal and then transmitters it to the electrical indicator for remote integrated flow and instantaneous flow indication and control.

It is used in the pipeline for continuous or intermittent liquid flow measurement and control. It has these advantages : wide range, excellent accuracy, small pressure loss, strong viscosity adaptability, capable for measuring liquids of high viscosity and temperature, convenient calibration, simple to install, etc. Applied to crude oil, chemicals, chemical fiber, traffic, commerce, food, medicine care, scientific research and military industries in the flow measurement.

For the different liquids (acid, alkali, salt, organic solution etc.), the meters can be made of different materials (casted iron, casted steel, stainless steel, Aluminum. Etc) with the material code as follows: **A**

Oval Gear Flowmeter

represents casted iron, **E** represents casted steel, **B** represents stainless steel (1 Cr18Ni9Ti), and **L** represents aluminium.

Usually, oval gear flow meter can display the cumulative flow, instantaneous flow, a single flow, and so on, can also output pulse signal, 4-20mA or analog signals、4-20mA +HART、MODBUS、supporting RS232、RS485 communications. Combined with relative mechanical or electronic batch controller, it can realize for different types of filling, control, and other functions approved.

Flowmeters are manufactured from precision machining, casting without surface defects, the surface is smooth and beautiful.

Flow meters use waterproof design.

Transmission Chain short, the work is urgent and reliable high precision and stability.

Oval gear flowmeters are small size, light weight, and is particularly applicable to factories, wharves, ships, removal and demolition of the more troublesome areas.

Flow meter on-site indicate can show the cumulative flow、 instantaneous flow、 a single flow.

Basic error: $\pm 1\%$, $\pm 0.5\%$, $\pm 0.2\%$

Nominal Diameter DN (mm): 4mm –300 mm

Measured the temperature of the liquid: $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$, $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$
 $+60^{\circ}\text{C} \sim +200^{\circ}\text{C}$, $+100^{\circ}\text{C} \sim +300^{\circ}\text{C}$

Tested the liquid viscosity(mPa.s):0.3 ~ 50000

Pipeline Connection: Flange

Output signal: pulse signals, 4 ~ 20mA, 4 ~ 20mA +HART agreement, MODBUS

Support RS232, RS485 communications (optional)

Ex Rank:ExdIIBT5

Protection Level: IP65 IP67

Material	cast iron		cast steel		stainless steel	
Normal pressure (Mpa)	1.0	1.6	2.5	4.0	6.4	1.0 1.6
Viscosity	2 — 200 mPa. s					
Temperature	$-20^{\circ}\text{C} \sim +100^{\circ}\text{C}$					
Accuracy	$\pm 0.5\%$	$\pm 0.2\%$	$\pm 0.5\%$	$\pm 0.2\%$	$\pm 0.5\%$	$\pm 0.2\%$
DN (mm)	m ³ / h	m ³ / h	m ³ / h	m ³ / h	m ³ / h	m ³ / h
10	0.04-0.4	0.1-0.4	0.04-0.4	0.1-0.4	0.1-0.5	0.1-0.5
15	0.25-1.5	0.3-1.5	0.25-1.5	0.3-1.5	0.3-1.5	0.3-1.5
20	0.5 -3	0.6-3	0.5-3	0.6-3	0.6-3	0.6-3
25	1-6	1.2-6	1-6	1.2-6	1.2-6	1.2-6
40	2.5-15	3-15	2.5-15	3-15	3-15	3-15
50	4-24	4.8-24	4-24	4.8-24	4.8-24	4.8-24
65	5-40	8-40	5-40	8-40	8-40	8-40
80	10-60	12-60	10-60	12-60	12-60	12-60
100	16-100	20-100	16-100	20-100	20-100	20-100
150	32-190	38-190	32-190	38-190	38-190	38-190

Oval Gear Flowmeter

200	34-340	68-340	34-340	68-340	68-340	68-340
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To ensure precise measurement, and best flow instrument selection, please provide as much information as possible about your application.

It will be helpful to include the medium to be measured, the pipe diameter or schedule, the pressure, and the maximum flow rate.

Precise measurement, prestigious business.

We look forward to building a long-term business relationship with you.

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