



# Specifications

## M-60™ Meters

Liquid Controls M and MA Series rotary motion positive displacement (PD) meters offer the ultimate in measurement accuracy for custody transfer of petroleum products, aviation fuels, LPG, and a broad range of industrial liquids.

### 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  $\pm 0.125\%$  or better from max. nom. flow rate

Elect. registration: capable of  $\pm 0.10\%$  or better from max. nom. flow rate

##### Over 10:1 range

Mech. registration: capable of  $\pm 0.22\%$  or better from max. nom. flow rate

Elect. registration: capable of  $\pm 0.10\%$  or better from max. nom. flow rate

##### Over 40:1 range

Mech. registration: capable of  $\pm 0.5\%$  or better from max. nom. flow rate

Elect. registration: capable of  $\pm 0.15\%$  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.

**LIQUID  
CONTROLS**  
A Unit of IDEX Corporation



### 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®<sup>1</sup>, Teflon®<sup>1</sup>

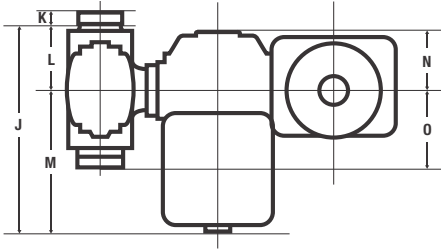
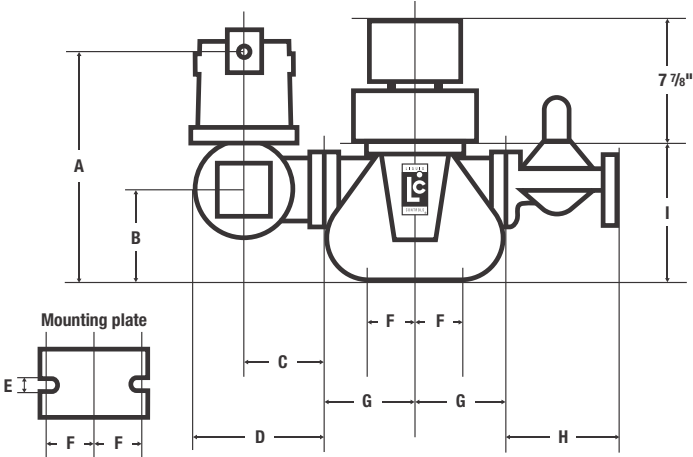
#### Bearings

Carbon, Teflon, Ni-Resist

<sup>1</sup>Viton and Teflon are registered trademarks of DuPont Corporation.

Front View

Top View



Dimensions: flow meters with electronic registration

Note: Dimensions shown are not for construction use.  
Consult factory when certified engineering prints are required.

Model	Flange size	Max. nom. Flow rate	Working pressure	Dimensions																	Net Wt
					A	B	C	D	E	F	G	H	I	J	K	L	M	N	O		
M-60	4" or 6"	600 GPM (2270 L/min)	275 PSI (19 BAR)	in	25.4	16.6 <sup>d</sup>	5.6	9.1	1/2"-13thd	1.5	13.3 <sup>d</sup>	n/a	19.6	21.3	1.4	7.1	14.2	8.4	9.5	201 lbs	
				mm	645	421 <sup>d</sup>	143	230	1/2"-13thd	38	337 <sup>d</sup>	n/a	498	540	36	181	359	213	241	(91.2 kg)	

Ordering Information

Model : \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Description : \_\_\_\_\_

Flow rates: Max. \_\_\_\_\_ Normal \_\_\_\_\_ Min. \_\_\_\_\_

Operating temperatures: Max. \_\_\_\_\_ Normal \_\_\_\_\_ Min. \_\_\_\_\_

Maximum non-shock operating pressure: \_\_\_\_\_

Maximum viscosity: \_\_\_\_\_ @ \_\_\_\_\_ (Temp°/F or C)

Specific gravity: \_\_\_\_\_ @ \_\_\_\_\_ (Temp°/F or C)

Construction class: (1, 2, etc.) \_\_\_\_\_

Seal material: ☐ Standard Buna/Viton ☐ All Viton ☐ All Teflon

Direction of flow: ☐ L to R ☐ R to L

Read out: ☐ Gallons ☐ Liters ☐ Pounds ☐ Other \_\_\_\_\_

Mechanical counter and printer: ☐ Zero/Face up ☐ Zero/Face down ☐ Accumulative

Strainer basket : ☐ 40M ☐ 80M ☐ 100M ☐ Other \_\_\_\_\_

Flange size: \_\_\_\_\_

Flange type: ☐ NPT ☐ BSPT ☐ Slip weld ☐ ANSI ☐ DIN ☐ Other \_\_\_\_\_

Options: \_\_\_\_\_

Class	Description	Bearing Material
1	Refined petroleum products	Ni-Resist <sup>1</sup>
2	Aviation and jet fuel	Ni-Resist <sup>1</sup>
3	Variety of products includes: liquid sugars, sweeteners, syrups, vegetable oils	Ni-Resist <sup>1</sup>
14	Crude oil	Ni-Resist
15	Oil - or water-bases latex products, polyester resins, adhesives, herbicides, nitrogen fertilizers	Teflon

<sup>1</sup> Carbon bearings are standard on some meter sizes of this class. Consult factory.