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McCrometer FPI Insertion Magmeter Used to Accurately Inventory and Diagnose Wasted Water in Distribution

In the last 3 years Arnold Utilities has been working with their Engineer to reduce expensive lost water, and more accurately inventory water use and water distribution within their system. The Arnold system has a large industrial base intermixed with their residential customers, a much larger industrial base of customers than is typical for a utility of their size, this creates significant water usage and supply issues for them.

Arnold and their Engineer determined that they needed to strategically place large flowmeters throughout the system to provide a better picture of consumption, water loss, and distribution issues.

Arnold and their Engineer however wanted to keep costs to a minimum, reduce required downtime while installing the flowmeters, minimize infrastructure upset, while incorporating a highly accurate flowmeters with the ability to be incorporated into a AMI / AMR system with Sensus protocol for future development and use.

They determined that the McCrometer FPI Insertion Magmeters meet their needs and have been installing the meters over the last 2 years, they have now installed 21 FPI's from 8" to 14" and still have others to be installed.

The FPI insertion magmeters provide accuracies to 99.5%, are much less expensive than full spool piece type magmeters as you get into medium to large size lines, and the FPI (up to 138") can be hot tapped on any size line via a 2" saddle while the line is operation. Because the FPI is less costly than medium and large full magmeters, can be installed via hot tap, and eliminates the need for cutting and welding pipe, an owner can save up to 45% on ownership and installation costs.

The FPI will provide bi-directional flow monitoring, and will provide a 4-20 ma dc output, as well as options for Hart, Modbus, Profibus, and RS485 for connections to DCS systems. The unit maybe provided with a SMART Output which can communicate with AMI /AMR systems such as Sensus and Itron, and older FPI's can be retrofitted with the SMART output to also make them able to communicate with AMI / AMR systems.

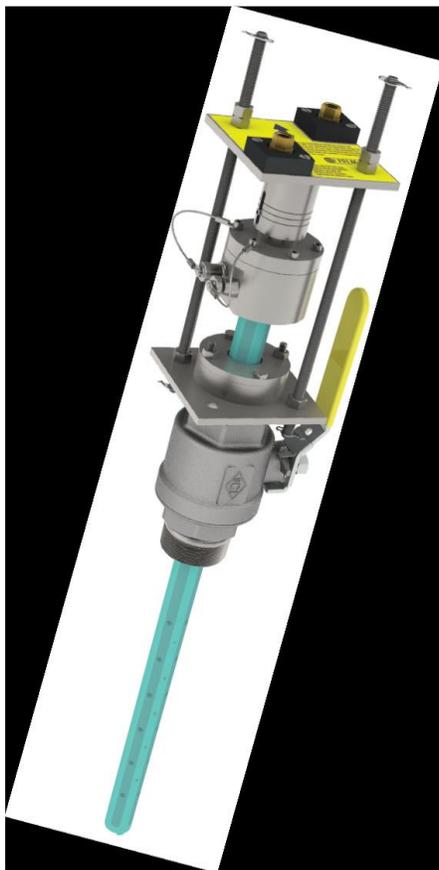
Now that Arnold Utilities has installed their first 21 FPI's they can begin to determine where they are losing expensive water, where water usage maybe be going that is not billed for, where



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consumption and other distribution issues may require modifications to better meet needs and do so with a higher degree of operational cost and efficiency. The automation that the FPI's provide will greatly reduce the time and cost of water audits and inventory analysis.

Once Arnold has the entire system fully monitored by the FPI's they can have real time data to meet all their distribution needs and issues, which will greatly save costs and time, and eliminate wasting and or losing costly water.



Pictured is the FPI insertion magmeter
Going through a shutoff valve to be used
On a hot tap.

For More Information Contact;
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