

This month's edition of Netafim TechTALK focuses on Water Meters.

If you've ever wondered about that little wire running through the bolt and cap on a Netafim water meter then today is your lucky day... we're going to tell you. In the past, we've talked a little bit about factors that can affect a water meter's accuracy, namely a partially full pipe (air in the water) or having the meter installed incorrectly (water 'spills' through the meter). Well another factor that can affect a meter's accuracy is its calibration.

All Netafim meters are calibrated at the factory and should not require any calibration in the field. A tamper-proof seal is installed on every meter to protect the meter from having its calibration adjusted or its register or metering components removed (see FIGURE 1). If the seal is removed, the meter's warranty will become void. Each meter has a calibration certificate which should be removed and stored in a safe location.

Netafim mechanical water meters are calibrated using a calibration screw that is hidden by a brass bolt next to the register. The brass bolt has to be removed in order for the meter's calibration to be adjusted. The bolt you see on the surface does nothing to affect the meter's accuracy. There may be times when you or a water district representative encounter a meter with a loose tamper-proof seal. As long as the seal isn't loose enough for the bolt to be removed, you have nothing to worry about.

Once the seal and calibration bolt have been removed, the calibration screw should be visible (see FIGURE 2). At this point a technician could adjust the screw to fine tune the meter's accuracy against a different, certified, meter. A cut-away view of the inside of a Netafim WST meter is shown in FIGURE 3. The yellow circled portion shows the connection between the calibration screw and the calibration flag. As the calibration flag is adjusted, the angle at which the water contacts the blades is changed.

Most water districts require the meters to be calibrated by a certified technician and to have a calibration certificate. After the meter has been recalibrated, it should then be resealed before being put back into operation. If the need arises to have a water meter recalibrated, Netafim has an agreement with a company in Minnesota called Mid America Meter. They are certified to service and calibrate any 2" to 12" meter. You may work with them directly by calling (800) 324-0365 or by emailing [sales@midamericameter.com](mailto:sales@midamericameter.com).

For additional questions, contact your Netafim representative or visit our website at [www.netafimusa.com](http://www.netafimusa.com).

If you have a suggestion for a future topic, we'd love to hear from you. Please e-mail your idea to [netafim.usa@netafim.com](mailto:netafim.usa@netafim.com). Thank you.

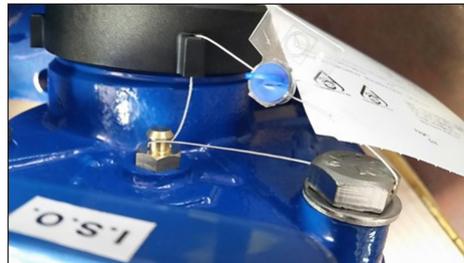


FIGURE 1 - A tamper-proof seal is securing the register, calibration bolt and metering chamber bolt.



FIGURE 2 - The seal and calibration bolt have been removed revealing the calibration set screw.

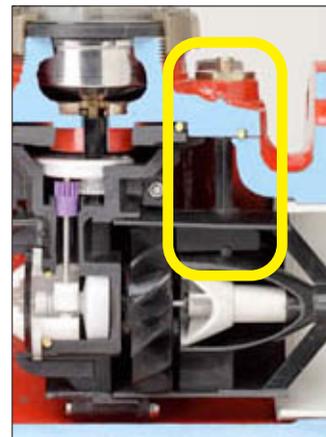


FIGURE 3 - The calibration flag located in the metering chamber is at the other end of the calibration screw.