



# **MEDIUM CAPACITY CHEMICAL MET**

FLOMEC® Medium Capacity Chemical Flowmeter provide precise volumetric flow measurement of a broad range of clean water based products and aggressive chemicals and is also suitable for most fuels, fuel oils and lubricating liquids. Applications include batching, dosing or packaging of various corrosive chemicals or as a more economical alternative to a complete 316 stainless steel meter for liquids such as Diesel Exhaust Fluid (AdBlue).

#### Features / Benefits

- ☐ High accuracy & repeatability, direct reading flowmeter
- ☐ No requirement for flow conditioning (straight pipe runs )
- ☐ Measures high & low viscosity liquids
- ☐ Quadrature pulse output option & bi-directional
- □ Optional NMI Pattern Approval (Australia Only)

#### **Meter Selection**

- ☐ PPS meters are used for non-aromatic/non-halogenated chemicals, water based liquids, Diesel Exhaust Fluid and petroleum products including oils and grease, fuels and fuel oils.
- ☐ 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 & Hall Effect outputs. Quadrature pulse output is optional.



## **Integral Instruments**

FLOMEC® Chemical Meter options include integral LCD totalisers, flow rate totalisers and batch controllers. These instruments provide monitoring & control outputs including 4~20mA, scaled pulse, alarms & batch control:

- ☐ BT11 LCD 5 digit reset, 8 digit accumulative totaliser.
- ☐ RT12 LCD 6 digit reset, accumulative totaliser & flow rate. Analogue and pulse outputs
- ☐ RT40 LCD 6 digit reset, accumulative totaliser & flow rate. Backlit Display.
- ☐ EB10 LCD 6 digit 2 stage batcher & accumulative totaliser. (Instruments also available for remote mounting)









Illustration of RT12, RT40, EB10 and BT11 integral instrument options











## **Specifications**

Flow Range: 10 ~ 150 litres / min. (2.6~ 40 USgal/min)

Size: 25mm (1"NB)

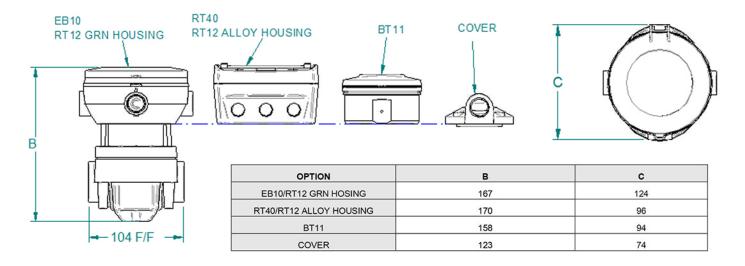
Materials: Meter Body:- Glass Reinforced PPS (Ryton®)

Meter Cap:- Glass Reinforced PPS (Ryton®)

Rotors:- Glass Reinforced/Teflon Filled PPS (Ryton®) Rotor Pins:- Ceramic (High Purity Alumina, AL203)

Model prefix :	orefix : OM025 (1")			
Nominal size (inches)	25mm (1")			
*Flow range - (litres/min)	10~150			
(US gal/min)	2.6 ~ 40			
**Accuracy @ 3cp	± 0.5% of reading (accuracy is ± 0.2% of reading with optional RT12 with non-linearity correction			
Repeatability	typically ± 0.03% of reading			
Temperature range	-20°C ~ +80°C ( -4°F ~ +180°F ), refer factory for lower temperature			
Maximum pressure	(Threaded meters)bar (PSI)			
PPS meters	5 (70)			
Electrical - for pulse meters (see	e below for optional outputs )			
Output pulse resolution	pulses / litre (pulses / US gallon) - nominal			
Reed switch	<b>27</b> (102)			
Hall effect	107 (405)			
Quadrature Hall option	<b>54</b> (204)			
Reed switch output	30Vdc x 200mA max. (maximum thermal shock 10°C (18°F) / minute)			
Hall effect output (NPN)	3 wire open collector, 5~24Vdc max., 20mA max.			
Optional outputs	4∼20mA, scaled pulse, quadrature pulse,			
Optional Galpato	flow alarms or two stage batch control			
Physical				
Protection class	IP66/67 (NEMA4X).			
Overall dimensions	Refer Below			
Recommended filtration	150 microns (100 mesh)			

### **Overall Dimensions**











## **Model Coding**

Model Size						
OM0251 1"	(25mm) 1	.0~15	0 L/min	2.6~40 GPM		
Body material						
P PPS (suitable for PPS rotors only)						
Rotor material						
O PPS - Teflon filled (Polyphenylene Sulfide)						
1 Keishi cut PPS rotors (for high viscosity liquids)						
Bearing type						
0 No Bearing (PPS rotors only)						
O-ring material						
1 Viton (standard) -15°C minimum (-5°F)						
3 Teflon encapsulated viton						
4 Buna-N (Nitrile), -40°C minimum (-40°F)						
Temperature limits						
- <b>8</b> 80°C (176°F) max.						
Process connections						
1 BSPP (G) female threaded						
2 NPT female threaded						
Cable entries						
Exclusive to		_	3~6mm cable gland or no cable entry			
			M20 x 1.5mm (M16 x 1.5mm for R0 and R4 options)			
2 1/2" NPT						
Integral options						
			Nil			
not available with high press models				2 NPN phased outputs)		
for injected combustion engines				on (Hall effect output only)		
with scaleable pulse output			BT11 totaliser with			
				with all outputs (Alloy housing)		
			RT12 rate totaliser with all outputs (GRN housing) RT40 rate totaliser with backlit large digit LCD (Alloy housing)			
			EB10 batch control			
	b. Example	LU	LDIO DALCII COIILIOI			
OM025 P	0 0 1 - 8 1 0	B2				













