

Minimum Test Quantity

"The minimum quantity of water that must pass through the meter to ensure that there is a high level of confidence that the results of the test are accurate"

7.4.2.2.6 Calibrated reference device

7.4.2.2.6.1 Expanded uncertainty of the value of measured actual volume

When a test is conducted, the expanded uncertainty in the determination of the actual volume passing through a water meter shall not exceed one-fifth of the applicable maximum permissible error for type evaluation and one-third of the applicable maximum permissible error for initial verification.

Note: The uncertainty of the measured actual volume does not include a contribution from the water meter.

The estimated uncertainty shall be made according to OIML G 1-100 with a coverage factor, $k = 2$.

7.4.2.2.6.2 Minimum volume of the calibrated reference device

The minimum volume permitted depends on requirements determined by the test start and end effects (timing error), and the design of the indicating device (value of the verification scale interval).