

# OM SERIES CHEMICAL FLOW METER



The **FLOMEC® Chemical Flow Meter** provides precise volumetric flow measurement of a broad range of clean water based products and aggressive chemicals as well as DEF and lubricating liquids. Applications include batching, dosing or packaging of various corrosive chemicals as a more economical alternative to a complete 316 stainless steel flow meter for liquids such as Diesel Exhaust Fluid (AdBlue®).

## FEATURES / BENEFITS

- Combination Reed Switch & Hall Effect Sensor
- PPS Rotors, No Bearing
- FKM (Viton™) 5°F minimum (-15°C) O-Ring material
- High accuracy & repeatability, direct reading flow meter
- No requirement for flow conditioning (straight pipe runs)
- Measures high & low viscosity liquids
- Quadrature pulse output option & bi-directional flow
- Meets DEF (Diesel Exhaust Fluid) / AdBlue® Standards

## SPECIFICATIONS

Technology:	Oval Gear	
Line Size:	025	1 in. (25 mm)
Accuracy (% of reading):	± 0.5% (± 0.2% with optional RT14 with non-linearity correction)	
Repeatability:	Typically ± 0.03% of reading	
Material Housing:	PPS	
Fitting Type:	BSPP (RP) female threaded (ISO7)	
	NPT female threaded	
Flow Range:	2.6-40 GPM (10-150 L/min)	
Pressure Rating:	174 psi (12 bar)	
Burst Pressure:	522 psi (36 bar)	
Operating Temperature:	176°F (80°C) Maximum	
Temperature Range:	-40°C - +80°C (-40°F - +176°F)	
Electrical:		
Output Pulse Resolution:	Pulses/gallon (Pulses / L) - Nominal	
Reed Switch:	102 (27)	
Hall Effect:	405 (107)	
QP Quadrature Pulse:	204 (54)	
Reed Switch Output:	30V (dc) x 200mA max. (maximum thermal shock 18°F [10°C] / minute)	
Hall Effect Output:	3 wire open collector 5-24V (dc) max., 20mA max.	
Recommended Filtration:	200 mesh [75 µm]	

## APPLICATIONS (Typical application but not limited to)

- Water (non-potable, demineralized, RO)
- Glycols / Anti-Freeze
- Diesel Exhaust Fluid (DEF / AdBlue®)
- Fertilizers
- Herbicides
- Insecticides
- Also suitable for many non-flammable fuels and oils

## APPROVALS / WARRANTY



NEMA  
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IP65



ISO 22241-2 Annex C, D, E, F, G, H, I,  
Diesel Exhaust Fluid (DEF)/ AdBlue® standards



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# OM SERIES

## CHEMICAL FLOW METER

### FLOW METER SELECTION

- PPS flow meters are used for non-aromatic/non-halogenated organic chemicals, water based liquids, Diesel Exhaust Fluid and petroleum products including oils and grease. It is unsuitable for strong acids and oxidizers.
- PPS flow meters with standard ceramic rotor pins are suitable for applications where stainless steel is not suited or permitted.
  - 1) Standard blind pulse flow meters come pre-configured with Reed Switch and Hall Effect outputs.
  - 2) Blind Quadrature pulse options available.
  - 3) Local display with standard pulse out or 4-20mA options available.

### DIMENSIONS

	Dimension "A"	Dimension "B"	Dimension "C"
OM025P	2.9 in. (7.4 cm)	2.9 in. (7.4 cm)	5.4 in. (13.7 cm)
OM025P RT14	4.8 in. (12.2 cm)	4.9 in. (12.4 cm)	6.6 in. (16.8 cm)
OM025P RT40	4.5 in. (11.4 cm)	3.9 in. (9.9 cm)	6.9 in. (17.5 cm)

