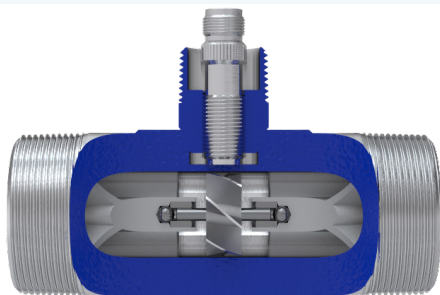


# TM Liquid In-Line Turbine Flow Meter

**ACCURATE AND RELIABLE LIQUID FLOW MEASUREMENT**



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

Turbines, Inc. maintains a team of dedicated engineers, technicians, and application specialists, who are on-call to assist with product/application guidance, technical assistance, and special configurations or modifications.

| Specifications                                                                 |                                                              |
|--------------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>Performance</b>                                                             |                                                              |
| Linearity                                                                      | +/- 1% over flow range*                                      |
| Repeatability                                                                  | +/- 0.1% over flow range                                     |
| Operating Temperature                                                          | -100°F to +250°F Standard (850°F with special coil)          |
| <b>Materials</b>                                                               |                                                              |
| 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>Additional Information</b>                                                  |                                                              |
| Full line of Retrofit Kits are available<br>Factory refurbishment is available |                                                              |
| Connections                                                                    | NPT, grooved, or flanged (consult factory for other options) |
| <b>Certifications</b>                                                          |                                                              |
| CRN Certified, ISO 9001, NIST traceable calibration                            |                                                              |

| Turbines Part Number | End Connection Size (in)  | Flow Range (GPM) | Flow Range (BPD) | Flow Range (M3PD) | Flow Range (LPM) | Max Pressure (PSI) | Repair Kits<br>(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" Grooved           |                  |                  |                   |                  | 1,000              |                                                                                 |
| TM0100               | 1" X 1" Male NPT          | 5-50             | 170 -1,714       | 27 - 270          | 18.93 - 189.93   | 5,000              | TK0100                                                                          |
| TM0100-VIC           | 1" X 1" Grooved           |                  |                  |                   |                  | 1,000              |                                                                                 |
| 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" Grooved         |                  |                  |                   |                  | 1,000              |                                                                                 |
| TM0200L              | 2" X 2" Low Flow Male NPT | 15 -180          | 514 - 6,000      | 80 -980           | 56.8- 681.35     | 5,000              | TK0150                                                                          |
| TM0200L-VIC          | 2" X 2" Low Flow Grooved  |                  |                  |                   |                  | 1,000              |                                                                                 |
| 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" Grooved       |                  |                  |                   |                  | 1,000              |                                                                                 |
| TM0300               | 3" Grooved                | 60 -600          | 2,100- 21,000    | 320 - 3,200       | 227 - 2,270      | 1,000              | TK0300                                                                          |
| TM0400               | 4" Grooved                | 120-1,200        | 4,100- 41,000    | 654 - 6,541       | 454 - 4,542      | 800                | TK0400                                                                          |
| TM0600               | 6" Grooved                | 250 -2,500       | 8571- 85,710     | 1,362 - 13,627    | 946 - 9,463      | 800                | TK0600                                                                          |
| TM0800               | 8" Grooved                | 350 -3,500       | 12,000-120,000   | 1,907- 19,080     | 1,324 - 13,248   | 800                | TK0800                                                                          |
| TM1000               | 10" Grooved               | 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). \*Except TM0038 which is +/- 2.0%

## Service

Our dedicated staff offers complete support and recertification for flow meters — whether our own or a competitor's brand. Our calibration services are performed by our trained technicians using the latest testing equipment.

Turbines, Inc. maintains extensive inventories in multiple locations to facilitate rapid, industry leading deliveries.

## Worldwide Support

We serve customers globally with offices in Altus, OK; Seneca, SC; Odessa, TX; Cranston, RI; and Edmonton, Alberta, Canada.



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



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