

Small capacity flowmeters

FLOMEC small capacity flowmeters provide precise volumetric measurement of small quantities of liquids or low flows found in a broad range of industries including automotive, aviation, mining, power, chemical, pharmaceutical, food, paint, petroleum & environmental. Applications include the metering of additives for fuel, consumer products, water treatment & flotation cells, corrosion inhibitors, catalysts, emulsifiers, oils, grease, fragrances, adhesives, solvents, ink & insecticides.

FEATURES/BENEFITS

- High accuracy & repeatability, direct reading flowmeter
- No requirement for flow conditioning (straight pipe runs)
- Stainless steel rotors
- Measures high & low viscosity liquids
- Quadrature pulse output option & bi-directional flow

METER SELECTION

- Aluminum meters are used for petroleum products including oils and grease, fuels and fuel oils.
- Stainless steel meters are for the chemical, cosmetic, food, and pharmaceutical industries & water based liquids.
- Blind pulse meters are available with a reed switch & open collector outputs. Quadrature pulse outputs are optional.

INTEGRAL INSTRUMENTS

FLOMEC 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. Instruments include:

- BT 5 digit reset, 8 digit cumulative totaliser.
- RT 6 digit reset, cumulative totaliser & flow rate.
- EB 6 digit 2 stage batcher & cumulative totaliser.

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

GENERAL SPECIFICATION

Flow rates	:	0.5 $^{\sim}$ 550 litres / hr. (0.16 $^{\sim}$ 145 USgal/hr) *
Sizes	:	4~8mm (1/8~3/8" NB)
Materials	:	Aluminum or 316 Stainless steel

* see also medium & large capacity data sheets for other size meters

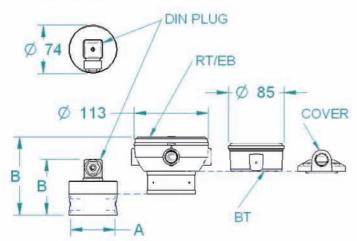


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Specifications

Model prefix :	OM004	OM006	OM008	
Nominal size (inches)	4mm (1/8")	6mm (1/4")	8mm (3/8")	
Flow range - litres / hr	0.5 - 36	2 - 100	15 ~ 550	
(US gal./hr)	(0.13 ~ 9.5)	(0.5 ~ 27)	(4 - 145)	
Accuracy @ 3cp	±1% o.r. (±0.2% with optional RT12 using NLC)			
Repeatability	typically ± 0.03%			
Temperature range	-20°C ~ +120°C (-4°F ~ +250°F)			
Maximum pressure				
aluminium	15 bar (220 psig)			
316L stainless	34 bar (500 psig)			
high pressure stainless	400 bar (5800 psig)			
Protection class	IP66/67 (NEMA4X), optional Exd IIB T6 or I.S.			
Recommended filtering	75 micron (200 mesh) minimum			
Electrical - for pulse mete	rs (see also optio	nal outputs)		
Output pulse resolution	pulses / litre	(pulses / US gal	lon) - nominal	
Reed switch	2890 (10940)	2100 (7950)	355 (1345)	
Hall effect	2890 (10940)	2100 (7950)	710 (2690)	
** Reed switch output	30Vdc x 200mA max.			
Hall effect output (NPN)	3 wire open collector, 5~24Vdc max., 20mA max			
Optional functions				
Display	flowrate, total (accumulative & resettable)			
Preset batching	1 & 2 stage high speed batch control			
Optional outputs				
Flow	4 - 20mA, high & low flow rate alarms			
Pulse	scaled pulse (programmable), pulse amplifier			

DIMENSIONS



ALL DIMENSIONS IN MILLIMETERS

	Α		в	в
Thread		Configuration	OM004/006	OM008
B.S.P.	68	DIN PLUG	79	86
N.P.T. 6	68	RT/EB REGISTER	112	119
		BT REGISTER	103	110
		COVER	92	99

Model coding OM004 4mm (1/8") OM006 6mm (1/4") 8mm (3/8") **OM008 Body material** Aluminum S 316 Stainless Steel H High Pressure 316SS **Rotor material** 5 316 stainless steel Bearing type 1 Ceramic O-ring material Viton (standard) -15~+200°C (-5~+400°F) 2 Ethylene Propylene Rubber -150°C (300°F) max. 3 Teflon encapsulated viton -150°C (300°F) max. 4 Buna-N (Nitrile) -65-+100°C (-53-+212°F) **Temperature limits** 120°C (250°F) - see note 1 - 5 120°C (250°F) - see note 2 Process connections BSP female threaded NPT female threaded **Cable entries** with DIN plug & BT11 only 0 3~6mm cable gland M20 x 1.5mm 1 2 1/2" NPT Model No. Example OM006 S 5 1 1 - 5 1 2 R2 Integral options Quadrature pulse output 2 NPN open collector phased outputs QF Explosion proof ~ Exd E1 IECEX & ATEX approved Exd with Quadrature pulse IECEX & ATEX approved Q1 accum. & reset totals, pulse output

B2 BT11 dual totaliser IECEX & ATEX approved B3 Intrinsically safe BT11 (I.S.) flow rate, totals & all outputs **R2 RT12 Flow Rate Totalise** IECEX & ATEX approved R3 Intrinsically safe RT12 (I.S.) E0 EB10 batch controller dc 2 stage batch controller consult factory SB Specific build requirement

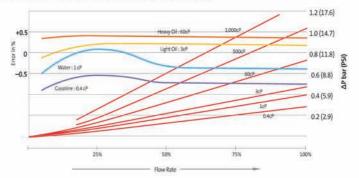
(1) 120°C (250°F) rating of the pulse meter, 80°C (180°F) rating with BT, RT & EB options. See temperature code 5 for higher temperature with BT, RT, & EB (2) Cooling fin is fitted with integral instruments for operation from 80-120°C (180-250°F)

Recommended strainer

ST004S1	4mm (1/8") - 316SS
ST006S1	6mm (1/4") - 316SS
ST008S1	8mm (3/8*) - 316SS



ACCURACY & PRESSURE DROP





In the interest of product development, the design & specifications may alter without notification

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