

# LIQUIDS

## Specifications

- **Linearity:** +/- .5%
- **Premium Linearity:** +/- .25% (over a specified range)
- **Repeatability:** +/- .05%
- **Premium Repeatability:** +/- .02% (over a specified range)
- **Temperature:** -450°F to +450°F std., +1000°F available
- **Materials:** Precision Turbine Flowmeters are constructed of 300 and 400 series stainless steel. A variety of other materials are available to satisfy most applications including CPVC for corrosive applications (See Bulletin 5003)
- **Electrical Output:** A minimum of 30 mV peak to peak at the minimum repeatable flow.
- **Pressure Drop:** 4 psi at nominal rated flow range.
- **End Fittings:** Include AN series 37°, flare tube (MS-33656), NPT, and ANSI flanges. Other End Fittings available upon request.
- **Operating Pressure:** Accommodates unlimited pressures depending on end fittings.
- **Calibration:** Precision Turbine Flowmeters furnished with standard fluid calibration. Special calibrations available.
- **Flow Ranges:** From .25 to 12,000 GPM
- Specifications based on ball bearings. Altering bearing selection may alter specification performance, consult factory.

## Typical Applications for Liquids

Cryogenic  
 Allyl Chloride  
 Adipic Acid  
 Chloride Leftovers  
 Gasoline  
 LPG  
 Brine  
 Anhydrous Ammonia  
 Mercaptans  
 Ethylene Diamino (EDA)  
 Ethylene Dichloride  
 Asphalt  
 Water, Fresh  
 Water, DI  
 Water, Salt  
 Perclyarphylene  
 Carbon Tetrachloride  
 Fuel Oils  
 Freon

## Liquid Sizing Chart

NOMINAL METER SIZE	NOMINAL FLOW RANGE				METER FACTOR "K" PULSES/U.S. GAL.	* APPROX. METER WT.
	MINIMUM REPEATABLE	MINIMUM LINEAR	NOMINAL MAXIMUM	EXTENDED MAXIMUM		
	U.S. Gallons Per Minute					
						LBS / Kg
1/4	0.25	0.5	2.5	3	15000	2 / 1
3/8	0.35	0.75	5	7.5	3160	2 / 1
1/2	0.6	1.25	9.5	12	3160	2 / 1
5/8	0.9	1.75	16	18	1875	2 / 1
3/4	1.75	2.5	29	35	1035	4 / 2
1	3	4	60	75	500	5 / 2.5
1 1/4	4	6	93	115	322	7 / 3
1 1/2	6	8	130	175	230	8 / 3.5
2	12	15	225	275	133	13 / 6
2 1/2	15	25	400	500	75	18 / 8
3	30	40	650	800	46.1	19 / 8.5
4	50	75	1250	1500	20.7	36 / 6
5	100	140	2000	2500	9.0	47 / 21
6	125	200	2900	3600	5.6	58 / 26
8	280	330	5200	6400	2.4	119 / 54
10	550	650	8000	9800	5.95	226 / 103
12	800	900	12000	15000	5.95	345 / 157

\* Weight is for flanged flowmeters

SP-MTR-101L