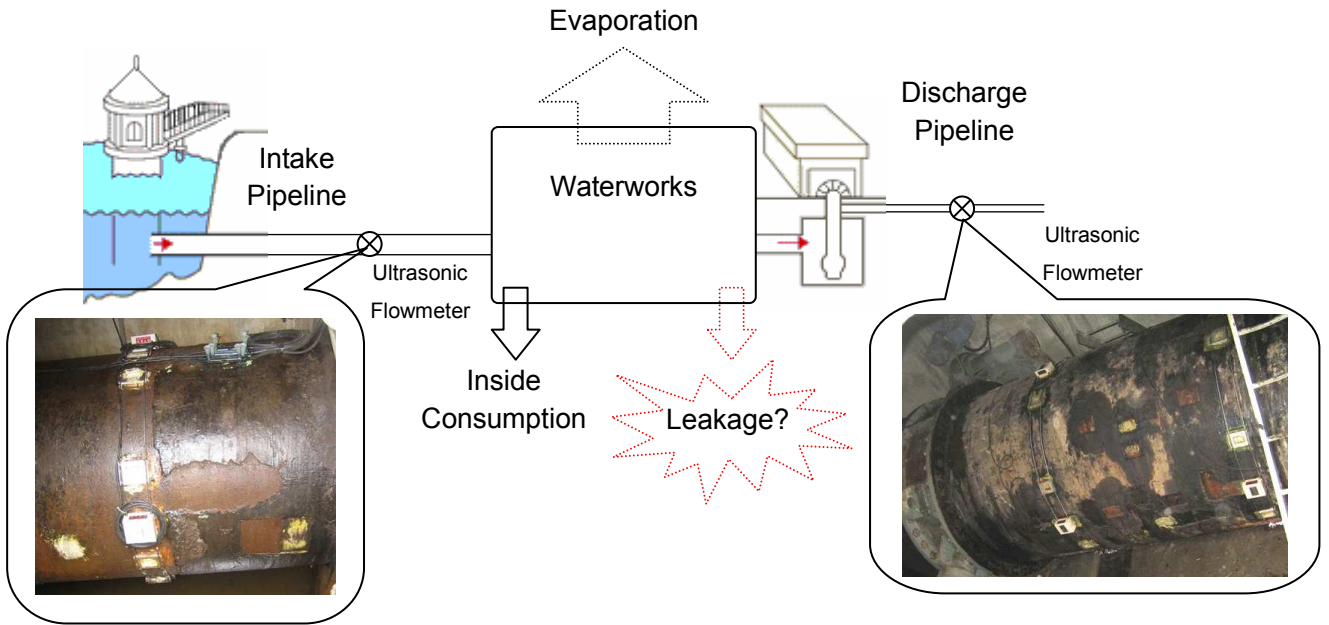


# Ultrasonic Flowmeter Application Report 33

## - Water Purification Efficiency Monitoring -



The UFL-30 series stationary, clamp-on ultrasonic flowmeter with multi-path measurement capability incorporating up to 4 pairs of transducers placed on the outside of pipes provides stable instantaneous flow rate measurements.

At this particular case, the UFL-30 series stationary flowmeter with multiple pairs of sensors measures the flow rate through intake & discharge pipelines connected up to waterworks, non-intrusively, from the outside with no interference of flow. Because, advanced cities focus attention on not only water leakage in distribution pipelines but also leakage from facilities inside waterworks in order to increase their Revenue Ratio of water supply.

Two or four pairs of sensors are located on the pipe to monitor flow rate data on totalized values at each measuring points. In this case, the water supplier needs to evaluate purification efficiency of their facility. Therefore, they compare flow rate between each pipeline intake and discharge, and discharged volume should generally be a little smaller than intake due to inside consumption and evaporation. However, if the discharged volume is too small, it is necessary to presage water leakage inside of the waterworks. In order to evaluate leakage scale, the water supplier hopes to measure flow rate as accurately as possible. In such case, multi-path measurement provides good performance.

Multi-path measurement is a feature of our UFL-30 series stationary clamp-on ultrasonic flowmeter. By employing the UFL-30 series stationary clamp-on ultrasonic flowmeter in combination with the appropriate sensor from the variety available and/or the system's multi-path measurement capability. You may be able to obtain high stable flow

measurements of pipes from 25mm up to 6000mm in nominal diameter under less than ideal conditions.

In addition, the all-in-one UFL-30 main unit boasts two independent analog outputs, 4 varieties of contact outputs for totalizing or warnings, and 2 digital communication ports (RS-232C). The Windows-based graphical and user-friendly PC interface is easy to configure and set up.

#### [ Pipe Specification ]

Pipe DN : more than 1000mm  
 Pipe material : Carbon Steel  
 Lining : Epoxy

#### [ Installation Data ]

Main Unit : Stationary Ultrasonic Flowmeter UFL-30  
 Transducer : SE044040NC  
 Installation : V method / 2 path or 4 path

For more detailed information, please contact your local representative.

Representative in your Area