ARB® UTILITY MANAGEMENT SYSTEMS™

NEPTUNE TECHNOLOGY GROUP

T-10® METER

SIZES: 1 1/2" AND 2"

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 has been 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, 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.

WARRANTY

See Neptune Meter Warranty Statement for warranty details.

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

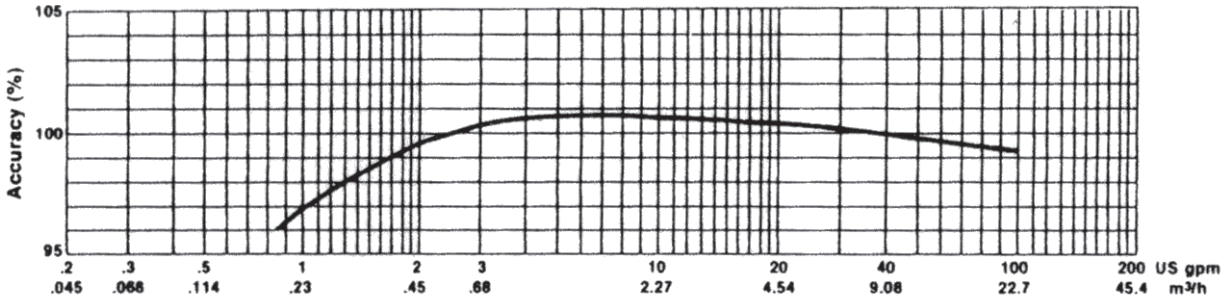
KEY BENEFITS

- 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 61 Certified
  - NSF/ANSI 372 Certified
  - 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
  - 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

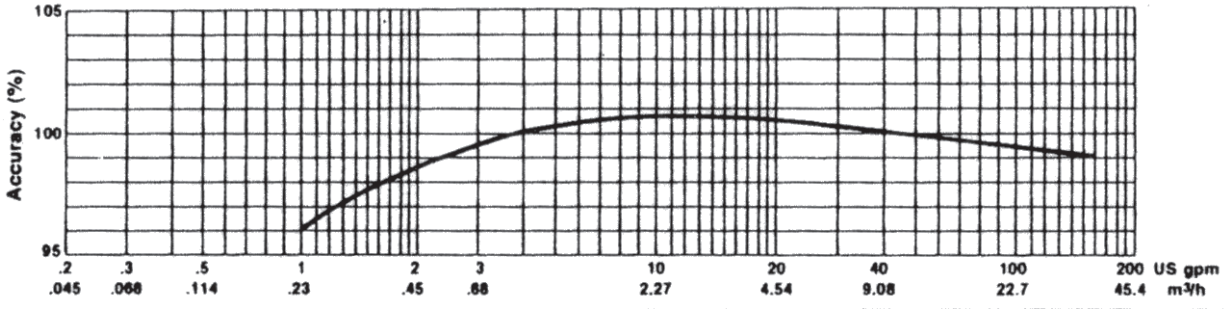
SYSTEMS COMPATIBILITY

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

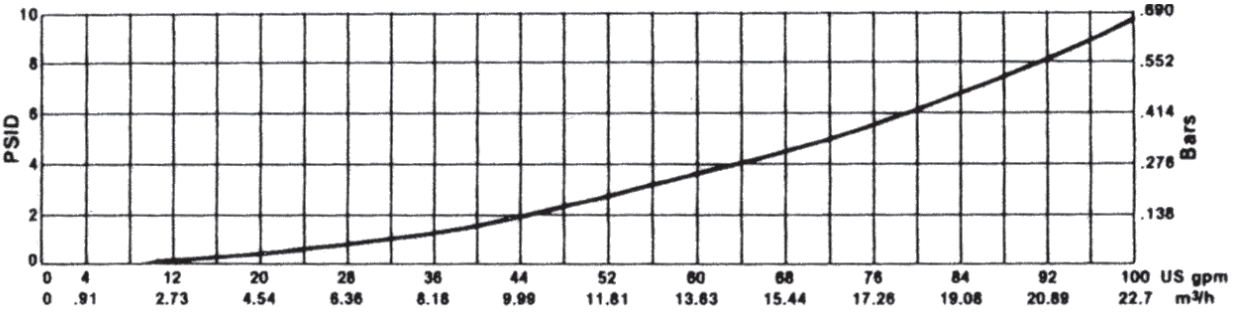
1 1/2" ACCURACY



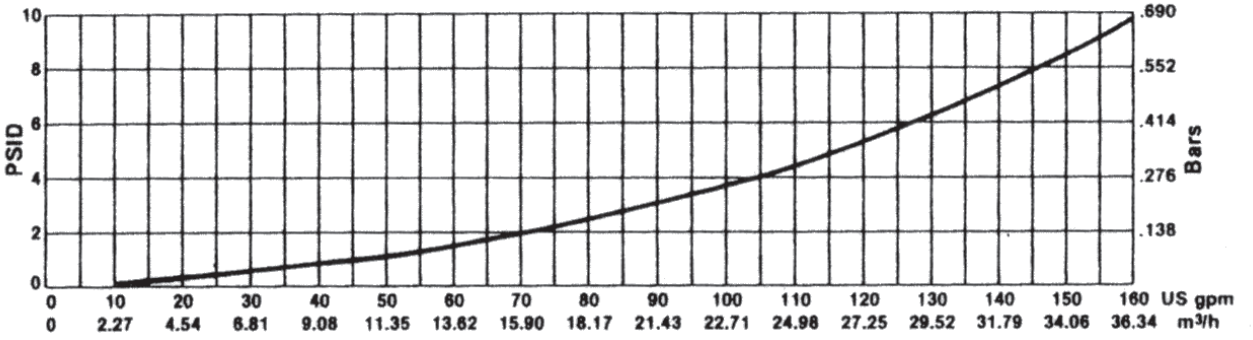
2" ACCURACY



1 1/2" PRESSURE LOSS



2" PRESSURE LOSS



These charts show typical meter performance. Individual results may vary.

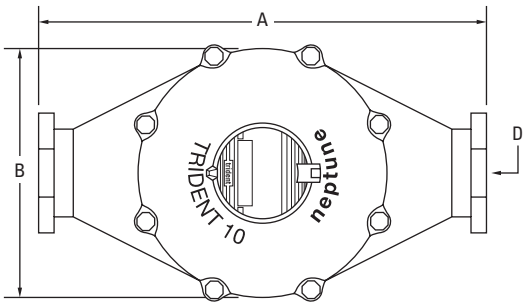
OPERATING CHARACTERISTICS

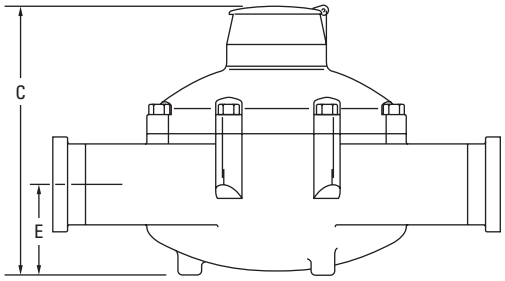
Meter Size	Normal Operating Range @100% Accuracy (±1.5%)	AWWA Standard	Low Flow @ 95% Accuracy
1 ½"	2 to 100 US gpm	5 to 100 US gpm	¾ US gpm
	0.46 to 22.73 m^3/h	1.1 to 22.7 m^3/h	0.17 m^3/h
2"	2 ½ to 160 US gpm	8 to 160 US gpm	1 US gpm
	0.57 to 36.36 m^3/h	1.8 to 36.3 m^3/h	0.23 m^3/h

DIMENSIONS

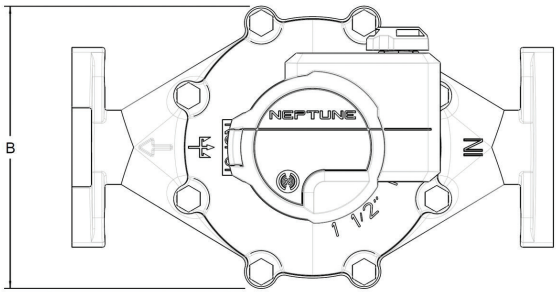
Meter Size	A in/mm	B in/mm	C-Std. in/mm	C-ARB in/mm	C-E-Coder®) R900*i*	D-Threads per inch	D-Thread Type	E in/mm	Weight lbs/kg
1 ½"	12 5/8	8 1/16	8 1/8	8 13/16	8 3/8	11 1/2	1 1/2	2 9/16	31
Screw End	321	205	206	220.3	213		NPT	65	14.1
1 ½"	13	8 1/16	8 1/8	8 13/16	8 3/8	—	—	2 9/16	35
Flanged End	330	205	206	220.3	213			65	15.9
2"	15 1/4	9 7/16	9 5/16	9 15/16	9 1/2	11 1/2	2"	3 1/8	40
Screw End	387	240	237	248.4	241		NPT	79	18.1
2"	17	9 7/16	9 5/16	9 15/16	9 1/2	—	—	3 1/8	44
Flanged End	432	240	237	248.4	241			79	20.0

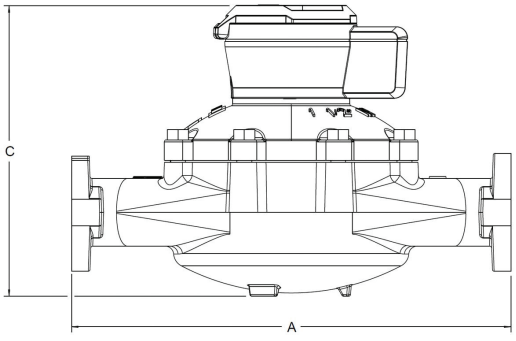
T-10 WITH STANDARD REGISTER





T-10 WITH E-CODER)®R900*i*™ PIT REGISTER





GUARANTEED SYSTEMS COMPATIBILITY

All T-10 meters are guaranteed adaptable to our ARB®V, ProRead™ (ARB VI), E-Coder® (ARB VII), E-Coder®)R900*i*, TRICON®/S, TRICON/E®3, and Neptune ARB Utility Systems without removing the meter from service.

REGISTRATION

ProRead Registration (per sweep hand revolution)		**1 ½"**	**2"**
100	US Gallons	✓	✓
100	Imperial Gallons	✓	✓
10	Cubic Feet	✓	✓
1	Cubic Metre		✓
.01	Cubic Metre	✓	
Register Capacity ProRead & E-Coder		**1 ½"**	**2"**
100,000,000	US Gallons	✓	✓
100,000,000	Imperial Gallons	✓	✓
10,000,000	Cubic Feet	✓	✓
100,000	Cubic Metres	✓	
1,000,000	Cubic Metres		✓
E-Coder High Resolution (8-digit reading)		**1 ½"**	**2"**
1	US Gallons	✓	✓
1	Imperial Gallons	✓	✓
0.1	Cubic Feet	✓	✓
0.01	Cubic Metres		✓
0.001	Cubic Metres	✓	

SPECIFICATIONS

- Certification: NSF/ANSI 61, NSF/ANSI 372
- Application: cold water measurement of flow in one direction
- Maximum operating water pressure: 150 psi (1,034 kPa)
- Maximum operating water temperature: 80°F
- Measuring chamber: nutating disc technology design made from proprietary synthetic polymer

OPTIONS

- Sizes:
  - 1½" flanged or threaded end
  - 2" flanged or threaded end
- Units of measure: U.S. gallons, imperial gallons, cubic feet, cubic metres
- Register types:
  - Direct reading: Bronze box and cover
  - Remote reading: ProRead Absolute Encoder, E-Coder, E-Coder)R900*i*, TRICON/S, TRICON/E3
  - Reclaim
- Measuring chamber: synthetic polymer
- Companion flanges: lead free, high-copper alloy
- Environmental Conditions:
  - Operating temperature: 33ºF to 149ºF (0ºC to 65ºC)
  - Storage temperature: 33ºF to 158ºF (0ºC to 70ºC)
- Test Ports: 1"(optional)

Neptune engages in ongoing research and development to improve and enhance its products. Therefore, Neptune reserves the right to change product or system specifications without notice.

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