

# Specifications M-15 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.

#### 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

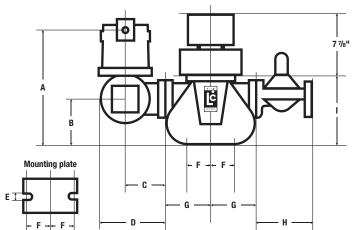
UL recognized component: Buna-N, Viton®<sup>1</sup>, Teflon®<sup>1</sup>

#### **Bearings**

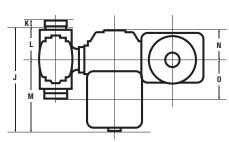
Carbon, Teflon, Ni-Resist

<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.	Working	Dimensions										Net						
Model		Flow rate	pressure		Α	В	С	D	Е	F	G	Н	I	J	K	L	М	Z	0	Wt
M-15	3" or	200 GPM	150 PSI	in	17	7.5	5	7.7	0.69	3.8	5.5	12	10.8	16.1	1.3	5	11.1	5.1	6.5	37 lbs
	3" in, 2" out	(760 L/min)	(10.5 BAR)	mm	432	191	127	195	17	95	140	291	273	410	32	127	238	129	165	(16.8 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:								
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:								

		Bearing
<u>Class</u>	<u>Description</u>	<u>Material</u>
1	Refined petroleum products	Ni-Resist1
2	Aviation and jet fuel	Ni-Resist1
3	Variety of products includes:	Ni-Resist1
	liquid sugars, sweeteners, syrups, vegetable oils	
4	Treated waters and solvents where no red metals are allowed	Carbon
14	Crude oil	Ni-Resist
15	Oil - or water-bases latex products, polyester resins, adhesives, herbicides, nitrogen fertilizers	Teflon
16	General solvents	Carbon

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



# **LIQUID CONTROLS**

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