



Features and Benefits

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

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 meets the requirements of NSF/ANSI Standard 61. The main case shows the name of the manufacturer, size of meter and direction of flow. Bottom plates are available in bronze or a suitable engineering plastic. They have externally threaded ends.

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	5/8" x 1/2"	5/8" x 3/4"	3/4"	1"
Typical Operating Range (100% ± 1.5%)	1/4 - 20 gpm	1/4 - 25 gpm	1/2 - 30 gpm	3/4 - 60 gpm
Low Flow (Min. 95%)	1/8 gpm	1/8 gpm	1/4 gpm	1/2 gpm
Maximum Continuous Operating Flow	15 gpm	20 gpm	25 gpm	40 gpm
Maximum Operating Capacity	20 gpm	25 gpm	35 gpm	60 gpm
Pressure Loss at Max. Continuous Flow	7.0 psi	7.0 psi	9.0 psi	7.3 psi
Maximum Operating Temperature	120°F	120°F	120°F	120°F
Maximum Operating Pressure	150 psi	150 psi	150 psi	150 psi
Meter Length (Screw Ends)	7 1/2 inches	7 1/2 inches	7 1/2 inches	10 3/4 inches
Meter Casing Spuds (Nominal Thread Size)	3/4 inch	1 inch	3/4 inch	1 1/4 inches
Coupling (Tailpieces) Length	2 3/8 inches	2 1/2 inches	2 1/2 inches	2 5/8 inches
Nominal Thread Size	1/2 inch	3/4 inch	1 inch	1 inch
Weight	3.6 lbs	4.0 lbs	5.8 lbs	11.0 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 10 gallons/1 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
Register Housing	Bronze or Thermoplastic
Gearing Wheels	Thermoplastic

Register includes the following

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

Connector Tailpieces/meter couplings are available as an option.

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