

Specifications M-80 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

Mechanical registration: capable of 0.05% of reading over entire range Electronic registration: capable of 0.03% of reading 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 ±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 (other metalurgies available including brass, cast-iron and 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.

7 7/8" Mounting plate

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							
Woder	Flallye Size	Flow rate	pressure		Α	В	С	D	E	F	G	Н	ı	J	K	L	М	Ν	0	Wt
M-80	4" or 6"	800 GPM	275 PSI	in	25	16.6 ^d	5.6	9.1	1/2"-13thd	1.5	14.3 ^d	n/a	20	21	1.4	7	14	8	10	201 lbs
		(3228 L/min)	(19 BAR)	mm	645	421 ^d	143	230	1/2"-13thd	38	362 ^d	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: @ (Tem										
Construction class: (1, 2, etc.)										
Seal material: ☐ Standard Buna/Viton ☐ All Viton ☐ All Teflon										
Direction of flow:										
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:										

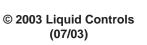
Bearing Material Class Description Aviation and jet fuel Ni-Resist¹

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

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CERTIFICATED FIRM
Certificate No. 08732