

OM SERIES CHEMICAL FLOW METER



# PRODUCT IDENTIFIER 1

**OM** = Oval Gear Meter

## METER SIZE 2

**025** = 1" (25 mm), 2.6 - 40 GPM (10-150 L/min)

# BODY MATERIAL 3

 $\mathbf{P}$  = PPS

#### ROTOR MATERIAL / BEARING TYPE 4

**00** = PPS / No bearing

**10** = Keishi cut PPS / No bearing

## O-RING MATERIAL 5

- = FKM (Viton™) -5° F minimum (-15° C)
- **3** = PTFE encapsulated FKM (Viton<sup>™</sup>) -5° F minimum (-15° C)
- 4 = Buna-N (Nitrile), -40° F minimum (-40° C)

#### MAXIMUM TEMPERATURE LIMIT 6

**-8** = 176° F (80° C) max.

## PROCESS CONNECTIONS 7

- 1 = BSPP (G) female threaded (ISO 228)
- **2** = NPT female threaded

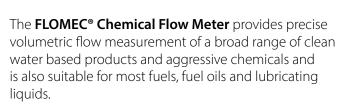
# CABLE ENTRIES 8

- $1 = M20 \times 1.5 \text{ mm (M16} \times 1.5 \text{ mm for R4 option)}$
- 2 = 1/2 in. NPT
- **6** =  $3 \times 16$  mm drilled holes (for F instruments only)

#### **INTEGRAL OPTIONS** 9

- = Combination Reed Switch and Hall Effect Sensor.
- **QP** = Quadrature pulse (2 NPN phased outputs).
- **QPN** = Quadrature pulse (2 NPN phased outputs) with Australian NMI & NZ approval for trade sale.
- **R4** = RT40 rate totalizer with backlit large digit LCD [scalable pulse output, backlight]\*#
- **R4G** = RT40 rate totalizer with backlit large digit LCD (Alloy housings with facia) (with gallons calibration)\*#
- **R5** = RT14 backlit rate totalizer with all outputs (GRN Housing)\*#
- **R5G** = RT14 backlit rate totalizer with all outputs (GRN Housing) (with gallons calibration)\*#
- **E0** = EB10 batch cwontroller [2 stage DC batchewr & totalizer] (GRN Housing)\*#
- **EOG** = EB10 batch controller [2 stage DC batcher & totalizer] (with gallons calibration) (GRN Housing)\*#
- F18 = F018 backlit rate/tot, pulse, 4-20mA, 10 point linearization, HART#

1 2 3 4 5 6 7 8 9 How to Order: OM 025 P 10 1 -8 1 1 R5



Applications include batching, dosing or packaging of various corrosive chemicals as a more economical alternative to a complete 316 stainless steel meter for liquids such as Diesel Exhaust Fluid (Adblue).

# **FEATURES / BENEFITS:**

FLOME

- 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.
- Optional NMI Pattern Approval (Australia Only).

## **METER SELECTION:**

- PPS meters are used for non-aromatic/nonhalogenated organic chemicals, water based liquids, Diesel Exhaust Fluid and petroleum products including oils and grease, fuels and fuel oils. It is unsuitable for strong acids and oxidizers.
- PPS meters with standard ceramic rotor pins are suitable for applications where stainless steel is not suited or permitted.
- Blind pulse meters are available with Reed Switch and Hall Effect outputs. Quadrature pulse and integral 4-20mA outputs are optional.



SPECIFICATIONS:		
	ОМ025	
Nominal Size:	1" (25 mm)	
Nominal Flow Range* @ 3cP:	2.6 - 40 GPM (10-150 L/min)	
Accuracy:	$\pm 0.5\%$ of reading ( $\pm 0.2\%$ of reading with optional RT14)	
Repeatability:	Typically ± 0.03% of reading	
Temperature Range:	-40°C - +80°C (-40°F - +180°F)	
Max. Pressure:	70 psi (5 bar)	
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]	

DIMENSIONS:			
	В	С	
EB10/RT12/RT14	6.57" (167mm)	4.88" (124mm)	
RT40	6.69" (170mm)	3.78" (96mm)	
COVER	4.84" (123mm)	2.91" (74mm)	







