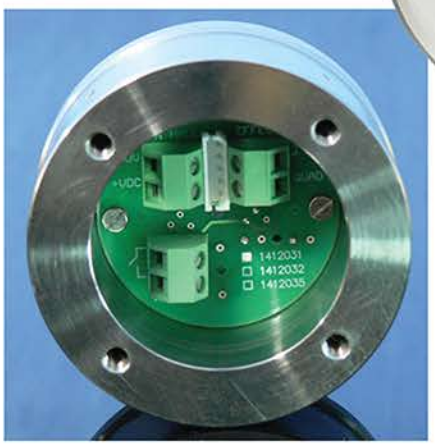


Flomec small capacity flowmeters

Volumetric flow measurement of clean liquids or low flows used in automotive, aviation, mining, power, chemical, pharmaceutical, food, paint, petroleum industries and environmental applications.

For metering additives for fuel, consumer products, water treatment and flotation cells, corrosion inhibitors, catalysts, emulsifiers, oils, grease, fragrances, adhesives, solvents, ink and insecticides. .

Features / Benefits

- High accuracy and repeatability, direct volumetric reading
- No requirement for flow conditioning (straight pipe runs)
- Stainless Steel rotors (Optional PPS Rotor for OM008 meter)
- Measures high and low viscosity liquids
- Quadrature pulse output option and bi-directional flow
- Optional Exd I/IIB approval (ATEX, IECEx)
- PF option available for metering pulsating flows
- Only two moving parts

Meter Selection

- **Aluminium** meters for petroleum products (oils and grease, fuels and fuel oils)
- **Stainless steel** meters for the chemical, cosmetic, food and pharmaceutical industries (water based liquids)
- **Blind pulse** meters available with reed switch and Hall Effect outputs. Optional Quadrature pulse and Integral 4-20mA outputs available

Integral Instruments

Options include integral LCD totalisers, flow rate totalisers and batch controllers (4-20mA, scaled pulse, alarms and batch control)

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

(Available for remote mounting and with I.S. approvals)

General Specification

Flow Rates: 0.16 - 145 US gal/hr. (0.5 - 550 litres / hr.)*
Sizes: 1/8" - 3/8" NB (4 - 8mm)
Materials: Aluminium, 316 Stainless steel

NMI Approved Meters

Meters 1" and above available with optional NMI pattern approval and quadrature pulse output

National Measurement Institute (NMI) Weights and Measures Approval – Australia

* *See also **Medium and Large Capacity** data sheets for other size meters.*

Specifications

Model Prefix:	OM004 (1/8")	OM006 (1/4")	OM008 (3/8")
Nominal size (inches):	1/8" (4mm)	1/4" (6mm)	3/8" (8mm)
*Flow range - (GPH):	(0.13-9.5)	(0.5-27)	(4-145)
- (LPH):	(0.5 - 36)	(2 - 100)	(15 - 550)
**Accuracy @ 3cp:	± 1% of reading (accuracy is ± 0.2% of reading with optional RT12 with non-linearity correction)		
Repeatability:	Typically ± 0.03% of reading		
Temperature range:	-4° F - +250° F (-20° C - +120° C), refer factory for lower temperature		
Maximum pressure:	**PSI (bar) Threaded Meter**		
Aluminium meters:	220 (15)		
316 stainless steel:	495 (34)		
Intermediate press. SS meter:	1450 (100)		
High pressure models:	5800 (400)		

Electrical - for pulse meters (see below for optional outputs)

Output pulse resolution:	Pulses / gallon (Pulses / litre) - nominal		
Reed switch:	10600 (2800)	3975 (1050)	1345 (355)
Hall effect:	10600 (2800)	3975 (1050)	2690 (710)
QP-Quadrature Hall option:	10600 (2800)	3975 (1050)	2690 (710)
PF-Pulsating Flow (Hall Effect):	10600 (2800)	3975 (1050)	675 (178)
HR-High resolution Hall effect:	42400 (11200)	15900 (4200)	N/A
Reed switch output:	30Vdc x 200mA max. [maximum thermal shock 18° F (10° C) / 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		

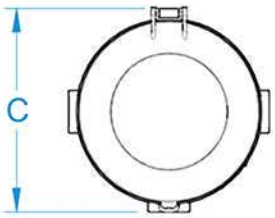
Physical

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:	200 mesh (75 microns)

* Maximum flow is to be reduced as viscosity increases, see flow de-rating guide. Max. recommanded pressure drop is 100Kpa. (14.5 psi)
** QP and PF Options are not available with High Pressure Meters

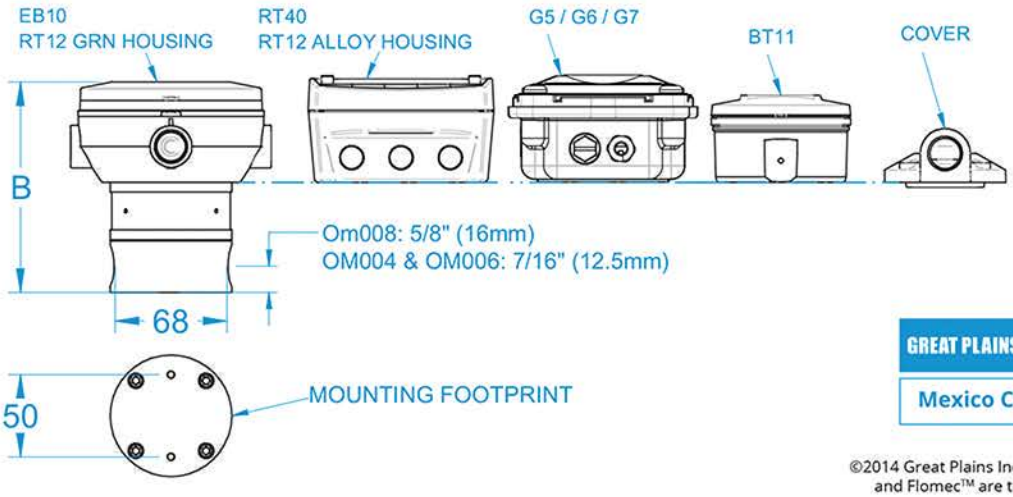
All dimensions are inches ± .079 (millimeters ±2mm)

OPTION	B			C
	OM004	OM006	OM008	
EB10 / RT12 GRN HOUSING	4.8 / 122	4.8 / 122	5.0 / 129	4.9 / 124
RT40 / RT12 ALLOY HOUSING, G5 / G6 / G7	4.9 / 125	4.9 / 125	5.2 / 132	3.8 / 96
BT	4.4 / 113	4.4 / 113	4.7 / 120	3.7 / 94
COVER	3.6 / 92	3.6 / 92	3.9 / 99	2.8 / 72



Service & Warranty: For technical assistance, warranty replacement or repair contact your Flomec distributor or GPI:

In North or South America: **888-996-3837 / GPI.net**
Outside North or South America: **+61 2 9540 4433 / flomec.com.au**



GREAT PLAINS INDUSTRIES GPI
Mexico City · Sydney · Wichita

MODEL CODING

FLOMEC™ OM^ Oval Gear Pulse Meter			
^Includes MG oval gear meters			
Model	**Size**		
OM004^	1/8"	(4mm)	0.5~36 L/hr 0.13~9.5 GPH
OM006^	1/4"	(6mm)	2~100 L/hr 0.5~27 GPH
OM008^	3/8" (1/4" high press.)	(8mm)	15~550 L/hr 4~145 GPH

	Body material
A	Aluminium
S	316L Stainless Steel
N	Intermediate pressure 316L SS meters (100 bar [1450psi])
H	High Pressure 316SS (400bar [5800psi], 008H has ¼" connection)

	Rotor material
0	PPS - Teflon filled (Polyphenylene Sulfide) (not available for 150°C meters)only available in OM008
1	Keishi cut PPS rotors (for high viscosity liquids) (not available for 150°C meters) only available in OM008
5	Stainless steel (standard on OM004 & OM006, optional on other sizes)
7	Keishi cut stainless steel rotors (for high viscosity liquids) only available in OM008

	Bearing type
0	No Bearing (PPS rotors only) only available in OM008
1	Carbon Ceramic (stainless steel rotors only)

	O-ring material
1	Viton (standard) -15°C minimum (-5°F)
2	EPR (Ethylene Propylene Rubber) - for ketones only
3	Teflon encapsulated viton
4	Buna-N (Nitrile), -40°C minimum (-40°F)

		Temperature limits
-	**2**	120°C (250°F) max. (reduced to 80°C when fitted with integral instruments)
-	**3**	150°C (300°F) max. (Hall only, not avail. w/- HP meters) (SS terminal cover)
-	**5**	*120°C (250°F) max. (includes integral cooling fin)
-	**8**	80°C (176°F) max. (applies only to OM008 with PPS rotors)

	Process connections
1	BSPP (G) female threaded
2	NPT female threaded

		Cable entries
Exclusive to B2,B3, G5, G6, G7 options	**0**	3~6mm cable gland or no cable entry (004~008 sizes & H bodies)
	1	M20 x 1.5mm (M16 x 1.5mm for R0 and R4 options)
	2	1/2" NPT
	6	3 x 16mm drilled holes (for F instruments only)

		Integral options
		Nil
	SS	Stainless steel terminal cover
	RS	Reed Switch only - to suit Intrinsically safe installations
IECEx & ATEX approved	**E1**	Explosionproof Exd IIB T4/T6 (aluminum & stainless meters)
IECEx & ATEX mines approved	**E2**	Explosionproof Exd I/IIB T4/T6 (stainless meters only)
ANZEx approved	**E3**	ANZEx certified EXd IIB T4/T6
ANZEx mines approved	**E4**	ANZEx certified EXd I/IIB T4/T6 (mines approval, SS meters only)
not available with high press models	**QP**	Quadrature pulse (2 NPN phased outputs)
IECEx & ATEX approved	**Q1**	Explosionproof Exd (with quadrature pulse but n/a with HP meter)
N/A FOR OM008	**HR**	High resolution Hall effect output (Hall Effect only)
N/A FOR OM008	**H1**	Explosionproof ~ Exd with HR Hi-res. Hall option
for injected combustion engines	**PF**	Pulsating flow option (Hall effect output only)
IECEx & ATEX approved	**P1**	Explosionproof ~ Exd with PF pulsating flow option
with scaleable pulse output	**B2**	*BT11 totaliser with pulse output
IECEx & ATEX approved	**B3**	*Intrinsically safe BT11 with pulse output
scaled pulse, alarms, 4~20mA	**R0**	*RT12 rate totaliser with all outputs (Alloy housing)
scaled pulse, alarms, 4~20mA	**R0P**	*RT12 rate totaliser (Alloy housing with facia protector)
scaled pulse, alarms, 4~20mA	**R2**	*RT12 rate totaliser with all outputs (GRN housing)
IECEx & ATEX approved	**R3**	*Intrinsically safe RT12 with all outputs (GRN housing)
scaleable pulse output, backlight	**R4**	*RT40 rate totaliser with backlit large digit LCD (Alloy housing)
scaleable pulse output, backlight	**R4P**	*RT40 rate totaliser (Alloy housing with facia protector)
2 stage DC batcher & totaliser	**E0**	*EB10 batch controller
	G5	GG500 display
	G6	GX500 display with 4-20mA transmitter
	G7	GA500 4-20mA transmitter
IECEx & ATEX approved	**E10**	ATEX/IECEx EXd E110 backlit rate/tot, pulse, 4-20mA (Al)
IECEx & ATEX approved	**E11**	ATEX/IECEx EXd E110 backlit rate/tot, pulse, 4-20mA (SS)
IECEx & ATEX approved	**E12**	ATEX/IECEx EXd E112 backlit rate/tot, pulse, 4-20mA, 16 pt lin. (Al)
IECEx & ATEX approved	**E13**	ATEX/IECEx EXd E112 backlit rate/tot, pulse, 4-20mA, 16 pt lin. (SS)
IECEx & ATEX approved	**E18**	ATEX/IECEx EXd E018 backlit rate/tot, pulse, 4-20mA, lin, HART (Al)
IECEx & ATEX approved	**E19**	ATEX/IECEx EXd E018 backlit rate/tot, pulse, 4-20mA, lin, HART (SS)
	F10	F110 backlit rate/tot, pulse out and 4-20mA
	F11	Intrin. safe F110 backlit rate/tot, pulse out and 4-20mA
	F12	F112 backlit rate/tot, pulse out, 4-20mA and 10 pt lin.
	F13	Intrin. safe F112 backlit rate/tot, pulse out, 4-20mA and 10 pt lin.
	F16	F116 backlit Differential/Sum indicator, pulse out and 4-20mA
	F18	F018 backlit rate/tot, pulse out, 4-20mA, 10 pt lin, HART
	F19	Intrin. Safe F018 backlit rate/tot, pulse, 4-20mA, 10 pt lin, HART
	SB	Specific build requirement

* Temp code 5 required with integral LCD instruments when operating temperature falls between 80ºC (180ºF)~120ºC (250ºF)

Model No. Example									
OM006	**S**	**5**	**1**	**1**	-	**5**	**1**	**1**	**R2**