

## 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
- RT12 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
- EB LCD 6-digit 2 stage batcher and cumulative totaliser (Available for remote mounting and with I.S. approvals - RT12 and BT11 only)

**ACCURACY:  $\pm 0.5\%$  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   | 2.6 - 66     | 8 - 120    |
| - (LPM):                         | 1 - 40                                                                                                       | 10 - 150   | 15 - 250     | 30 - 450   |
| **Accuracy @ 3cp:                | $\pm 0.5\%$ of reading (accuracy is $\pm 0.2\%$ of reading with optional RT12 with non-linearity correction) |            |              |            |
| Repeatability:                   | Typically $\pm 0.03\%$ of reading                                                                            |            |              |            |
| Temperature range:               | -4°F - +250°F (-20°C - +120°C), refer factory for lower temperature                                          |            |              |            |
| Maximum pressure:                | <b>PSI (bar) Threaded Meters</b>                                                                             |            |              |            |
| 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)   |
| *** High pressure models:        | 5800 (400)                                                                                                   | 5800 (400) | 5800 (400)   | 4350 (300) |
| <b>Max. pressure Mech. Meter</b> | <b>PSI (Threaded meters) bar</b>                                                                             |            |              |            |
| 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. recommended pressure drop is 100Kpa. (15 psi)

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

\*\*\* QP and PF Options are not available with High Pressure Meters.