

# Oval Gear Flow Meter

## Description

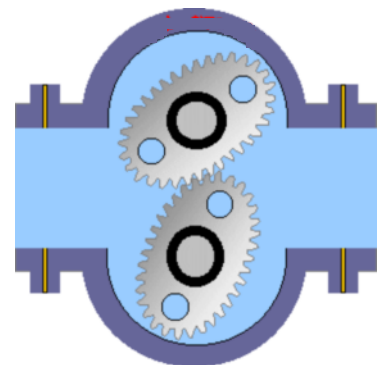
Oval gear flow meter is a pointer display. It is a kind of light volume flow meter of which the print wheel has cumulative count and zero. This flow meter is widely used in various industrial areas to control the liquid flow.

It is applicable to all types of liquid measuring, such as crude oil, diesel, gasoline and so on, with great range and high precision, convenient use and maintenance. Different materials selected can meet the petroleum, chemical, pharmaceutical, food, metallurgy, electricity, transportation and other fields of liquid flow measurement.



## Operating Principle

Fluid enters inlet port and then passes through the metering chamber. Inside the chamber, fluid forces the internal gears to rotate before exiting through the outlet port. Each rotation of the gears displaces a specific volume of fluid. As the gears rotate, a magnet on each end of the gear passes a reed switch in the top mounted register's circuit board.



## Flow Range

Diameter (mm)	Flow Range(m <sup>3</sup> /h)		Temperature
	±0.5% accuracy	±0.2% accuracy	
10	0.08~0.4	0.08~0.4	-20°C~+80°C (High Temp.is available on request)
15	0.3~1.5	0.5~1.5	
20	0.4~3	0.8~3	
25	0.8~6	1.5~6	
40	1.5~15	3~15	
50	3~24	8~24	
65	6~40	10~40	
80	8~60	12~60	
100	13~100	20~100	
150	19~190	38~190	
200	34~340	68~340	

## Model Selection

Model	Suffix Code							Description
LC-	①	②	③	④	⑤	⑥	⑦	Oval Gear Flowmeter
<b>Diameter</b>	XXX							010: DN10 100: DN100 200: DN200
<b>Converter Type</b>	M0							Mechanical Display; No Output
	M1							Mechanical Display; Pulse Output; 24V DC
	M2							Mechanical Display; 4-20mA Output; 24V DC
	B							LCD Display; No Output; Battery
	L1							LCD Display; Pulse Output; 24V DC
	L2							LCD Display; 4-20mA Output; 24V DC
	L3							LCD Display; 4-20mA + Pulse Output; 24V DC
<b>Reset Function</b>		Y						Yes
		N						None
<b>Accuracy</b>				02				±0.2% of rate
				05				±0.5% of rate
<b>Structure</b>					S			Standard Type
					T			High Temperature Type( 280°C)
					V			High Viscosity Type( 3000 cst)
<b>Body Material</b>						CI		Cast Iron
						CS		Cast Steel
						S4		SS 304
						S6		SS 316
<b>Connection</b>							DXX	D16: DIN PN16 Flange; D25: DIN PN25 Flange...
							AXX	A15: ANSI 150# Flange; A30: ANSI 300# Flange...
							JXX	J10: JIS 10K Flange; J20: JIS 20K Flange...

## For example

① ② ③ ④ ⑤ ⑥ ⑦  
**LC 100 M0 Y 02 T S4 D16**

- ① 100: DN100
- ② M0: Mechanical Display, no output with reset
- ③ Y: Reset function
- ④ 02: Accuracy: 0.2% of rate
- ⑤ T: High temperature type
- ⑥ S4: SS304 body material
- ⑦ D16: Flange DIN PN16



Klinger LC 170820