



TOWER

Multi-Jet Water Meter

Bottom Load 5/8" thru 1"



Features and Benefits

- ⇒ Meets or exceeds AWWA C708 Standard
- ⇒ Tamper Resistant
- ⇒ High Quality NSF-61 Bronze Construction
- ⇒ 5-year New Meter Accuracy Warranty
- ⇒ 25-year Standard Warranty for Meter Body
- ⇒ 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 C708 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. Choose an optional ESP integrated AMR Register for use in mobile and fixed network AMR/AMI systems.

Operation Velocity-type meter. Water, evenly distributed by multiple jet nozzles, flows past an impeller in the measuring chamber, creating an impeller velocity directly proportional to water flow rate. The meter's register integrates velocity into totalized flow and is removable under line pressure permitting simplified upgrades in reading technology.

Main Case The main casing complies with the NSF/ANSI Standard 61. The main case shows the name of the manufacturer, size of meter and direction of flow. It has externally threaded ends.

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.

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.

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 is recommended to be installed in a horizontal position with the register facing upward.

Servicing BluTower meters are designed and manufactured to provide long-term service with minimal maintenance. The measuring chamber assembly can be removed in order to be repaired or replaced if needed.

Connector Tailpieces/meter couplings are available as an option.

METER OPERATIONAL CHARACTERISTICS/DIMENSIONS

Sizes	5/8" x 1/2"	5/8" x 3/4"	3/4"	1"
Typical Operating Range (100% ± 1.5%)	1/4 - 25 gpm	1/4 - 28 gpm	1/2 - 30 gpm	3 - 60 gpm
Low Flow (Min. 95%)	1/8 gpm	1/8 gpm	1/4 gpm	3/4 gpm
Maximum Continuous Operating Flow	20 gpm	20 gpm	25 gpm	40 gpm
Maximum Operating Capacity	25 gpm	28 gpm	30 gpm	60 gpm
Pressure Loss at Max. Continuous Flow	7.0 psi	7.0 psi	7.0 psi	7.0 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 inches	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	4.2 lbs	4.7 lbs	5.8 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 impeller ratio low-flow indicator gives a visual indication of a leak.

Materials

Main Case	NSF-61 Bronze
Measuring Chamber	Thermoplastic
O-Ring	Nitrile Rubber
Impeller	Thermoplastic
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)

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