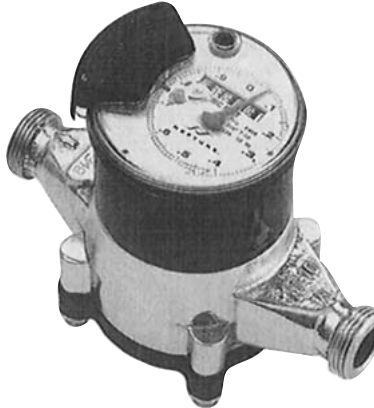


 **METERS**

**T-10 Meter**  
**Sizes: 5/8", 3/4", and 1"**

*T-10 water meters are warranted for performance, materials, and workmanship.*



Every T-10 water meter meets or exceeds the latest AWWA C700 Standard. Its nutating disc, positive displacement principle is time proven for accuracy and dependability since 1892, ensuring maximum utility revenue.

**Construction**

The T-10 water meter consists of three major assemblies: a register, an EnviroBrass® II maincase, and a nutating disc measuring chamber.

The T-10 meter is available with a variety of register types. For reading convenience, the register can be mounted in one of four positions on the meter.

The corrosion-resistant EnviroBrass II maincase will withstand most service conditions: internal water pressure, rough handling, and in-line piping stress.

The innovative floating chamber design of the nutating disc measuring

element protects the chamber from frost damage while the unique chamber seal extends the low flow accuracy by sealing the chamber outlet port to the maincase outlet port. The nutating disc measuring element utilizes corrosion-resistant materials throughout and a thrust roller to minimize wear.

**Warranty**

Neptune provides a limited warranty with respect to its T-10 water meters for performance, materials and workmanship.

When desired, maintenance is easily accomplished either by replacement of major assemblies or individual components.

**Systems Compatibility**

Adaptability to all present and future systems for flexibility.

**KEY FEATURES**

■ **Register**

- Magnetic drive, low torque registration ensures accuracy
- Impact-resistant register
- High resolution, low flow leak detection
- Bayonet style register mount allows in-line serviceability
- Tamperproof seal pin deters theft
- Date of manufacture, size, and model stamped on dial face

■ **EnviroBrass II Maincase**

- Made from EnviroBrass II
- ANSI/NSF 61 Certified
- Lifetime guarantee
- Resists internal pressure stresses and external damage
- Handles in-line piping variations and stresses
- EnviroBrass II provides residual value vs. plastic
- Electrical grounding continuity

■ **Nutating Disc Measuring Chamber**

- Positive displacement
- Widest effective flow range for maximum revenue
- Proprietary polymer materials maximize long term accuracy
- Floating chamber design is unaffected by meter position or in-line piping stresses

**THESE METERS ARE ALSO USED IN SUB-METERING APPLICATIONS**

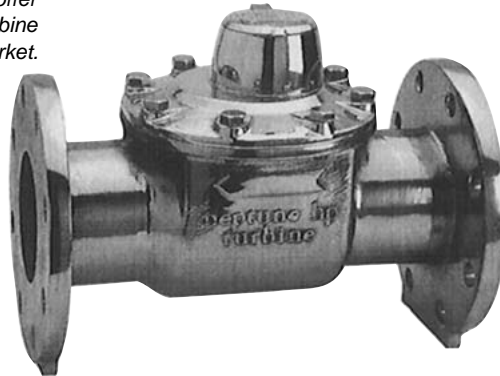


## METERS

### High Performance Turbine Meter

Sizes: 1-1/2", 2", 3", 4", 6", 8", and 10"

*High Performance Turbine water meters offer some of the widest flow ranges of any turbine meters on the market.*



HP Turbine water meters offer some of the widest flow ranges of any turbine meters on the market. All HP Turbine water meters meet or exceed the latest performance and accuracy requirements of AWWA C701 and maximum continuous flow rates may be exceeded by as much as 25% for intermittent periods.

#### Application

The HP Turbine water meter is designed for applications where flow rates are consistently moderate to high.

#### Construction

Each HP Turbine consists of a rugged bronze maincase, an AWWA Class II turbine measuring element, and a roll-sealed register.

The bronze maincase is corrosion resistant, lightweight, and compact. Inlet and outlet connections are flanged. Strainers are available to prevent debris from entering the meter and to reduce the effects of uneven water flow due to upstream piping variations.

The Unitized Measuring Element (UME) allows for quick, easy, in-line interchangeability. Water volume is

measured accurately at all flows by a specially designed assembly. The hydrodynamically balanced thrust compensated rotor relieves pressure on the thrust bearings to minimize wear and provide sustained accuracy over an extended operating life. Direct coupling of the rotor to the gear train eliminates revenue loss due to slippage during fast starts and line surges. A calibration vane allows in-field calibration of the UME to lengthen service life and to ensure accurate registration.

The roll-sealed register eliminates leaking and fogging. A magnetic drive couples the register with the measuring element.

#### Warranty

Neptune provides a limited warranty with respect to its HP Turbine water meters for performance, materials and workmanship.

When desired, maintenance is easily accomplished by in-line replacement of major components.

#### Systems Compatibility

Adaptability to all present and future systems for flexibility.

### KEY FEATURES

#### ■ Roll-Sealed Register

- Magnetic drive, low torque registration ensures accuracy
- Impact-resistant register design with flat glass for readability
- 1:1 ratio, low flow indicator identifies leaks
- Bayonet mount allows in-line serviceability
- Tamperproof seal pin deters theft
- Date of manufacture, size, and model stamped on dial face

#### ■ Cast Bronze Maincase

- Made from EnviroBrass® II
- Compact design is lightweight and easy to handle
- Sturdy, durable, corrosion resistant
- Resists internal pressure stresses and external damage
- Residual value

#### ■ Turbine Measuring Element

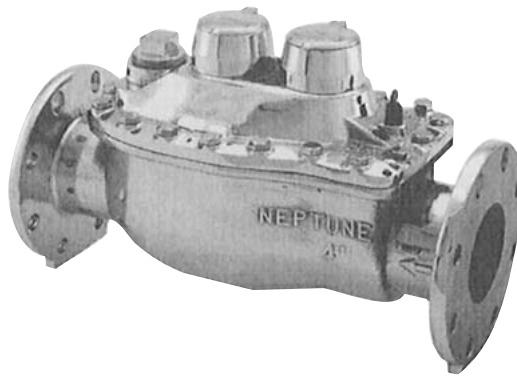
- Excellent low flow sensitivity and wide flow ranges available at 98.5%–101.5% accuracy
- Direct coupling of rotor to gear train prevents slippage and ensures accurate registration
- Interchangeable measuring element allows for in-line service
- Hydrodynamically balanced rotor
- Reusable O-ring gasket on 3"–10" sizes

  
**NEPTUNE** METERS  
Neptune Technology Group Inc

## Tru/Flo™ Compound Meter

Sizes: 2"HP, 3", 4", 6", and 6" x 8"

*Tru/Flo meters combine the low-flow sensitivity of a disc-type meter with the high-flow capacity of a turbine-type meter.*



All Tru/Flo Compound water meters meet or exceed the latest performance and accuracy requirements set by the AWWA C702, and maximum continuous flow rates may be exceeded by as much as 25% for intermittent periods.

### Application

The Tru/Flo Compound water meter is designed to register wide-flow ranges where varying flow rates are typical. Tru/Flo meters combine the low-flow sensitivity of a disc-type meter with the high-flow capacity of a turbine-type meter.

### Operation

The hydraulic valve transfers flow smoothly between the disc section and turbine section of the meter, minimizing the loss of accuracy in the crossover range. The turbine measuring element registers high flows and the disc measuring element registers low flows, ensuring accurate measurement at all flow rates.

### Construction

The Tru/Flo consists of a durable bronze maincase, Neptune Turbine

measuring element, Neptune T-10 chamber, a patented hydraulic valve, and two magnetic-driven, roll-sealed registers.

The 6" x 8" Tru/Flo assembly consists of two 8" x 6" concentric reducers, a 6" Neptune strainer, and a 6" Neptune Tru/Flo Compound meter.

The bronze maincase is corrosion resistant, lightweight, and easy to handle.

A calibration vane allows field calibration of the UME to lengthen service life and to ensure accurate registration.

The two magnetic-driven, roll-sealed registers simplify the meter's design and reduce long-term maintenance by eliminating complicated combining drive mechanisms. For reading convenience, the registers can be mounted in any one of four positions on the meter.

### Systems Compatibility

Adaptability to all present and future systems for flexibility.

## KEY FEATURES

- Patented hydraulic valve design\*
- Minimum loss of accuracy in the crossover range increases revenue
- Spring-loaded valve eliminates need for frequent adjustment and service
- Combined Turbine and Disc Measuring Elements
  - Industry-leading flow ranges at 98.5%–101.5% accuracy ensure maximum revenue
  - Direct coupling of rotor to gear train ensures accurate registration
  - Unitized Measuring Element (UME) makes maintenance easier and faster with less downtime
  - Calibration vane allows in-line service to extend life and ensure accurate registration
- Compact Bronze Maincase
  - Made from EnviroBrass® II
  - Compact, lightweight design provides for easy installation and in-line serviceability

\*U.S. patent nos. 4,437,344 and 4,429,571