

OM SERIES CHEMICAL FLOW METER



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)
Electrical:	
Output Pulse Resolution:	Pulses/gallon (Pulses / L) - Nominal
Reed Switch:	102 (27)
Hall Effect:	405 (107)
QP Quadrature Pulse:	204 (54)
Pulse Output Options	
Reed Switch:	30V (dc) x 200mA max. (maximum thermal shock 18°F [10°C] / minute)
Hall Effect (NPN):	3 wire open collector 5-24V (dc) max., 20mA max.
4-20mA (Hall Effect):	2 wire Loop Powered, 12-28V (dc)
Quadrature (2x NPN):	4 wire open collector, 5-24V (dc) max., 20mA max.
Optional Integral or Remote Instrument	
RT40 Rate and Totalizer	Discrete scaled or unscaled pulse, and flow alarm with local digital display
RT14 Rate and Totalizer	Analog 4-20mA, discrete scaled or unscaled pulse, and flow alarm with local digital display
EB40 Single Stage Batch Controller	Single stage batch controller, flow alarm with local digital display
EB11 Dual Stage Batch Controller	Dual stage batch controller with local digital display



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

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
4

IP65



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



Wichita · Sydney

GREAT PLAINS INDUSTRIES



OM SERIES

CHEMICAL FLOW METER

SPECIFICATIONS CONTINUED

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)
Recommended Filtration:	200 mesh [75 µm]

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)

