



PD Water Meter

1 1/2" thru 2"



Features and Benefits

- ⇒ Meets or exceeds AWWA C700 Standard
- ⇒ High Quality NSF-61 Bronze Construction
- ⇒ 5-year New Meter Accuracy
- ⇒ 25-year Standard Warranty for Body
- ⇒ Copper Can Sealed Register
- ⇒ Durable Strainer Protects Against Damage
- ⇒ Rated to 120°F
- ⇒ Great Low Flow Accuracy
- ⇒ Large Easy to Read Numbers
- ⇒ Tempered Glass Resists Scratching
- ⇒ Tamper Resistant

Application The C700 Meter is used for measuring potable cold water up to 120°F (50°C) and working pressures up to 150 psi. It can be used in residential, commercial or industrial applications, where water flows in one direction only.

Main Case The main casing complies with the NSF/ANSI Standard 61. The main case shows the size of meter and direction of flow.

Magnetic Drive Direct magnetic drive through the use of high strength magnets provides linkage between measuring element and register. No intermediate gearing is required thus no gearing is exposed to water.

Servicing BluTower meters are designed and manufactured to provide long-term service with minimal maintenance.

Operation The C700 is an oscillating piston style, positive displacement water meter. The meter utilizes a piston that water flow rotates in a measuring chamber, each piston revolution being equivalent to a known volume of water. The piston movement is transferred by a magnetic drive to a straight reading sealed register which contains the appropriate reduction gearing.

Strainers All meters have a rigid thermoplastic strainer installed. The strainer is designed to smooth the flow of water entering into the meter and protecting the critical measuring element from damage.

Installation The meter must be installed in a clean pipeline, free from any foreign materials. Install the meter with the direction of flow as indicated by the arrow cast in the meter case. The meter may be installed in horizontal, vertical or inclined lines.

METER OPERATING CHARACTERISTICS/DIMENSIONS		
Sizes	1 1/2"	2"
Typical Operating Range (100% \pm 1.5%)	5 - 100 gpm	8 - 160 gpm
Low Flow (Min. 95%)	1 1/2 gpm	2 gpm
Maximum Continuous Operating Flow	50 gpm	80 gpm
Maximum Operating Capacity	100 gpm	160 gpm
Pressure Loss at Max. Continuous Flow	11 psi	12 psi
Maximum Operating Temperature	120°F	120°F
Maximum Operating Pressure	150 psi	150 psi
Meter Length (Flange Ends)	13 inches	17 inches
Meter Height	7 3/4 inches	8 inches
Number of Bolts	2	2
Bolt Size	5/8 x 2.5 inch	3/4 x 2 3/4 inch
Weight	23 lbs	35 lbs



Register

The standard register consists of an odometer type display, showing the total amount of water use. One revolution of the sweep hand will be equal to 100 gallons/10 cu ft. It is copper canned and vacuum sealed, making it impossible for the register to fog. The lens is scratchproof made of tempered glass. The 1:1 piston ratio low-flow indicator gives a visual indication of a leak.

Materials

Main Case	NSF-61 Bronze
Measuring Chamber	Thermoplastic
O-Ring	Nitrile Rubber
Magnet	Ceramic Ferrite
Strainer	Thermoplastic
Register Lens	Tempered Glass
Gearing Wheels	Thermoplastic
Register Housing	Bronze or Thermoplastic

Register includes the following

Size of Meter
Center Sweep Hand
Month and Year of Manufacture
Large, Easy to Read Numbers
Low Flow/Leak Indicator
Type of Reading (US Gallon, Cubic Feet)

Connector Flanges for installation of meters on various types and sizes of pipe are available as an option.

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