

SpecificationsM-5 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 or stainless steel

Internal components

Aluminum, Ni-Resist, stainless steel

Seal materials

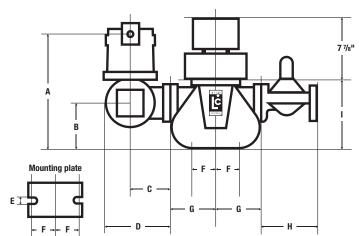
UL recognized component: Buna-N, Viton®¹, Teflon®¹

Bearings

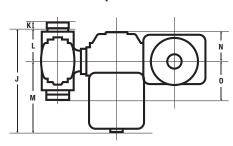
Carbon, Teflon, Ni-Resist

¹Viton 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	I Flange size Max. nom. Working Dimensions						Net													
Woder	Flalige Size	Flow rate	pressure		Α	В	C	D	Е	F	G	Н	-	L	K	L	М	N	0	Wt
M-5	1 1/2" or 2"	60 GPM	150 PSI	in	14.2	5.3	4.1	6.8	0.56	1.9	4.9	8.3	8.6	13.9	0.9	4.7	9.2	3.2	4.6	14 lbs
		(227 L/min)	(10.5 BAR)	mm	360	135	105	172	14	48	125	213	219	352	24	119	233	81	116	(6.4 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:								
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:								

<u>Class</u>	<u>Description</u>	Bearing <u>Material</u>
1	Refined petroleum products	Ni-Resist1
2	Aviation and jet fuel	Ni-Resist1
3	Variety of products includes:	Ni-Resist ¹
	liquid sugars, sweeteners, syrups, vegetable oils	
4	Treated waters and solvents where no red metals are allowed	Carbon
8	Acid pH liquids includes:	Carbon ²
	nitric, phosphoric, glacial acetic acids,	
	citric juces, vinegar	
14	Crude oil	Ni-Resist
16	General solvents	Carbon
30	Herbicides	Carbon

- ¹ Carbon bearings are standard on some meter sizes of this
- class. Consult factory. ² Teflon bearings optional on some meter sizes. Consult factory.



LIQUID CONTROLS

A Unit of IDEX Corporation 105 Albrecht Drive Lake Bluff, IL 60044-2242 1.800.458.5262 • 847.295.1050

Fax: 847.295.1057 www.lcmeter.com

