



**#03-75
RESOLUTION
OF THE
BOARD OF DIRECTORS
OF THE
D.C. WATER AND SEWER AUTHORITY**

WHEREAS, the regulatory changes approved by the Board in Resolution #03-14 provided the Authority with ownership of the commercial meters, but left ownership of the meter pit, valves and piping with the property owner; and

Water Meter Issues and Potential Violations



Some meter vaults in high traffic areas are covered with a heavy cast iron top, the transmitter signal cannot get out.



Water Meter Issues and Potential Violations



A replacement for the heavy cast iron lid is a composite lid but it does not always fit tight and it may not be strong/safe enough to support heavy traffic.

Water Meter Issues and Potential Violations



Meter vaults located in driveways are also problematic: often the white composite inserts used to attach the transmitter break when cars drive over them. The broken insert and transmitter then drop into the vault.

Water Meter Issues and Potential Violations



The transmitter for this meter was found in the bottom of the meter pit, as a result the customer was receiving estimated bills.

Water Meter Issues and Potential Violations



Many meters eventually get covered with mulch or dirt which can affect the transmission signal.

This meter is located behind the fence, under the dirt and grass.

It is not always clear, but most meters typically have a valve shut off 3-5 feet away from it.



Where is the valve shut off?

Water Meter Issues and Potential Violations



When DC Water is asked to investigate an account that is receiving estimated bills, and they determine that the meter or transmitter needs to be changed, they will first look check the age and brand of the meter. Next they will determine if gate valves or ball valves are present before and after the meter.

If gate valves are present the owner will be told that they need to replace the gate vales with balls valves first.They will also check the age and brand of meter.

Water Meter Issues and Potential Violations



If the meter is older (AMCO or ABB) the meter will need to be upgraded.

Water Meter Issues and Potential Violations



If old gate valves are present, DC Water will issue a violation and request that the valves be changed before they will change the meter. Because of the position of the valves it usually requires that the vault be replaced at the same time – approximate cost is \$7,500 per vault.

Water Meter Issues and Potential Violations

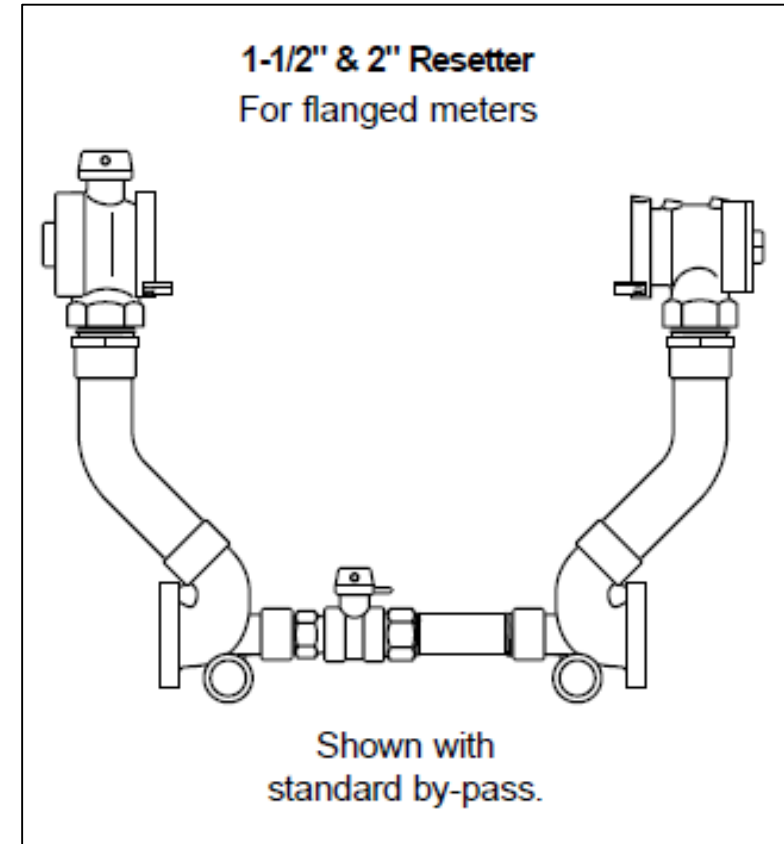


New meters currently being installed by DC Water are Hersey

Water Meter Issues and Potential Violations



Typical meter resetters can help in some cases but they raise the meter up by approximately 14" which is often too high. Cost of this resetter is \$2,000 plus installation.



Water Meter Issues and Potential Violations



An alternative solution is to use Water Management's custom design perpendicular resetter – the 90° perpendicular resetter design only raises the water meter by 3½”.



Water Meter Issues and Potential Violations



Before – with old gate valves



After – with the perpendicular resetter



Water Meter Issues and Potential Violations



For more information on how to solve difficult meter reading and or monitoring problems contact:

Water Management, Inc.

703-370-9070

www.watermgt.com