OM015, OM025, OM040 & OM050

OM015 (1/2"), OM025 (1"), OM040 (1-1/2") and OM050 (2")

The OM Medium Capacity Oval Gear Meters are great for medium flow ranges and have the ability to handle a wide range of fluid viscosities.

OM Electronic Choices:

Options include electronic LCD totalisers, flowrate totalisers and batch controllers (4-20mA, scaled pulse, alarms and batch control)

- G5 LCD 6-digit reset, cumulative totalizer and flow rate, pulse output
- G6 LCD 6-digit reset, cumulative totalizer and flow rate analog (4-20mA) and pulse outputs
- G7 Blind analog (4-20mA) output
- BT11 LCD 5-digit reset, 8-digit cumulative totalizer, pulse outputs
- RT14 LCD 6-digit reset, cumulative totalizer and flow rate, analog and pulse outputs
- RT40 LCD 6-digit reset, cumulative totalizer and flow rate. Backlit Display, pulse outputs
- EB10 LCD 6-digit 2 stage batcher and cumulative totaliser (Available for remote mounting and with I.S. approvals - RT14 and BT11 only)
- E018 ATEX/IECEx EXd, backlit rate/tot, pulse out, 4-20mA, lin, HART (AL), incl. Line Bushsing
- E018 ATEX/IECEx EXd, backlit rate/tot, pulse out, 4-20mA, lin, HART (SS), incl. Line Bushsing
- F018 backlit rate/tot, pulse out, 4-20mA, 10 pt lin, HART
- F018 Intrinsically Safe backlit rate/tot, pulse out, 4-20mA, 10 pt lin, HART
- F130 2 Stage batch controller backlit
- F130 2 Intrinsically Safe Stage batch controller backlit

ACCURACY: ±0.5% OF READING

Select Your Body Material:

Aluminum or Stainless Steel

Features and Benefits:

- ✓ High accuracy and repeatability, direct volumetric reading.
- ✓ No requirement for flow conditioning (straight pipe runs).
- ✓ Measures high and low viscosity liquids.
- ✓ Quadrature pulse output option and bi-directional flow
- ✓ Blind 4-20mA output option
- ✓ Optional Exd I/IIB approval (ATEX, IECEx)
- ✓ Only two moving parts

SPECIFICATIONS

Model Prefix	OM015 (1/2")	OM025 (1")	OM040 (1.5")	OM050 (2")
Nominal size (inches):	1/2" (15mm)	1" (25mm)	1.5" (40mm)	2" (50mm)
*Flow range - (GPM):	0.26 - 10.6	2.6 - 40	4.0 - 66	8 - 120
- (LPM):	1 - 40	10 - 150	15 - 250	30 - 450
**Accuracy @ 3cp:	± 0.5% of reading (accuracy is ± 0.2% of reading with optional RT14 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 Meters**			
Aluminium meters:	990 (68)	990 (68)	435 (30)	285 (20)
Intermediate press. AL	-	2000 (138)	-	-
316 stainless steel:	990 (68)	990 (68)	435 (30)	550 (38)
Intermediate press. SS meter:	1450 (100)	1450 (100)	725 (50)	725 (50)
Max. pressure Mech. Meter	**PSI (Threaded meters) bar**			
Aluminium meters	**580 (40)**	**580 (40)**	**435 (30)**	**285 (20)**
316 stainless steel	**580 (40)**	**580 (40)**	**435 (30)**	**285 (20)**
Electrical - for pulse meters (see below for optional outputs)				
Output pulse resolution:	Pulses / gallon (Pulses / litre) - nominal			
Reed switch:	318 (84)	102 (27)	53 (14)	25 (6.5)
Hall effect:	636 (168)	405 (107)	212 (56)	99 (26)
QP-Quadrature Hall option:	636 (168)	204 (54)	106 (28)	49 (13)
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:	100 mesh (150 microns)			

* Maximum flow is to be reduced as viscosity increases, see flow de-rating guide. Max. recommanded pressure drop is 100Kpa. (15 psi)

** Accuracy ± 1% of reading with M - Series mechanical registers and accuracy ± 0.5% of reading with V-series mechanical register.