

# TM Liquid In-Line Turbine Flow Meter

## Highly Accurate and Reliable Liquid Flow Metering

**T**urbines, Inc. is a leader in the design and manufacture of reliable and accurate turbine flow metering equipment, electronic monitors, and accessories. All of our products are engineered, manufactured, and calibrated using premium quality materials by a skilled engineering team, using state-of-the-art equipment.

The **TM Series Liquid Turbine** flow meter is a highly-versatile product line that offers all stainless steel, precision-machined components with CD4MCu and/or 416 steel rotors. Available for flow ranges from 3/8" to 10", Turbines Inc.'s TM Series meters can handle line sizes as small as 1/2" and up to 10".



The TM Series is designed specifically for liquid applications and can be configured with a variety of end arrangements, including threaded, flanged, grooved, or any other means as specified.

The TM Series provides +/- 1.0% standard accuracy, and is repeatable to +/- 0.10% over the entire flow range. For every turbine flow meter manufactured by Turbines, Inc., a unique K-factor is established by means of a NIST-traceable factory calibration.

### Specifications

Performance Data	
Accuracy	+/- 1.0% over flow range (except TM0038 which is +/- 2.0%)
Repeatability	+/- 0.1% over flow range
Operating Temperature	-100° F to +300° F
Connection	Flanged, Victaulic® (grooved), or threaded
Materials	
Meter Body	316 stainless steel
Rotor Supports	316 stainless steel
Meter Rotor	CD4MCu/416 stainless steel
Rotor Shaft	Tungsten carbide
Sleeve Bearings	Tungsten carbide
<b>Certifications</b>	ISO 9001
<b>Additional Information</b>	Full line of economical Retrofit Kits are available Factory refurbishment with one (1) day turnaround is available

### Performance Specifications

Turbines Part Number	End Connection Size (in)	Flow Range (GPM)	Flow Range (BPD)	Flow Range (M3PD)	Flow Range (LPM)	Max Pressure (PSI)	Repair Kits (Kits come with: 2-Rotor Supports, 1-Rotor, & 2-Retaining Rings)
TM0038	1" X 1" Male NPT	0.3 - 3	10 - 100	1.6 - 16	1.14 - 11.36	5,000	TK0038
TM0038X 1/2	½" X ½" Male NPT						
TM0050	1" X 1" Male NPT	0.75 - 7.5	25 - 250	4 - 40	2.84 - 28.39	5,000	TK0050
TM0050X 1/2	½" X ½" Male NPT						
TM0075	1" X 1" Male NPT	2 - 15	68 - 514	11 - 80	7.57 - 56.78	5,000	TK0075
TM0075X 1/2	½" X ½" Male NPT						
TM0078	1" X 1" Male NPT	3 - 30	102 - 1,028	16 - 160	11.36 - 113.6	5,000	TK0078
TM0078-VIC	1" X 1" Victaulic					800	
TM0100	1" X 1" Male NPT	5 - 50	170 - 1,714	27 - 270	18.93 - 189.3	5,000	TK0100
TM0100-VIC	1" X 1" Victaulic					800	
TM0150	1½" X 1½" Male NPT	15 - 180	514 - 6,000	80 - 980	56.8 - 681.35	5,000	TK0150
TM0150-VIC	1½" X 1½" Victaulic					800	
TM0200L	2" X 2" Low Flow Male NPT	15 - 180	514 - 6,000	80 - 980	56.8 - 681.35	5,000	TK0150
TM200L-VIC	2" X 2" Low Flow Victaulic					800	
TM0200	2" X 2" Female NPT	40 - 400	1,371 - 13,714	218 - 2,180	151 - 1,514	5,000	TK0200
TM0200-VIC	2 ½" X 2 ½" Victaulic					800	
TM0300	3" Victaulic	60 - 600	2,100 - 21,000	320 - 3,200	227 - 2,270	800	TK0300
TM0400	4" Victaulic	120 - 1,200	4,100 - 41,000	654 - 6,541	454 - 4,542	800	TK0400
TM0600	6" Victaulic	250 - 2,500	8,571 - 85,710	1,362 - 13,627	946 - 9,463	800	TK0600
TM0800	8" Victaulic	350 - 3,500	12,000 - 120,000	1,907 - 19,080	1,324 - 13,248	800	TK0800
TM1000	10" Victaulic	550 - 5,500	19,000 - 190,000	2,998 - 29,980	2,081 - 20,819	800	TK1000

Magnetic pick up is standard on all models (no extra charge).

### Support and Service

Our full-time, dedicated service group offers 100% trustworthy support and recertification for flow meters — whether our own or a competitor's brand. Our meter proving services are performed by our trained technicians and the latest testing equipment.

Custom meters and instrumentation options for your application are readily available. Our products are always in stock and ready for immediate shipment, typically within 24 hours.



P.O. Box 933 | 15935 U.S. Highway 283 | Altus, OK 73522 USA  
Tel: +1-800-809-1387 | Fax: +1-580-477-3071

[www.turbinesincorporated.com](http://www.turbinesincorporated.com)

*Turbines, Inc. products and operations are certified to industry standards for safety and performance. Visit our web site for details.*

### Certifications

Turbines, Inc.'s quality management systems are ISO 9001 and AS 9100 compliant and Canadian CRN certified.

### Worldwide Support

Turbines, Inc. is a subsidiary of Primary Flow Signal, Inc. We serve customers worldwide with U.S. offices in Cranston, RI (headquarters); Houston and Odessa-Midland, TX; Tulsa and Altus, OK; Seneca, SC; as well as locations in Edmonton, Alberta (Canada) and Beijing, China.

**Contact your Turbinas, Inc. Field Application Engineer for assistance.**



**All Turbinas, Inc. products are proudly made in the U.S.A.**