

Specifications M-80™ Meters



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 \pm 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

- 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

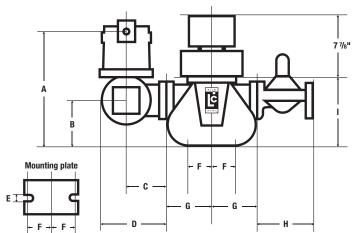
UL recognized component: Buna-N, Viton®1, Teflon®1

Bearings

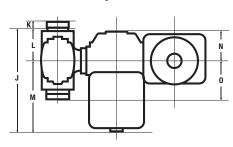
Carbon, Teflon, Ni-Resist

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	Flange size	Max. nom.	Working	Dimensions												Net				
Wiodei	i lange size	Flow rate	pressure		Α	В	С	D	E	F	G	Н	- 1	J	K	ш	M	Ν	0	Wt
M-80	4" or 6"	800 GPM	275 PSI	in	25	16.6 ^d	5.6	9.1	'2"-13tl	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	'2"-13tl	38	362 ^d	n/a	498	540	36	181	359	213	241	(91.2 kg)
	6" ²	1000 GPM ²	275 PSI			-														
		(3785 L/min)	(19 BAR)	1																

Ordering Information									
Model :									
Description :									
Flow rates: Max Norm	nal Min								
Operating temperatures: Max	Normal	Min							
Maximum non-shock operating pressure:									
Maximum viscosity:	@	(Temp°/F or C)							
Specific gravity: @ (Temp°/F or									
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 Material 2 Aviation and jet fuel Ni-Resist¹

- ¹ Carbon bearings are standard on some meter sizes of this class. Consult factory.
- ² M-80 Meters are capable of momentary overload operation at 125% of maximum rated capacity in either direction without damage to mechanism (applies to Class 2 meters on jet fuel only). 125% overload operation (1,000 GPM) requires 6" ANSI or 6" Victaulic® connections.

Victaulic® is a registered trademark of Victaulic Company.

Material of Construction

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. Teflon seals optional.



LIQUID CONTROLS

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