

**Trimec Multipulse Range** of 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)

## 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.

## Integral Instruments

**Trimec** 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

<b>Flow Range:</b>	10 ~ 150 litres / min. (2.6~ 40 USgal/min)
<b>Size:</b>	25mm (1"NB)
<b>Materials:</b>	Meter Body: - Glass Reinforced PPS ( <i>Ryton</i> ) Meter Cap: - Glass Reinforced PPS ( <i>Ryton</i> ) Rotors: - Glass Reinforced/Teflon Filled PPS ( <i>Ryton</i> ) Rotor Pins: - Ceramic ( <i>High Purity Alumina, AL<sub>2</sub>O<sub>3</sub></i> )



Blind Pulse Meter



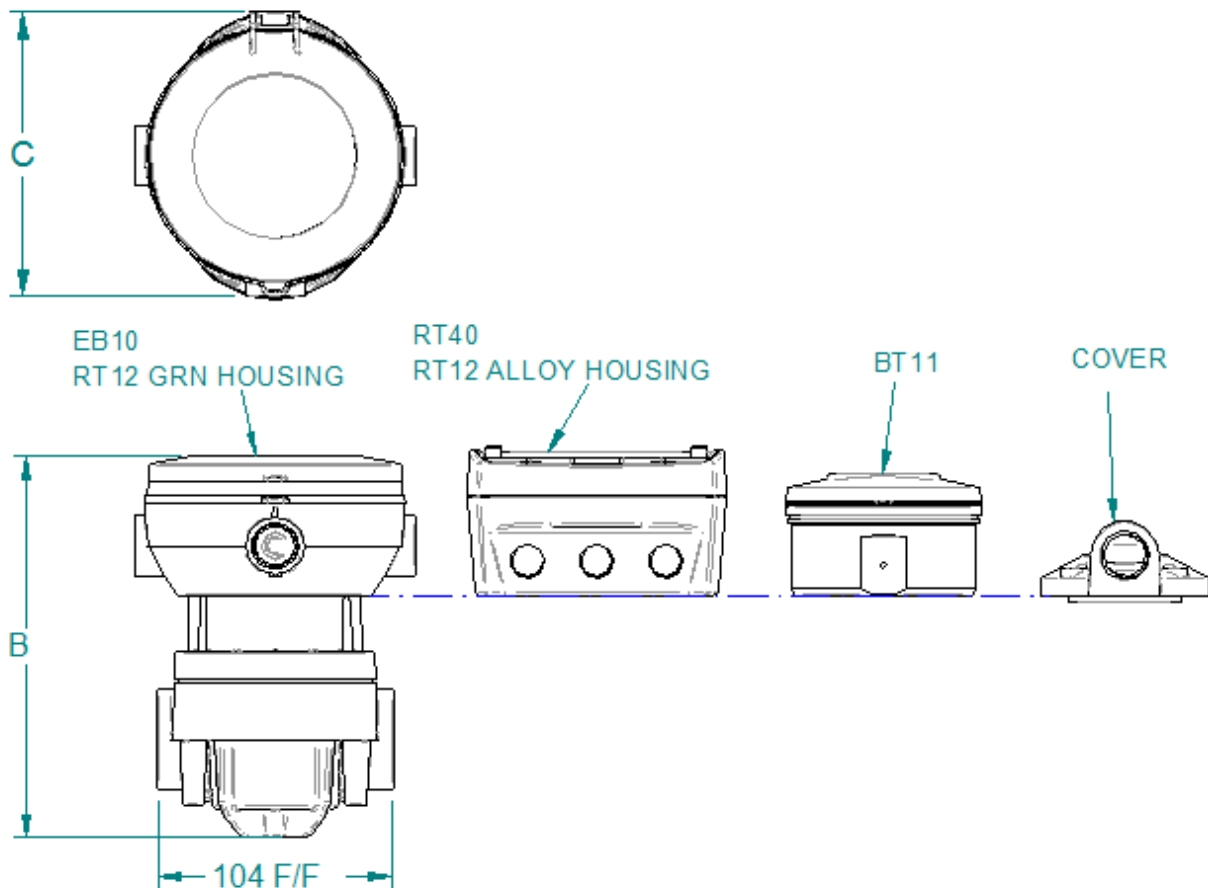
With LCD Register

## Specifications

<b>Model prefix :</b>	<b>MG025 (1")</b>
<b>Nominal size ( inches )</b>	25mm (1")
<b>*Flow range - (litres/min)</b>	10 ~ 150
<b>(US gal/min)</b>	2.6 ~ 40
<b>**Accuracy @ 3cp</b>	± 0.5% of reading ( accuracy is ± 0.2% of reading with optional RT12 with non-linearity correction )
<b>Repeatability</b>	typically ± 0.03% of reading
<b>Temperature range</b>	-20°C ~ +80°C ( -4°F ~ +180°F ), refer factory for lower temperature
<b>Maximum pressure</b>	(Threaded meters) bar (PSI)
<b>PPS meters</b>	5 (70)
<b>Electrical - for pulse meters ( see below for optional outputs )</b>	
<b>Output pulse resolution</b>	pulses / litre ( pulses / US gallon ) - nominal
<b>Reed switch</b>	27 (102)
<b>Hall effect</b>	107 (405)
<b>Quadrature Hall option</b>	54 (204)
<b>Reed switch output</b>	30Vdc x 200mA max. ( maximum thermal shock 10°C (18°F) / minute )
<b>Hall effect output (NPN)</b>	3 wire open collector, 5~24Vdc max., 20mA max.
<b>Optional outputs</b>	4~20mA, scaled pulse, quadrature pulse, flow alarms or two stage batch control
<b>Physical</b>	
<b>Protection class</b>	IP66/67 (NEMA4X), optional Exd I/ IIB T4/T6, integral ancillaries can be supplied I.S. ( intrinsically safe )
<b>Overall dimensions</b>	Refer Below
<b>Recommended filtration</b>	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).

## Overall Dimensions



## All Dimensions in Millimeters ± 2mm

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

## Model Coding - Trimec PPS Pulse Meter



### Meter Size

<b>MG025</b>	25mm ( 1" )	10-150 L/min	2.6-40 GPM
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### Body material

<b>P</b>	Glass Reinforced PPS
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### Rotor material

<b>0</b>	PPS - Teflon Filled (Polyphenylene Sulfide)
<b>1</b>	Keishi cutting of PPS rotors

### Bearing type

<b>0</b>	No Bearing-PPS rotors only
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### O-ring material

<b>1</b>	Viton ( standard ); -15°C (+5°F) minimum
<b>2</b>	Ethylene Propylene Rubber (EPR)
<b>3</b>	Teflon encapsulated viton - application specific; -15°C (+5°F) minimum
<b>4</b>	Buna-N ( Nitrile )

### Temperature limits

<b>8</b>	80°C ( 180°F )
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### Process connections

<b>1</b>	BSP female threaded
<b>2</b>	NPT female threaded

### Cable entries

<b>1</b>	M20 x 1.5mm
<b>2</b>	1/2" NPT

### Integral options

<b>00</b>	Nil
<b>RS</b>	Reed Switch Only -to suit Intrinsically Safe Installations (I.S)
<b>QP</b>	Quadrature pulse ( 2 NPN Phased outputs)
<b>PF</b>	Pulsating flow option (hall effect output only)
<b>B2</b>	BT11 dual totaliser with pulse output
<b>B3</b>	Intrinsically safe BT11 ( I.S. )
<b>R0</b>	RT12 Flow Rate Totaliser with all outputs (Alloy Housing)
<b>R2</b>	RT12 Flow Rate Totaliser with all outputs (GRN Housing)
<b>R3</b>	Intrinsically safe RT12 ( I.S. ) (GRN Housing)
<b>R4</b>	RT40 large LCD flow rate totaliser (Alloy Housing)
<b>E0</b>	EB10 batch controller
<b>FI</b>	Loop powered 4 ~ 20mA analog output
<b>SB</b>	Specific build requirement

with scaleable pulse output
IECEX & ATEX approved
Scaled pulse, alarm, 4 ~ 20mA
Scaled pulse, alarm, 4 ~ 20mA
IECEX & ATEX approved
Scaled pulse + Backlighting
2 stage DC batcher and totaliser

**MG025 P 0 0 1 - 8 1 1 R2**



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