

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 ~ 550 litres / hr. (0.16~ 145 USgal/hr)*

Sizes : 4~8mm (1/8~3/8" NB)

Materials : Aluminum or 316 Stainless steel

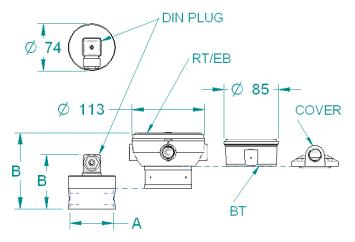
* see also medium & large capacity data sheets for other size meters



Specifications

Model prefix :	OM004	OM006	800MO		
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 R	T12 using NLC)		
Repeatability		typically ± 0.03%			
Temperature range	-20°C ~	+120°C (-4°F ~ +	·250°F)		
Maximum pressure					
aluminium		15 bar <i>(220 psig)</i>			
316L stainless		34 bar <i>(500 psig)</i>			
high pressure stainless		refer factory			
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 optional outputs)				
Output pulse resolution	pulses / litre (pulses / US gallon) - nominal				
Reed switch	2890 (10940)	2100 (7950)	355 <i>(1345)</i>		
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	800MO
B.S.P.	68	DIN PLUG	79	86
N.P.T.	68	RT/EB REGISTER	112	119
		BT REGISTER	103	110
		COVER	92	99

Model coding

OM004	4mm (1/8")			
OM006	6mm (1/4")			
OM008	8mm (3/8")			
Body material				

Aluminum

316 Stainless Steel High Pressure 316SS

Rotor material

5 316 stainless steel Bearing type 1 Ceramic



1	
3	Ethylene Propylene Rubber -150°C (300°F) max.
	Tonon ondapodiated vitori 100 o (000 1) maxi
4	Buna-N (Nitrile) -65~+100°C (-53~+212°F)

		Temperature limits
-	2	120°C (250°F) - see note 1
-	5	120°C (250°F) - see note 2

1	BSP female threaded			
2	NPT female threaded			
Cable entries				

SB Specific build requirement

with DIN plug & BT11 only		3~6mm cable gland		
	1	M20 x 1.5mm		
	2	1/2" NPT		

Model No. Example

OMOUG S 5 1 1 1 - 5 1 2 R2				
		Integral options		
2 NPN open collector phased outputs	QP	Quadrature pulse output		
IECEX & ATEX approved	E1	Explosion proof ~ Exd		
IECEX & ATEX approved	Q1	Exd with Quadrature pulse		
accum. & reset totals, pulse output	B2	BT11 dual totaliser		
IECEX & ATEX approved		Intrinsically safe BT11 (I.S.)		
flow rate, totals & all outputs	R2	RT12 Flow Rate Totaliser		
IECEX & ATEX approved	R3	Intrinsically safe RT12 (I.S.)		
de 2 stage hatch controller	FO	EB10 batch controller		

(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 ($180\sim250^\circ F$)

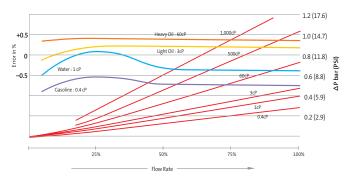
Recommended strainer

consult factory

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



ACCURACY & PRESSURE DROP





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