

TH Series High Accuracy Turbine Flow Meter

Overview

The TH Turbine Flow Meter is a compact, high-accuracy meter that is repeatable up to 0.1%. This series offers a wide range of meter sizes with internal diameters from 1/2" up to 12", accommodating flow rates as low as 1 gallon per minute and up to 12,000 gallons per minute.

The TH Turbine is commonly used in applications and industries requiring highly accurate flow readings and components that are compatible with a variety of specialty chemicals and fluids. Examples include:

- Fuel measurement / Consumption
- Blending
- Jet fuel
- Engine testing
- Test stands
- Prototype testing
- Chemicals / Dosing
- Process control



Technical Specifications

| General Meter Data | |
|-----------------------------|---|
| 13 Flow Ranges | 1.0 to 12,000 GPM (across all meter sizes) |
| Accuracy | ±0.5% over standard flow range (for ±0.25% consult factory) |
| Repeatability | ±0.1% over standard range |
| Operating Temperature Range | -450°F to 450°F (up to 850°F with special coil - consult factory) |
| Max. Operating Pressure | up to 20,000 psi (end connection dependent) |
| End Connections | 37° AN Flare, NPT, or flanged (consult factory for other options) |

Meter Materials of Construction

| | |
|---------------|---|
| Body | 316 stainless steel |
| Rotor | 17-4 PH stainless steel, Nickel 200, Duplex stainless steel (consult factory for other options) |
| Ball Bearings | 440C Stainless Steel and Hybrid Ceramic ball bearings, hard carbon composite (consult factory for additional materials available) |

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Meter Data – Sizes

| Flow Meter Internal Diameter | Flow Range | |
|---------------------------------|------------|--------------|
| | (GPM) | (LPM) |
| 1/2" | 1-10 | 3.79-37.85 |
| 5/8" | 1.75-16 | 6.62-60.57 |
| 3/4" | 2.5-30 | 9.46-113.56 |
| 1" | 4-60 | 15.14-227.12 |
| 1-1/4" | 6-93 | 22.71-352.04 |
| 1-1/2" | 8-130 | 30.28-492.10 |
| 2" | 15-225 | 56.8-851.7 |
| 3" | 40-650 | 151.4-2,461 |
| 4" | 75-1250 | 284-4,732 |
| 6" | 200-2900 | 757.1-10,978 |
| 8" | 330-5200 | 1,249-19,684 |
| 10" | 650-8000 | 2,461-30,283 |
| 12" | 900-12,000 | 3,407-45,425 |

Details

- Magnetic pickup coils are included at no additional charge.
- The TH Series is linear and accurate over its designed operating range; "premium accuracy" is available - consult factory.

Compatible Electronics

| | |
|---------------------|---|
| Standard (included) | Pulse output |
| EDGE Sensor | Pulse, analog, or Modbus outputs |
| Digital Display | EX rated, flow rate & total, analog and pulse outputs |



End-of-Life Disposal:

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste**. We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations**. Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001**.

Products may be subject to change without notice. Contact factory for the most up-to-date product information.