UFR

Unmeasured flow Reducer

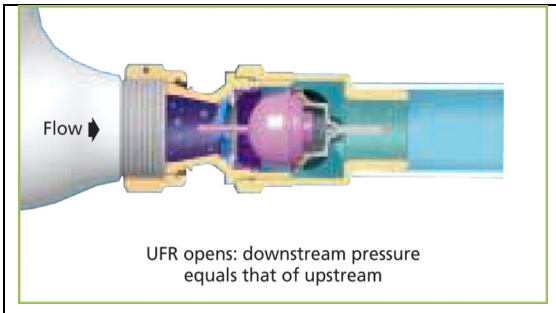
Water meters, in general, have difficulty in measuring water quantity at low flow rates. Below a specific threshold flow rate, a typical velocity type water meter does not start to measure the water quantity. Just above that threshold the water meter begins to measure flow but at a much lower value than the actual flow.

The UFR works below the water meter's measuring threshold. The UFR regulates the water flow so that it flows in batches that can be measured by the meter. When the flow rate increases above the water meter's measuring threshold, the UFR remains permanently open, allowing full flow and maximum efficiency.

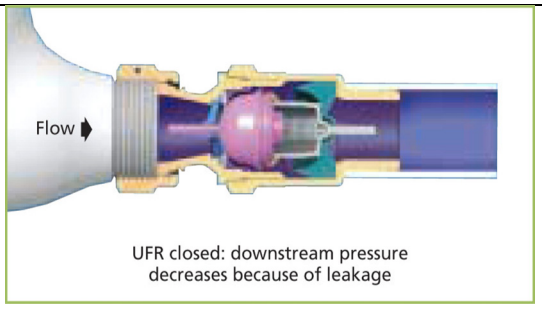
The UFR is a smart and simple product, installed on the water main (In-Line), adjacent to the water meter. The UFR controls the flow through the water meter so that it measures the water even at low flow rates.

When the downstream pressure drops below 0.4 bar of that of the upstream pressure, the UFR opens and allows for a flow rate above that of the measurement threshold. The free flow of water through the UFR equalizes the pressure across the UFR and allows it to close. The continuing low flow of water downstream to the UFR will make this operation repeat itself over and over again. Every time the UFR opens, a quantity of water passes through the water meter at a flow rate above the measurement threshold of the water meter and so the flow is measured.

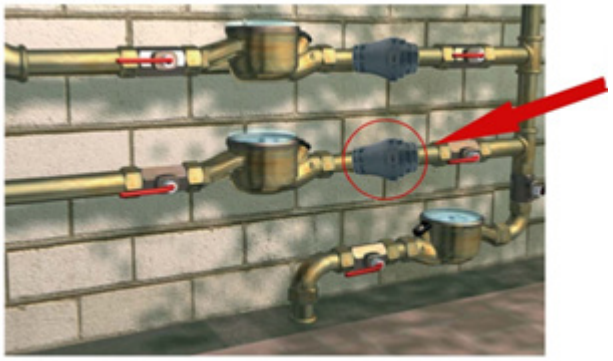
Note: Minimum water line pressure required for accurate readings is 1 bar; recommended minimum pressure is 1.5 bars.



UFR opens: downstream pressure equals that of upstream



UFR closed: downstream pressure decreases because of leakage



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