



EXPECT...SOLUTIONS NOT ONLY PRODUCTS

# UK WATER UTILITY TRIALS AVK SMART WASTE WATER AIR VALVES

## *AVK Smart Water Trials Commence*

A major water company is trialling AVK Smart Water's new smart waste water air valves at three locations across its region. AVK believes the smart waste water air valves are the first of their type to be installed in the UK.

AVK UK's Smart Water team has overseen the trials:

'Trapped air in water or waste water pipe systems can cause, or contribute to, a wide range of problems across the network. These problems include reducing the efficiency of the network; water hammer; leaks and, in extremis, bursts; pipe corrosion; and, disruption to the normal operation of other equipment'.

### **Data Relay**

AVK Smart Water's new smart waste water air valves use sensors within the valve to monitor its function and performance and, in particular, pressure fluctuations within the pipe. For the purposes of the trial, this data is relayed into the water company's SCADA (Supervisory Control and Data Acquisition) system via the mobile phone network.

### **Optimised Network**

A major deployment of the valves, however, could use a variety of communication channels to relay the data including radio networks. The installation of the smart waste water valves at the three locations has been a fascinating learning curve, technically and operationally, for both AVK and the water company. For example, the valves have already detected and reported a leaking flange on the network. AVK is currently working with the water company engineers to optimise the contribution of the valves to the management of the waste water network in those areas.

### **Smart Solutions**

The AVK Smart Water, waste water air valve is just one of a portfolio of smart water network products being launched by AVK during 2020. It places AVK Smart Water in the vanguard of companies developing solutions for water companies in this frontier technology.



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