***Flomec* medium capacity chemical flowmeters** 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 flow
- Integral 4-20mA output option
- Optional NMI Pattern Approval (Australia Only)

Blind Pulse Meter

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 & Integral 4-20mA outputs are optional.

With LCD Register

Integral instruments

Flomec chemical meter options include integral LCD totalisers, flow rate totalisers & batch controllers. These instruments provide monitoring & control outputs including 4~20mA, scaled pulse, alarms & batch control:

- BT LCD 5 digit reset, 8 digit cumulative totaliser.
- RT12 LCD 6 digit reset, cumulative totaliser & flow rate. Analogue and pulse outputs
- RT40 LCD 6 digit reset, cumulative totaliser & flow rate. Backlit Display.
- EB LCD 6 digit 2 stage batcher & cumulative totaliser.

(Instruments also available for remote mounting and with I.S. approvals)

General specification

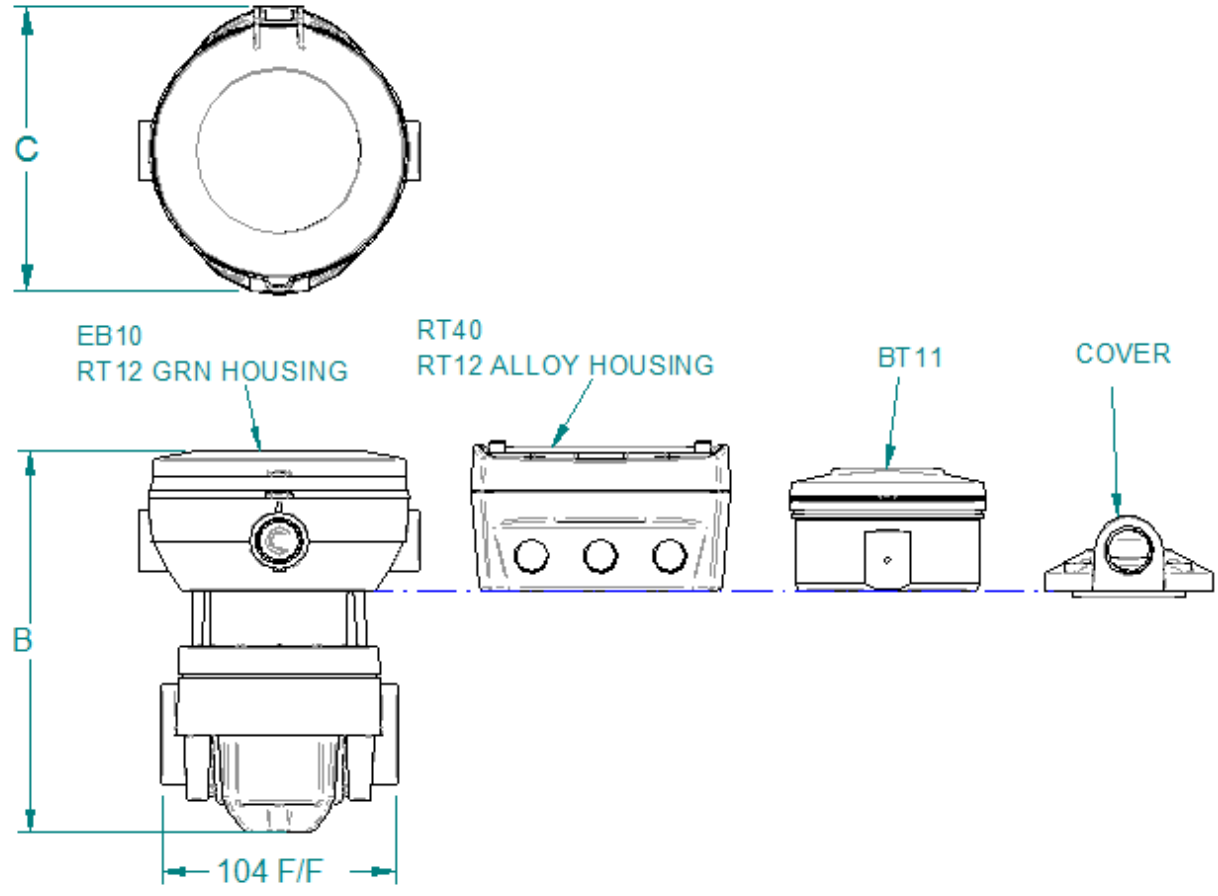
Flow Range:	10 ~ 150 litres / min. (2.6~ 40 USgal/min)	
Size:	25mm (1”NB)	
Materials:	Meter Body:-	Glass Reinforced PPS (*Ryton*®)
	Meter Cap:-	Glass Reinforced PPS (*Ryton*®)
	Rotors:-	Glass Reinforced/Teflon Filled PPS (*Ryton*®)
	Rotor Pins:-	Ceramic *(High Purity Alumina, $AL_2 0_3$)*

Specifications

Model prefix :	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	-20ºC ~ +80ºC (-4ºF ~ +180ºF), refer factory for lower temperature
Maximum pressure	*(Threaded meters)bar (PSI)*
PPS meters	5 *(70)*
Electrical - *for pulse meters (see below for optional outputs)*	
Output pulse resolution	pulses / litre *(pulses / US gallon)* - nominal
Reed switch	27 *(102)*
Hall effect	107 *(405)*
Quadrature Hall option	54 *(204)*
Reed switch output	30Vdc x 200mA max. *(maximum thermal shock 10ºC (18ºF) / minute)*
Hall effect output (NPN)	3 wire open collector, 5~24Vdc max., 20mA max.
Optional outputs	4~20mA, scaled pulse, quadrature pulse, flow alarms or two stage batch control
Physical	
Protection class	IP66/67 (NEMA4X), optional Exd I/ IIB T4/T6, integral ancillaries can be supplied I.S. (intrinsically safe)
Overall dimensions	Refer Below
Recommended filtration	150 microns (100 mesh)

* *Maximum flow is to be reduced as viscosity increases, see flow de-rating guide. Max. Reccomanded pressure drop is 100Kpa. (15 psi).*

Over all Dimensions:



All Dimensions in Millimeters ±2mm:

OPTION	B	C
EB10/RT12 GRN HOSING	167	124
RT40/RT12 ALLOY HOUSING	170	96
BT11	158	94
COVER	123	74

Model Coding -
Flomec PPS Pulse Meter

Meter Size

OM025	25mm (1")	10-150 L/min	2.6-40 GPM

Body material

P	Glass Reinforced PPS

Rotor material

0	PPS - Teflon Filled (Polyphenylene Sulfide)
1	Keishi cutting of PPS rotors

Bearing type

0	No Bearing-PPS rotors only

O-ring material

1	Viton (standard); -15ºC (+5ºF) minimum
2	Ethylene Propylene Rubber (EPR)
3	Teflon encapsulated viton - application specific; -15ºC (+5ºF) minimum
4	Buna-N (Nitrile)

Temperature limits

- 8	80ºC (180ºF)

Process connections

1	BSP female threaded
2	NPT female threaded

Cable entries

Exclusive to B2 & B3 options	0	3~6mm cable gland or no cable entry
	1	M20 x 1.5mm
	2	1/2" NPT

Integral options

	00	Nil
	RS	Reed Switch Only -to suit Intrinsically Safe Installations (I.S)
	QP	Quadrature pulse (2 NPN Phased outputs)
	PF	Pulsating flow option (hall effect output only)
with scaleable pulse output	B2	BT11 dual totaliser with pulse output
IECEX & ATEX approved	B3	Intrinsically safe BT11 (I.S.)
Scaled pulse, alarm, 4 ~ 20mA	R0	RT12 Flow Rate Totaliser with all outputs (Alloy Housing)
Scaled pulse, alarm, 4 ~ 20mA	R2	RT12 Flow Rate Totaliser with all outputs (GRN Housing)
IECEX & ATEX approved	R3	Intrinsically safe RT12 (I.S.) (GRN Housing)
Scaled pulse + Backlighting	R4	RT40 large LCD flow rate totaliser (Alloy Housing)
2 stage DC batcher and totaliser	E0	EB10 batch controller
	FI	Loop powered 4 ~ 20mA analog output
	SB	Specific build requirement

Model Code Example:

OM025	P	0	0	1	- 8	1	0	B2

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Data sheet No. DSOMP-0213