

MAC

Meter Accountability Check

Owners Manual



Test Requirements For New, Rebuilt and Repaired Cold Water Meters Positive Displacement Meters AWWA C700 and C710

Size In.	Max Flow	Limits	Int. Flow	Limits	Min Flow	Limits
5/8	15	98.5-101.5	2	98.5-101.5	1/4	95-101
5/8 x 3/4	15	98.5-101.5	2	98.5-101.5	1/4	95-101
3/4	25	98.5-101.5	3	98.5-101.5	1/2	95-101
1	40	98.5-101.5	4	98.5-101.5	3/4	95-101

Test Requirements For New, Rebuilt and Repaired Cold Water Meters Multi Jet Meters AWWA C708

Size In.	Max Flow	Limits	Int. Flow	Limits	Min Flow	Limits
5/8	15	98.5-101.5	2	98.5-101.5	1/4	97-103
5/8 x 3/4	15	98.5-101.5	2	98.5-101.5	1/4	97-103
3/4	25	98.5-101.5	3	98.5-101.5	1/2	97-103
1	40	98.5-101.5	4	98.5-101.5	3/4	97-103

Care and Maintenance:

Protect From Impact: The MAC tester is a precision test instrument and should be handled accordingly. Contact your provider for available transfer mounting kits if storage in service trucks expected.

Memory Foam Seal: Do not store in assembled position. Always wet the base and seal before attempting to level the unit.

Maintenance: Keep the unit clean and free of debris.

Tension Adjustment: If the shaft loses tension, loosen lower nuts on the U-Bolt in the Dome Base. Turn upper nuts 1 full turn and secure lower nuts and test. Repeat if necessary.

Do More... with Do-Mac



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Do-Mac Manufacturing Delray Beach Florida

Directions for Use:

Do not level the unit until you've wet the seal and base.

This lubricates the seal and remove dust and debris.

Follow the instructions below for best results

- 1) Set the **MAC** close to the nearest hose bib and attach to the water supply. Place Measuring Unit (**MU**) lightly on the Base.
- 2) Open the hose bib to purge all air from the line.
- 3) Close the water supply at the supplied valve on the **MAC** Tester.
- 4) Lift the **MU** from Base to drain. This also helps to wet and lubricate the Seal.
- 5) Lean the **MU** towards Drain Rest - attach the shaft. **Ease the tension on the shaft while leveling.**
- 6) Thoroughly check the meter for any water usage - then take note of the sweep hands position.
- 7) Open the Valve on the **MAC** Tester and fill to the 10 Gallon/ 1 Cubic Foot mark.
- 8) Add Both measurements and divide by 2
- Compare this number to Meter



Flush and drain while on base



To attach shaft, Push down and twist latch into U-bolt



Ease tension while leveling by squeezing shaft knob downward with the aid of the handles



Lean to Drain Rest to drain the chamber

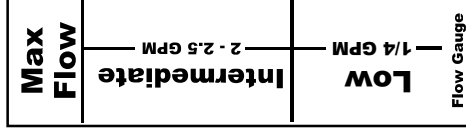
The MAC (Meter Accountability Check) is designed for residential water meters and can quickly illustrate if a meter is within AWWA accuracy standards.

Your MAC Tester is within 0.5 % accuracy

Using the Flow Gauge:

The MAC Tester comes equipped with a built in **Flow Gauge**. All meters will measure water differently at various flows rates. As per AWWA, tests should be run at; Low, Intermediate and Max Flow ranges.

Keeping the water turbulence below the bottom line on the **Flow Gauge** will produce a ¼ gpm. For Intermediate Flows, the second line will produce 2-3 gpm. For Max Flow, open the **MAC Valve** to full port.



Over Reads/ Fast Meters

Cause	Solution
Defective Meter	Send Meter to Shop for Repair
Water in use during tests	Insure no water is in use during test
Air in Line	Purge the supply lines longer
MAC Tester not Level	Level and add both measurements - then divide by 2

Quick Test:

Once the MAC Tester is level, all air has been purged from the supply line and you are assured no water is being used down stream, start to fill the unit at the Intermediate Flow. Fill the unit at this rate until you reach 2 gallons.

At the 2 gallon mark, throttle the valve to the Low Flow and keep filling until you reach the 3 gallon mark. At the 3 gallon mark turn the valve to allow full/ Max Flow and QS to the 10 gallon or 1 cubic foot mark.

CAUTION:

Unit Becomes Top Heavy
Keep a hand near the unit while filling.
An off level unit or even high winds could cause the MAC Tester to topple over.