TRIVIEC

Trimec Maxipulse Range of positive displacement flowmeters offer a high level of accuracy and repeatability. These precision meters are used for flowrate measurement in flow monitoring and control applications and for totalizing in dispensing and batching. Maxipulse meters are suitable for use with a wide range of clean liquids including viscous lubricants, chemicals, food bases and non-conductive low viscosity solvents either pumped or gravity fed.

Features / Benefits

- High accuracy & repeatability, direct reading flowmeter
- No requirement for flow conditioning (straight pipe runs etc)
- Various rotor material options
- Measures high & low viscosity liquids
- Quadrature pulse output option & bi-directional flow
- Integral 4-20mA output option
- Optional Exd I/IIB approval (ATEX, IECEx)



Meters are selected based on flow range, pressure, temperature, material compatibility and functionality.

- Aluminium Maxipulse meters are ideal for petroleum products including oils and grease, fuels and fuel oils.
- Stainless steel meters are suited for chemicals, water based products or where aluminium is not suited or permitted.
- Maxipulse meters are available as blind meters with pulse output (Reed & Hall Effect) or with integral or remote totalisers, flow rate displays or preset batch controllers.
- Pulse meter outputs can be interfaced to most electronic displays or instrumentation. Quadrature pulse & Integral 4-20mA outputs are optional.

Integral instruments

Trimec 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 & analog 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

Flow rates : 35 ~ 2500 litres /min. (10~ 660 USgal/min.) *

Sizes : 80~100mm (3"~4" NB)

Materials : Aluminium, 316 Stainless steel or ductile iron

* see also data sheets for other size meters

NMI Approved Meters

Many applications require the use of NMI approved meters.

Trimec Series Flowmeters 1" and above are available with optional NMI pattern approval with quadrature pulse output.



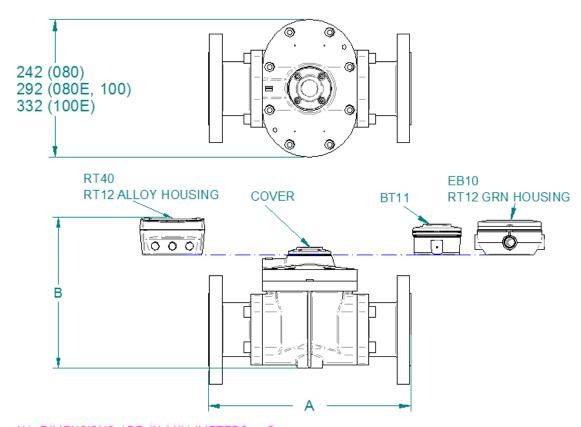




Specifications

Model Prefix	MG080 (3")	MG080 (3") E	MG100 (4")	MG100 (4") E			
Nominal size (inches)	80mm (3")	80mm (3") E	100mm (4")	100mm (4") E			
*Flow range - litres/min	35 ~ 750	50 ~ 1000	75 ~ 1500	150 ~ 2500			
- US gal/min	10 ~ 200	13 ~ 260	20 ~ 400	40 ~ 660			
**Accuracy @ 3cp	± 0.5% of reading (ad	ccuracy ± 0.2% of reading with	optional RT12 with non-line	earity correction)			
Repeatability		typically ± 0.03%	of reading				
Temperature range	-20°C ~	+120°C (-4°F ~ +250°F), refe	er factory for lower tempera	ture			
Maximum pressure	(Thr	eaded meters)bar (PSI)					
aluminium meters	12 <i>(1</i> 75)	12 <i>(175)</i>	10 (145)	10 (145)			
316 stainless steel meters	12 <i>(1</i> 75)	-	-	-			
ductile iron	12 <i>(175)</i>	-	10 <i>(145)</i>	-			
Electrical - for pulse meters (see b	elow for optional outputs)						
Output pulse resolution		pulses / litre (pulses / U	S gallon) - nominal				
Reed switch	2.65 (10)	1.55 (5.68)	1.1 (4.15)	0.56 (2.1)			
Hall effect	10.65 (40.5)	6.0 (22.7)	4.4 (8.3)	2.24 (8.5)			
Quadrature Hall option	5.33 (20)	3.0 (11.36)	2.2 (8.3)	1.12 (4.24)			
Reed switch output	30Vdc x 200mA max. (maximum thermal shock 10°C (18°F) / 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	commended filtration 350 microns (40 mesh)						
* Maximum flow is to be reduced as vi	iscosity increases, see flow d	e-rating guide. Max. Recomma	anded pressure drop is 100	Kpa (15 psi).			

Over all Dimensions:



ALL DIMENSIONS ARE IN MILLIMETERS ±2mm

	Α	Α	Α	Α		В	В	В	В	В
Modular Fitting	MG 080	MG080E	MG 100	MG100E	Configuration	MG080-A	MG080-S	MG080E	MG100	MG100E
A.N.S.I. 150	354	382	388	414	EB10/RT12 GRN HOUSING	260	257	277	322	399
DIN 16	354	382	388	414	BT11 REGISTER	252	249	269	314	391
JIS 10K	354	382	388	414	RT40/RT12 ALLOY HOUSING	264	260	281	326	403
B.S.P.	266	294	294	320	COVER	213	206	229	274	352
N.P.T.	266	294	294	320						

TRIVIEC

Model Coding-





Batch Totaliser



Meter size

MG080	80mm (3")	35-750 L/min	10-200 GPM	
MG080	80mm (3" extended flow)	50-1000 L/min	13-260 GPM	
MG100	100mm (4")	75-1500 L/min	20-400 GPM	
MG100	100mm (4" extended flow)	150-2500 L/min	40-660 GPM	

Body material

		m		

- E Extended flow Aluminium version
- S 316L Stainless steel (MG080 meter only)
- D Ductile iron (Consult factory for availability)

Rotor material

PPS-Teflon Filled (Polyphenylene Sulfide) (Not available for MG100E)	
Keshi cutting Teflon Filled-PPS rotors (Not available for MG100E)	
4 Aluminium (Aluminium meters only).	
5 Stainless steel (MG080 meter only)	
6 Keishi cutting of Aluminium rotors (for high viscosity liquids)	

7 Keishi cutting of stainless steel rotors (for high viscosity liquids)

,	Dearing type
0	No bearing (PPS rotors only)
1	Carbon-Ceramic (Standard with Stainless steel rotors)
1	Hardened steel roller hearings (Aluminum rotors only)

O-ring material

1	Viton (standard) -15°C (+5°F)minimum
2	Ethylene Propylene Rubber (EPR); -40~+120°C (-40~+250°F)
3	Teflon encapsulated viton - application specific; 15°C (+5°F)minimum
4	Buna-N (Nitrile) -40~+100°C (-40~+212°F)

Temperature limits

-	2	120°C (250°F) - see note 1	
COOK OF COOK Frain City	3	*150 °C (300°F) max.	
0.5	5	*120 °C (250°F) max. (Includes integral cooling fin) see note 2	

Process connections

	1	BSP female threaded
	2	NPT female threaded
* triclamp ferrules are 1/2"	3	* Tri-clamp hygienic ferrules
larger than the meter size	4	ANSI-150 RF flanges
	5	ANSI-300 RF flanges
	6	PN16 DIN flanges
	7	JIS10kg/cm2 flanges
	9	CustMGer nMGinated

Cable entries

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

Integral options 00 Nil

	SS	Stainless Steel Terminal Cover
	RS	Reed Switch Only- to suit Intrinsically Safe Installations (I.S)
	QP	Quadrature pulse (2 NPN Phased outputs)
IECEX & ATEX approved	E1	Explosion proof ~ Exd IIB T4/T6 (Aluminium & stainless meters)
IECEX & ATEX mines approved	E2	Explosion proof ~ Exd I/IIB T4/T6 (stainless meters only)
IECEX & ATEX approved	Q1	Exd with Quadrature pulse
with scaleable pulse output	B2	BT11 dual totaliser with pulse output
IECEX & ATEX approved	B3	Intrinsically safe BT11 (I.S.)
Scaled pulse, alarm, 4 ~ 20mA	R0	RT12 Flow Rate Totaliser with all outputs(Alloy housing)
Scaled pulse, alarm, 4 ~ 20mA	R2	RT12 Flow Rate Totaliser with all outputs (GRN housing)
IECEX & ATEX approved	R3	Intrinsically safe RT12 (I.S.)
Scaled pulse + Backlighting	R4	RT40 large LCD flow rate totaliser (Alloy housing)
2 stage DC batcher and totaliser	E0	EB10 batch controller
	FI	Loop powered 4 ~ 20mA analog output(80°C max)
	A1	Exd with Loop powered 4 ~ 20mA analog output(80°C max)
	SB	Specific build requirement

MG080 A 4 4 1 - 5 1 1 R2 (refer factory for model availability)

(Meter close couple option with strainer/Air-Eliminator, please refer factory for part no. or strainer data sheet)

*(1) 120°C (250°F) rating for the pulse meter, 80°C (180°F) rating with BT, RT ,EB & FI options. See temperature code 5 for higher temperature with BT, RT, & EB

*(2) Cooling fin is fitted with LCD instruments for operation between 80~120°C (180~250°F)



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