Liquid Controls M Series rotary motion positive displacement (PD) meters offer the ultimate in measurement accuracy for custody transfer of petroleum products and aviation fuels.

**Superior performance features**

**Low pressure drop** - will operate on gravity flow or pump pressure.

**Sustained accuracy** - no metal-to-metal contact inside the measuring chamber means minimal wear and deterioration in accuracy over time, fewer recalibrations, and longer service life. Meters conform to NIST and International Weights and Measures accuracy requirements.

**Wide viscosity range** - LC meters can accurately meter products from less than 30 SSU (less than 1 centipoise) to 1,500,000 SSU (325,000 centipoise).

**Maximum adaptability** - choice of stock or custom elbows/fittings provides unequaled mounting flexibility to meet widely varying installation requirements.

**Accuracy/Performance***

**Repeatability**
Capable of 0.02% or better at any flow rate over entire range

**Linearity**
Over 5:1 range
Mech. registration: capable of ±0.125% or better from max. nom. flow rate
Elect. registration: capable of ±0.10% or better from max. nom. flow rate

Over 10:1 range
Mech. registration: capable of ±0.22% or better from max. nom. flow rate
Elect. registration: capable of ±0.10% or better from max. nom. flow rate

Over 40:1 range
Mech. registration: capable of ±0.5% or better from max. nom. flow rate
Elect. registration: capable of ±0.15% or better from max. nom. flow rate

**Temperature range**
-40° F to 160° F (-40° C to 71° C)

*Stated accuracy obtainable when all variables remain constant. Reading/measurements reflect a minimum of one minute of flow at selected rate(s). All accuracy statements based on metering safety solvent (aliphatic hydrocarbon), approximate viscosity 1 CPS. On higher viscosity products, the average deviation in accuracy will be less.

**Industries served**
LC M and MA series meters are well suited for use in industries requiring precise flow measurement and reliable, extended service life:
- Refined petroleum products
- Aviation fuels
- LPG
- Agricultural chemicals
- Paints and coatings
- Foods and beverages
- Petrochemicals
- Pharmaceuticals
- Cosmetics
- Printing Inks
- Textiles

**Construction**

**Meter housing and rotors**
Cast aluminum

**Internal components**
Aluminum, Ni-Resist, stainless steel

**Seal materials**
UL recognized component: Buna-N, Viton®, PTFE

**Bearings**
Carbon, PTFE, Ni-Resist

1Viton is a registered trademark of DuPont Corporation.
**Ordering Information**

**Class**  
1. Refined petroleum products  
2. Aviation and jet fuel  

**Material**  
Ni-Resist

<table>
<thead>
<tr>
<th>Model</th>
<th>Flange size</th>
<th>Max. nom. Flow rate</th>
<th>Working pressure</th>
<th>Dimensions</th>
</tr>
</thead>
</table>

**Material of Construction**

**Class 1 Meters**

For metering refined petroleum products such as leaded and unleaded gasoline, fuel oils, diesel fuel, kerosene, and ethylene glycol (antifreeze) at rated capacity. Also used on motor oils, however, rate of flow based on viscosity to pressure loss relationship. Buna-N / Viton seals standard. PTFE seals optional.

**Class 2 Meters**

For metering aviation gasoline and jet fuels when meter is installed downstream of the filter/separator. Non-ferrous construction meters may be operated at rated capacity. Buna-N / Viton seals standard. PTFE seals optional.

**Bearings**

1. Carbon bearings are standard on some meter sizes of this class. Consult factory.