



T-10® METER

SIZES: 5/8", 3/4", and 1"

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



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

The T-10 water meter consists of three major assemblies: a register, a lead free, high-copper alloy 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, lead free, high-copper alloy 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.

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.

All T-10 water meters are guaranteed adaptable to our ARB®V, ProRead™ (ARB VI) AutoDetect, E-Coder® (ARB VII), E-Coder®)R900i™, E-Coder®)R450i™, TRICON®/S, TRICON/E®3, and Neptune meter reading systems without removing the meter from service.

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

- Lead Free Maincase
 - Made from lead free, high-copper alloy
 - NSF/ANSI 372 certified and NSF/ANSI 61 compliant
 - Lifetime guarantee
 - Resists internal pressure stresses and external damage
 - Handles in-line piping variations and stresses
 - Lead free, high-copper alloy provides residual value vs. plastic or composite
 - 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

SYSTEMS COMPATIBILITY

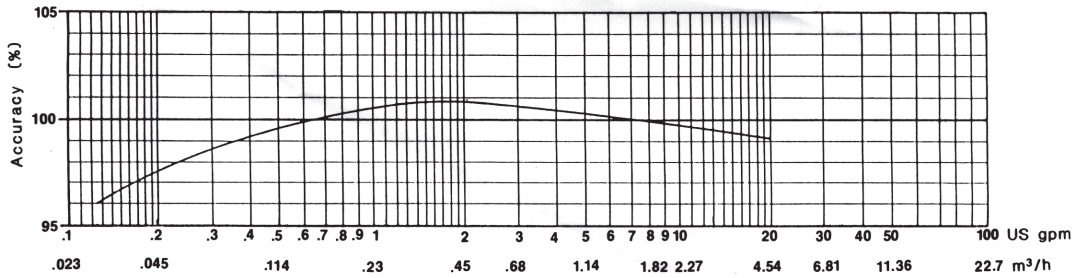
Adaptability to all present and future systems for flexibility is available only with Neptune's ARB® Utility Management Systems™.

CONSTRUCTION

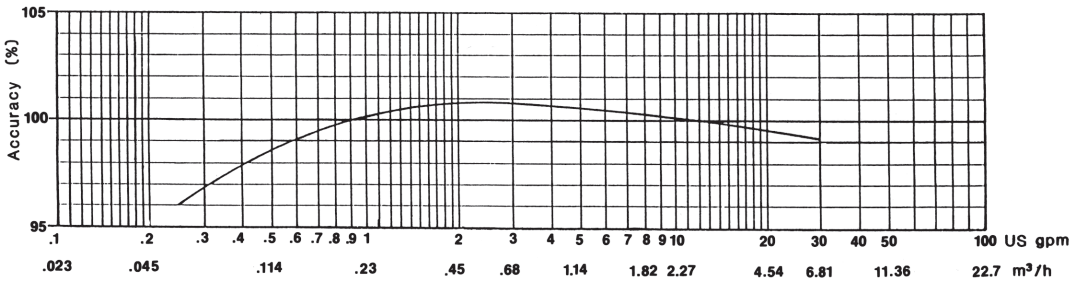
WARRANTY

GUARANTEED SYSTEMS COMPATIBILITY

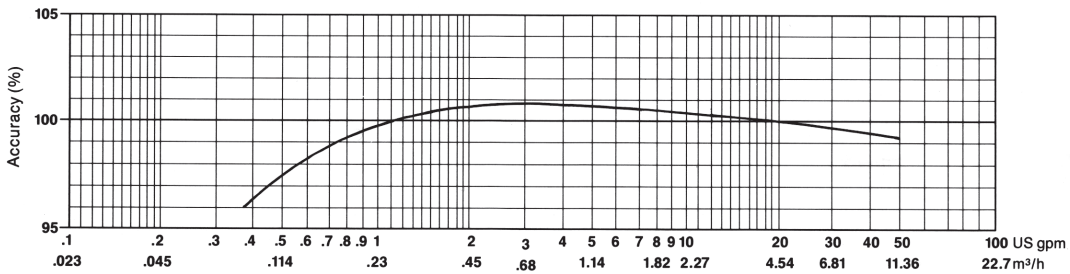
5/8" ACCURACY



3/4" ACCURACY



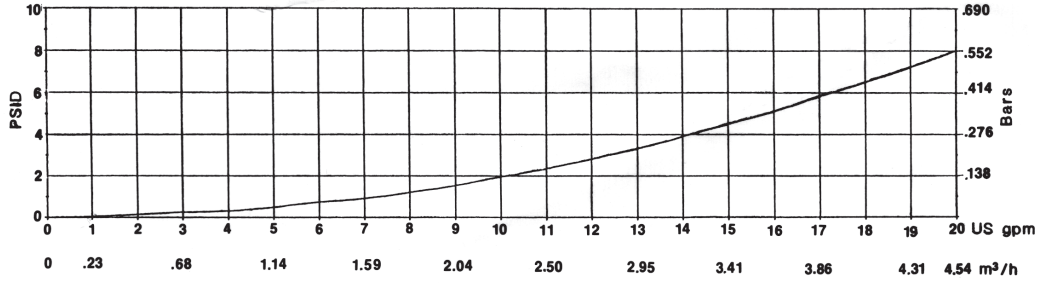
1" ACCURACY



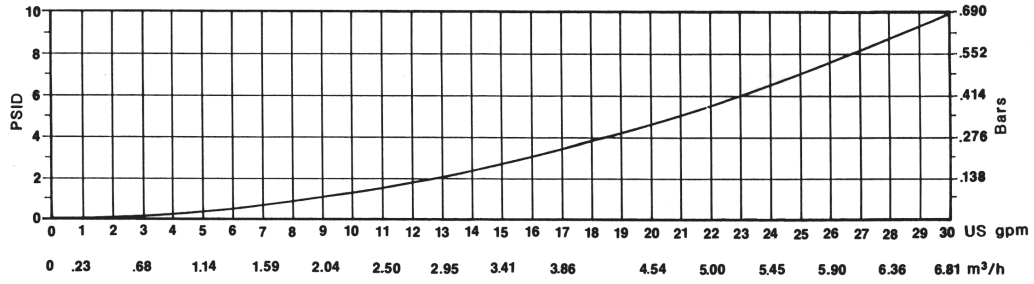
DIMENSIONS

| Meter Size | A in/mm | B in/mm | C-Std. in/mm | C-ARB in/mm | C E-Coder®R900i™ or E-Coder®R450i™ | D Threads per inch | D-OD in/mm | E in/mm | F in/mm | Weight lbs/kg |
|-------------------------|---------------|--------------|-----------------|----------------|---|--------------------------|---------------|-------------|---------------|------------------|
| 5/8" | 7 1/2 191 | 3 5/8 92 | 4 3/8 111 | 5 1/4 133 | 5 1/4 133 | 14 | 1.03 26 | 1 1/2 38 | 2 1/2 64 | 3 1/4 1.4 |
| 5/8" x 3/4" | 7 1/2 191 | 3 5/8 92 | 4 3/8 111 | 5 1/4 133 | 5 1/4 133 | 11 1/2 | 1.29 33 | 1 1/2 38 | 2 5/8 67 | 3 3/8 1.5 |
| Pre 2011 5/8" | 7 1/2 191 | 3 5/8 92 | 4 7/8 124 | 5 1/2 146 | 5 1/2 139 | 14 | 1.03 26 | 1 5/8 41 | 2 1/2 64 | 3 3/4 1.7 |
| Pre 2011 5/8" x 3/4" | 7 1/2 191 | 3 5/8 92 | 4 7/8 124 | 5 1/2 146 | 5 1/2 139 | 11 1/2 | 1.29 33 | 1 5/8 41 | 2 5/8 67 | 4 1.8 |
| 3/4" | 9 229 | 4 3/8 111 | 5 1/2 140 | 6 1/4 159 | 6 1/4 159 | 11 1/2 | 1.29 33 | 1 7/8 48 | 2 5/8 67 | 6 2.7 |
| 3/4" SL | 7 1/2 911 | 4 3/8 111 | 5 1/2 140 | 6 1/4 159 | 6 1/4 159 | 11 1/2 | 1.29 33 | 1 7/8 48 | 2 5/8 67 | 5 1/2 2.5 |
| 3/4" x 1" | 9 229 | 4 3/8 111 | 5 1/2 140 | 6 1/4 159 | 6 1/4 159 | 11 1/2 | 1.62 41 | 1 7/8 48 | 2 3/4 70 | 6 1/2 2.9 |
| 1" | 10 3/4 273 | 6 1/2 165 | 6 3/8 162 | 7 178 | 7 178 | 11 1/2 | 1.62 41 | 2 1/8 54 | 2 3/4 70 | 9 3/4 4.4 |
| 1" x 1 1/4" | 10 3/4 273 | 6 1/2 165 | 6 3/8 162 | 7 178 | 7 178 | 11 1/2 | 1.86 47 | 2 1/8 54 | 2 13/16 71 | 10 1/4 4.6 |

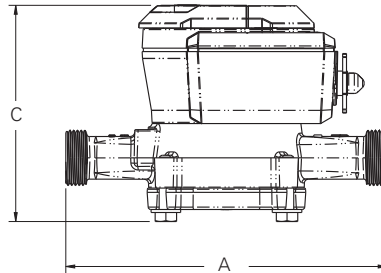
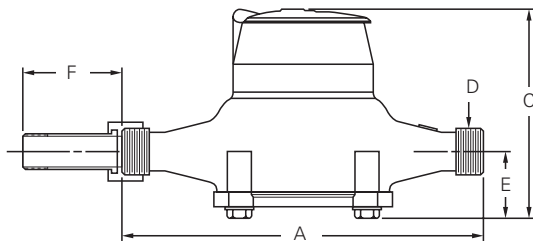
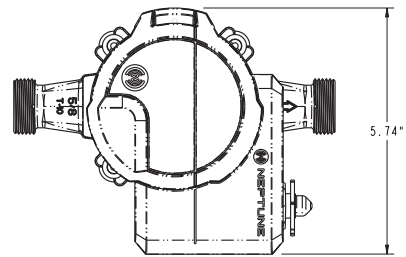
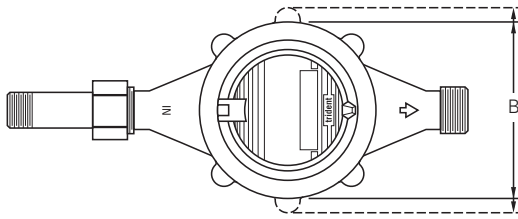
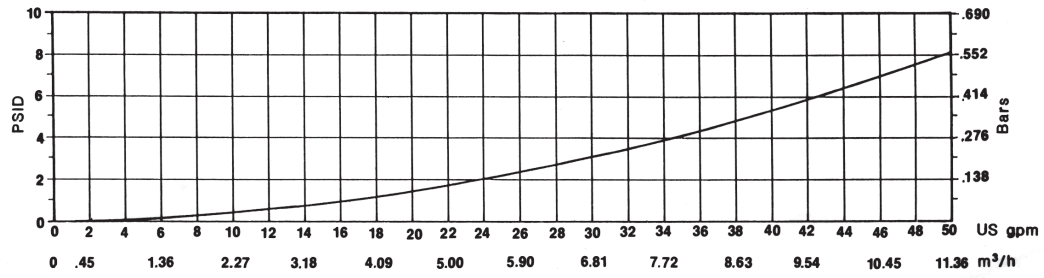
5/8" PRESSURE LOSS



3/4" PRESSURE LOSS



1" PRESSURE LOSS



OPERATING CHARACTERISTICS:

| Meter Size | Normal Operating Range @ 100% Accuracy (+/- 1.5%) | AWWA Standard | Low Flow @ 95% Accuracy |
|------------|--|--|--------------------------------------|
| 5/8" | 1/2 to 20 US gpm 0.11 to 4.55 m ³ /h | 1 to 20 US gpm 0.23 to 4.5 m ³ /h | 1/8 US gpm 0.03 m ³ /h |
| 3/4" | 3/4 to 30 US gpm 0.17 to 6.82 m ³ /h | 2 to 30 US gpm 0.45 to 6.8 m ³ /h | 1/4 US gpm 0.06 m ³ /h |
| 1" | 1 to 50 US gpm 0.23 to 11.36 m ³ /h | 3 to 50 US gpm 0.68 to 11.4 m ³ /h | 3/8 US gpm 0.09 m ³ /h |

REGISTRATION:

| ProRead™ Registration (per sweep hand revolution) | | 5/8" | 3/4" & 1" |
|--|------------------|------|-----------|
| 10 | US Gallons | √ | √ |
| 10 | Imperial Gallons | √ | √ |
| 1 | Cubic Foot | √ | √ |
| 0.1 | Cubic Metre | √ | √ |
| 0.01 | Cubic Metre | √ | |

| Register Capacity ProRead & E-Coder® | | 5/8" | 3/4" & 1" |
|---|------------------|------|-----------|
| 10,000,000 | US Gallons | √ | √ |
| 10,000,000 | Imperial Gallons | √ | √ |
| 1,000,000 | Cubic Feet | √ | √ |
| 100,000 | Cubic Metres | √ | √ |
| 10,000 | Cubic Metres | √ | |

| E-Coder High Resolution (8-digit reading) | | 5/8" | 3/4" & 1" |
|--|------------------|------|-----------|
| 0.1 | US Gallons | √ | √ |
| 0.1 | Imperial Gallons | √ | √ |
| 0.01 | Cubic Feet | √ | √ |
| 0.001 | Cubic Metres | √ | √ |

SPECIFICATIONS

- NSF/ANSI 372 certified and NSF/ANSI 61 compliant
- National Type Evaluation Program (NTEP) certification
- Application: Cold water measurement of flow in one direction in residential service applications
- Maximum operating water pressure: 150 psi (1034 kPa)
- Maximum operating water temperature: 80°F
- Measuring chamber: Nutating disc technology design made from proprietary synthetic polymer

OPTIONS

- Sizes:
 - 5/8", 5/8" x 3/4"
 - 3/4", 3/4" SL, 3/4" x 1"
 - 1", 1" x 1 1/4"
- Units of measure: U.S. gallons, imperial gallons, cubic feet, cubic metres
- Register types:
 - Direct reading: bronze box and cover (standard)
 - Remote reading: ProRead Encoder, E-Coder, E-Coder)R900i, E-Coder)R450i, TRICON/S, TRICON/E3
 - Reclaim
- Bottom caps:
 - Synthetic polymer (5/8" only)
 - Cast iron
 - Lead free, high-copper alloy
- Connections:
 - Lead free, high-copper alloy, straight or bent
- Environmental conditions:
 - Operating temperature: +33° F to +149° F (0° C to +65° C)
 - Storage temperature: +33° F to +158° F (0° C to +70° C)

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