



Master Meter's latest innovation in the science of material design and construction is our EcoMaster™ Main Case for Positive Displacement and Multi-Jet Measurement Chambers. With no wetted metallic surface area, the EcoMaster complies with the latest rigorous environmental standards consistent with the 2014 Safe Drinking Water Act (SDWA).

Technical Specifications:

AWWA Standard — Meets or exceeds all performance sections of Standard ANSI/AWWA C700 and ANSI/AWWA C708

NSF/ANSI Standard 372 — NSF 372 certification pending

Register — All direct reading and DIALOG® registers are IP68+ rated, permanently sealed with a scratch resistant glass lens, stainless steel base and engineered wrap-around gasket to prevent intrusion of dirt or moisture

Register Units — Registration available in either U.S. gallons, cubic feet or cubic meters

Magnetic Drive - A reliable, direct magnetically coupled drive provides linkage between the measuring element and register so that no gearing is exposed to water

Features & Benefits:

- Strong marine-grade aluminum exoskeleton reduces the risk of cross threading and possible body damage caused by misaligned meter settings common with composite body designs.
- Each meter's more than 50% weight reduction helps eliminate harmful CO₂ from the atmosphere and promotes a more green utility.
- Intelligent exoskeleton design preserves body rigidity and electrical conductivity without exposing water flow to metal surfaces.
- Assures compliance with coming changes to the Safe Drinking Water Act (SDWA), effective January 4, 2014.
- Independently tested new meter accuracy to 4,000,000 USG with either the Master Meter Positive Displacement or Multi-Jet Measurement Chamber Technology.
- Eco-friendly design provides full compliance with ANSI/NSF 372 (AB 1953 or NSF61G)
- Available in sizes 5/8" through 1" (Fall 2012)

Technical Specifications (Cont'd):

Design/Operation — Structural design science that retains 100% structural rigidity not found in competitive plastic or composite designs. This ensures protection from excessive torquing, and shifting from seismic forces or ground settling.

Hybrid Main Case Construction — Rigid outer skeleton reinforcing saddle is a proprietarily coated non-wetted metallic part constructed of marine quality type 356 aluminum.

At assembly this saddle is preferentially preloaded to assist the meter body to resist the stresses and strains associated with sifting earth movement, water loads from water hammer, excessive pressure excursions and/or provides additional resistance to the stripping of metal threads due to excessive applied tightening torque and/or cross threading. This proprietary design provides continuous electrical conductivity without the need for ground strap.

Measuring Chamber — The internal chamber science comes unchanged from our proven MMPD Positive Displacement and BLMJ Multi-Jet meter series with independently verified accuracy that meets AWWA new meter standards after 4,000,000 USG of continual use (35+ years simulated wear).

Low Flow/Leak Indicator — Clearly visible leak indicator with high sensitivity resulting from direct one-to-one linkage to the measuring element.

Internal Measuring Element — Internal wetted surfaces are identical to proven Master Meter PD and Multi-Jet product design that utilizes non-hydrolyzing polypropylene materials of construction to mitigate wear and assure it will not break down over time.

Bottom Plates — Engineered Polymer.

Strainer — A rigid, advanced polymer strainer is provided with more than 2 times the open area of the pipe. The unique strainer design smooths the flow of the water entering into the meter creating a flow profile that is gentle on the meter's internal components. Tough materials operating in a smooth, balanced environment enable the meters to perform more accurately over time.

Standard EcoMaster Water Meter

METER OPERATING CHARACTERISTIC/DIMENSION	5/8 x 3/4"
Flow Rating (gpm)	20
Continuous Flow (gpm)	10
Normal Flow Range (gpm)	1-20
Low Flow (gpm @ > 97%)	1/4
Extended Low Flow (gpm @ > 95%)	1/4
Maximum Working Pressure (psi)	150
Maximum Working Temperature (°F)	105
Specific Displacement (revs/gallon)	56.4/1
Headloss at Maximum Flow Rate (psi)	6.5
Length (A below)	7.5"
Width (B below)	5
Height (C below)	5-4/5"
Weight (lbs)	3.55
Packed To Carton	6
Carton Weight (lbs)	21.8

