A PRODUCT SHEET OF NEPTUNE TECHNOLOGY GROUP

Aquity® Meter

The Neptune® Aquity® meter offers customers a submeter solution when tight installs are required. The meter features Neptune's nutating disc in a short lay length maincase.

Since submeters are typically placed indoors, Neptune's nutating disc measuring element is designed to minimize noise intrusion for tenants. E-CODER® technology allows meter reading without entering the tenant's unit. This eliminates callbacks, shortens the billing cycle, and improves your cash flow.

The advanced technology reduces the administrative work and operating costs associated with metering, reading, billing, and collecting for water usage on multi-family properties. By shifting fixed water costs to tenants, property owners can generate additional profits each month, and the Aquity meter can pay for itself in less than two years.

Systems Compatibility

Adaptability to all present and future systems is available only with Neptune's ARB® Utility Management Systems™. Every Aquity meter meets or exceeds the latest AWWA Accuracy Standard C700. Its nutating disc positive displacement principle is time proven for accuracy and dependability since 1892, ensuring maximum revenue.

Construction

The Aquity meter consists of three major assemblies: encoder register, a cast bronze maincase made from a lead free, high-copper alloy, and a nutating disc measuring chamber. For reading convenience, the register can be mounted in any of four positions on the meter. The corrosion-resistant maincase will withstand most service conditions, internal water pressure, rough handling, and in-line piping stress. For frost protection, cast iron bottom caps are available. The innovative floating chamber design of the nutating disc measuring element protects the chamber from in-line piping variations and stresses 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 material throughout and a thrust roller to minimize wear.

Warranty

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

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

KEY BENEFITS

Register

- Magnetic-driven, low-torque registration ensures accuracy
- Tamperproof meter seal to deter thefts
- Bayonet mount allows in-line serviceability
- Date of manufacture, size, and model stamped on dial face
- High-resolution, low-flow leak detection

Lead Free Maincase

- Made from lead free, high-copper alloy
- NSF/ANSI 61 and NSF/ANSI 372
- Sturdy, durable, corrosion-resistant
- Handles in-line piping variations and stresses
- Residual value

Nutating Disc Measuring Chamber

- Positive displacement
- Widest effective flow range
- Corrosion-resistant
- Floating chamber design is unaffected by meter position or in-line piping stress
- Minimal noise and vibration compared to piston

Guaranteed Systems Compatibility

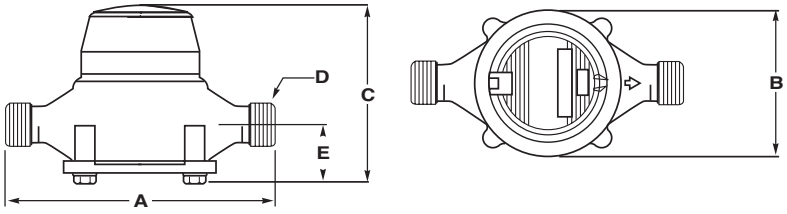
All Aquity water meters are guaranteed adaptable to Neptune meter reading systems without removing the meter from service.

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	1 to 20 US gpm	1/4 US gpm
	0.11 to 4.55 m³/h	0.23 to 4.5 m³/h	0.03 m³/h

Dimensions

Meter Size	A in/ mm	B in/ mm	C	D- Threads NSPM	D OD	E in/ mm
5/8" x 3/4"	6	3 5/8	5 5/8	1" - 11 1/2	1,290	1 5/8
	152	92			33	41



Specifications

Certification

- NSF/ANSI 61 and NSF/ANSI 372 certified

Size

- 5/8" x 3/4"

Weight (approx.)

- 4 lbs/1.8 kg

Application

- Cold water measurement of flow in one direction, horizontally installed

Maximum operating pressure

- 150 psi (1034 kPa)

Register

- ProRead™ absolute encoder, ProCoder™, E-CODER®, E-CODER®)R900*i*™, E-CODER®)R450*i*™, E-CODER®)L900*i*™

Measuring chamber

- Nutating disc, synthetic

Maximum operating temperature

- 80°F

Options

Units of measure

- US gallons
- Cubic feet
- Cubic metres

Electronic accessory equipment

- ProRead/Programmer
- Advantage
- Pocket ProReader RF
- Trimble Ranger or Nomad

Bottom caps

- Cast iron
- Synthetic polymer
- Lead free, high-copper alloy

NEPTUNE TECHNOLOGY GROUP

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