



MICROPULSE GEAR - Small capacity meters

The Micropulse Oval series PD flowmeters offer a high level of accuracy turndown & repeatability. These precision meters are used for flow rate measurement in flow monitoring & control application and for totalizing in dispensing and batching.

Micropulse gear meters are suitable for use with a wide range of clean liquids including viscous lubricants, chemicals, food bases & non-conductive low viscosity solvents either pumped or gravity fed.

FEATURES :

- High accuracy & repeatability.
- Measure low & high viscosity liquids.
- Optional electronic registers.
- Certified Exd hazardous area versions in all sizes.
- No need for flow conditioning (*straight pipe run etc.*)
- Quadrature pulse output option & bi-directional flow.
- Specialty high pressure meters for mining & exploration.

STANDARD OPTIONS :

High resolution output, Explosionproof, integral and remote LCD totaliser-batch totaliser, flow rate totalisers, scaled pulse, 4~20mA & flow alarm outputs, electronic batch controllers and pulse processing modules.

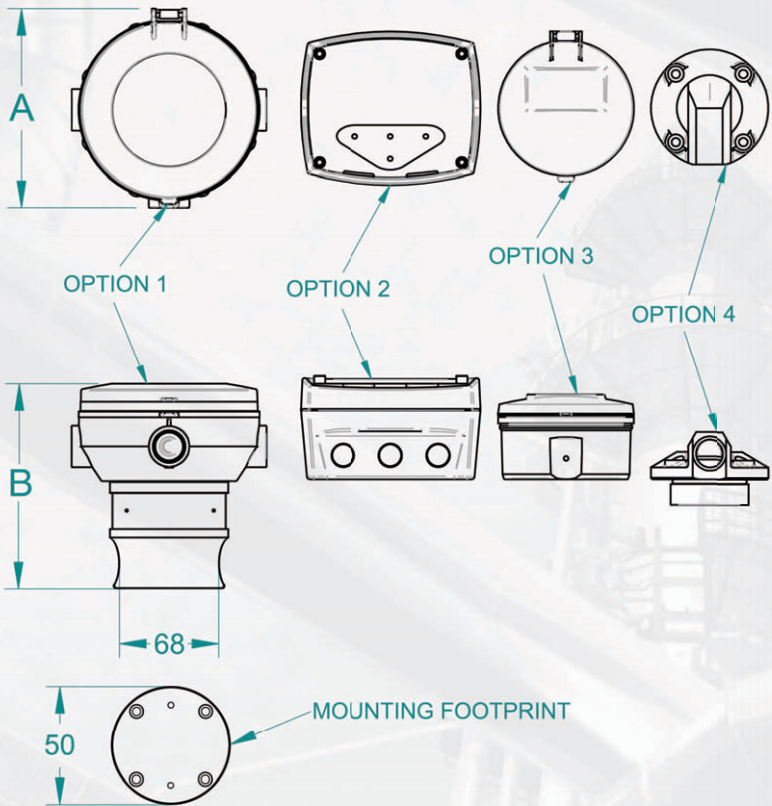
GENERAL SPECIFICATIONS

Model prefix : :	MG004	MG006	MG008
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 NL correction)		
Repeatability	typically ± 0.03%		
Temperature range	-20°C ~ +120°C (-4°F ~ +250°F)		
Maximum pressure	bar (PSI)		
aluminium	15 (220)		
316L stainless	34 (500)		
high pressure stainless	Refer Page 9		
Protection class	IP66/67 (NEMA4X), optional Exd IIB T6 or I.S.		
Recommended filtering	75 micron (200 mesh) minimum		
Electrical - for pulse meters (see also optional outputs)			
Output pulse resolution	pulses / litre (pulses / US gallon) - nominal		
Reed switch	2800 (10600)	1050 (4000)	355 (1345)
Hall effect	2800 (10600)	1050 (4000)	710 (2690)
High Resolution Hall effect	11220 (42470)	4200 (15900)	N/A
** Reed switch output	30Vdc x 200mA max.		
Hall effect output (NPN)	3 wire open collector, 5~24Vdc, 20mA max.		

* Max. flow is to be reduced as viscosity increases, max. pressure drop 100Kpa. (15 psi)

TECHNICAL INFORMATION
SMALL CAPACITY OVALMETERS

DIMENSIONS



	B	B	B	A
OPTIONS	MG004	MG006	MG008	OPTIONS
1 - RT EB	122	122	129	124
2 - RT Alloy	125	125	132	96
3 - BT	113	113	120	94
4 - Cover	94	94	99	72

MODEL CODING

MG004	4mm (1/8")
MG006	6mm (1/4")
MG008	8mm (3/8")

Body material

A	Aluminum
S	316 Stainless Steel
H	High Pressure 316 stainless steel

Rotor material

5	316 stainless steel
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Bearing type

1	Ceramic
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O-ring material

1	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

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

Process connections

1	BSP female threaded
2	NPT female threaded

Cable entries

0	3~6mm cable gland
1	M20 x 1.5mm
2	1/2" NPT

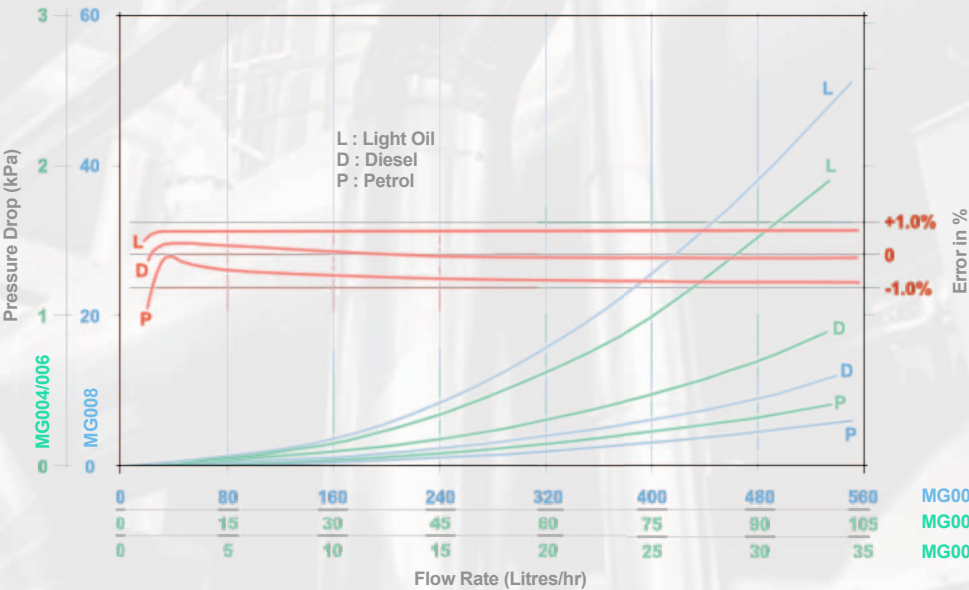
Model No. Example

MG006 S 5 1 1 - 5 1 2 R2

Integral options

glass reinforced nylon (GRN)	GRN terminal cover (std.)
	SS Stainless terminal cover
IECEX & ATEX approved	E1 Explosion proof ~ Exd
2 NPN open collector phased outputs	QP Quadrant pulse output
IECEX & ATEX approved	Q1 Exd with Quadrature pulse
MG004 = 11200ppL, MG006 = 4200ppL	HR High resolution Hall Effect output
IECEX & ATEX approved	H1 Exd with HR high resolution Hall
for injected combustion engines	PF Pulsating flow option (Hall effect only)
IECEX & ATEX approved	P1 Explosion proof ~ Exd with PF option
with scaleable pulse output	B2 BT11 dual totaliser
IECEX & ATEX approved	B3 Intrinsically safe BT11 (I.S.)
flow rate, totaliser & all outputs	R2 RT12 Flow Rate Totaliser
IECEX & ATEX approved	R3 Intrinsically safe RT12 (I.S.)
large digit flow rate, totals	R4 RT20 Flow Rate Totaliser
adapts to pulse output board	FI Loop powered 4~20mA output
dc powered 2 stage batch controller	E0 EB10 batch controller
consult factory	SB Specific build requirement

PRESSURE DROP & ERROR CURVES



for individual data sheets:

www.trimecind.com