Specifications
M-25 Meters

LIQUID CONTROLS
A Unit of IDEX Corporation
IDEX CORPORATION

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.

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

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 ± 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.

Construction

Meter housing and rotors
Cast aluminum

Internal components
Aluminum, Ni-Resist, stainless steel

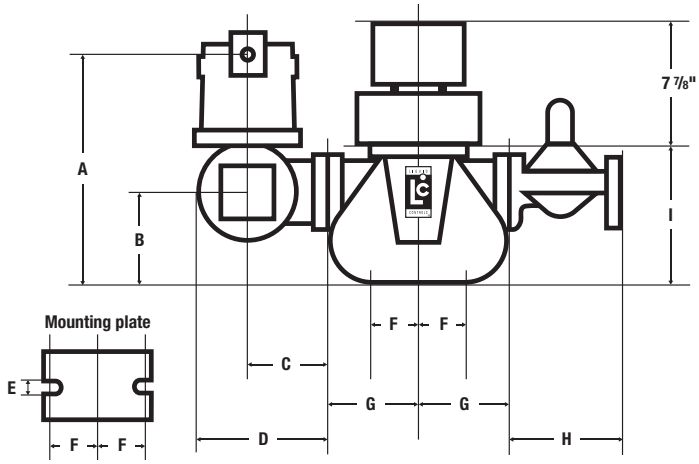
Seal materials
UL recognized component: Buna-N, Viton®[1], PTFE

Bearings
Carbon, PTFE, Ni-Resist

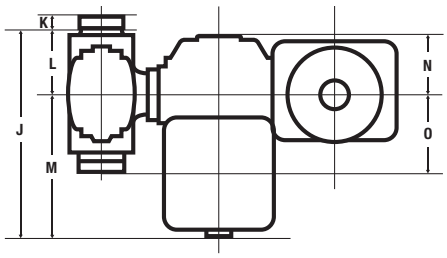
[1]Viton is a registered trademark of DuPont Corporation.

INDORAYA POWER ENERGI

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-25	3"	300 GPM	150 PSI	in	17	7.5	5	7.7	0.69	3.8	5.5	n/a	10.8	16.1	1.3	5	11.1	5.1	6.5	37 lbs
		(1100 L/min)	(10.5 BAR)	mm	432	191	127	195	17	95	140	n/a	273	410	32	127	283	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 PTFE

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[1]
2	Aviation and jet fuel	Ni-Resist[1]

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

Material of Construction

Class 1 Meters

For metering refined petroleum products such as leaded and unleaded gasoline, fuel oils, diesel fuel, kerosene, and ethylene glycol (antifreeze) at rated capacity. Also used on motor oils, however, rate of flow based on viscosity to pressure loss relationship. Buna-N / Viton seals standard. PTFE seals optional.

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. PTFE seals optional.

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