

# OVAL WHEEL METER FLOWAL® Plus

## SERIES OD

### CHARACTERISTICS

- direct dosing and measurement of volume flow
- Measuring accuracy 0,5 % of instantaneous value
- high accuracy / repeatability for small quantities
- high long-term stability
- extremely robust and compact design
- Measurement of non-conductive and conductive liquids
- Especially suitable for oil measuring stuff
- Fillings from 10ml possible
- very short dosing times > 250 ms
- high resolution (e.g. OD06 : 2000 Pulses/l)
- Large selection of capacities with different diameters
- Combinable with MID-MDS-System, MID-PLC or other Batch-Controllers

### MEASUREMENT PRINCIPLE

Oval wheel meters are direct flow meters. Its measuring element consists of two toothed precision oval wheels, which are driven by the liquid and roll on each other. As a result, a certain amount of liquid is transported through the counter with each revolution of the oval wheel pair.

The number of revolutions is an accurate measure of the amount flowed through. The pulses generated by a high-resolution impulse pick-up are fed into the evaluation electronics PV13 and processed.

### TECHNICAL DATAS

Accuracy*	< ± 0,5% of measured value
Repeatability	± 0,1 % of measured value
Liquid temperature	-10°C to +70°C / 120°C
Ambient temperature	-20°C to +70°C
Process connection	TriClamp according to DIN 32676, others on request
Electric supply	18V – 36V DC Pulse output
Material	Housing: stainless steel Wheels: stainless steel, PEEK Seal: Viton, alternative EPDM
Protection	IP 67

### MEASURING RANGE

OD	Measuring Range **	Pulse/L
06	0.2 – 5 <sup>1/7</sup> l/min	2000
2	1 – 30 <sup>12</sup> l/min	1000
5	2 – 50 <sup>1/60</sup> l/min	400
10	4 <sup>1/3</sup> – 100 <sup>1/120</sup> l/min	200

(<sup>1</sup> with stainless steel wheels)  
(<sup>2</sup> with PEEK wheels)

\*\*Ranges of 0,8 - 150mPa.s

\*at reference conditions > 3m.Pas



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### DIMENSIONS

Type	OD06	OD2	OD5	OD10
Length (mm)	150	150	150	150
Height (mm)	98	115	118	144
Connection	DN10	DN15	DN20	DN25

### CONNECTION

