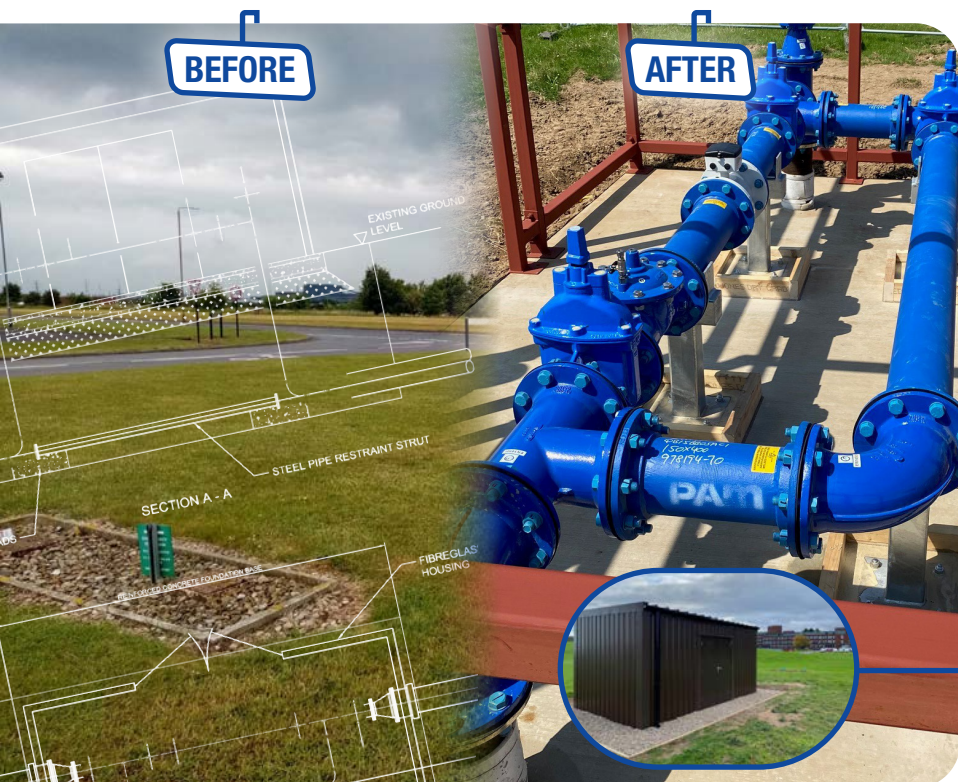




EXPECT SOLUTIONS...NOT ONLY PRODUCTS

# AVK SMART WATER SYSTEM SOLVES CHALLENGE AT MAJOR ENGINEERING SITE



Located between Redcar and Middlesbrough, the Wilton Science Park houses companies that work at the cutting edge of the life sciences, sustainable processing and manufacturing technology.

In 2019, a burst water main feeding the Park caused damage running into the hundreds of thousands of pounds. The resulting insurance investigations led to the Wilton Science Park's insurers insisting that a contingency shut-off valve be installed as part of the reinstatement works. A complicating factor, however, was that the Park's fire main was also fed by the same water supply and could not be compromised.

The chosen solution was to fit an AVK Series 879 diaphragm control valve fitted with VID1 flow and pressure sensors. The valve and sensors were, in turn, linked to an AVK UK Smart Water PMD (Pressure Management Device). The valve, sensors and PMD were located in an above-ground housing for ease of access and maintenance.



For further details on AVK Smart Water solutions please contact:

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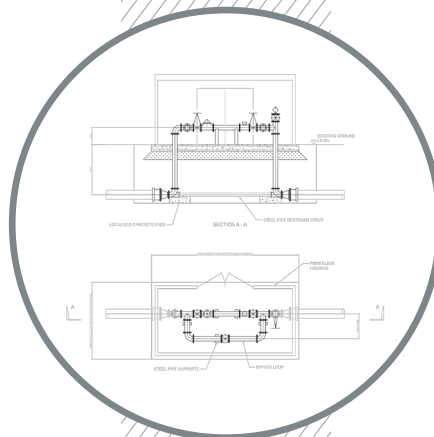




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## Instant Alerts

The PMD and VIDI sensors, *see image below*, send alerts to the Wilton Science Park's operations team when flow and pressure levels breach agreed levels. If there is a leak, the PMD can reduce pressure and alert the operations team who are able to close off the flow from their mobile phones or laptops. This is all achieved via remote communications to the valve. If changes in flow and pressure are due to a fire, the valve remains open.



## Leak Detection

The new arrangement has already shown its worth in normal working conditions. The VIDI sensor detected a change in flow indicating a possible leak on the network. The PMD reduced pressure which saved a significant amount of water whilst the leak was detected and remedial measures taken.

## Training and Support

AVK UK Smart Water was responsible for the planning, specification and commissioning of the new valve configuration. AVK UK Smart Water also delivered training to the Wilton Science Park's operations team to ensure they were able to get the most from the PMD and VIDI sensor technology.

**“**

**DAVID HURLEY IS DIRECTOR OF AVK UK SMART WATER:**

One of AVK's key promises is that our customers receive solutions to the challenges they face from us and not simply the supply of products. At the Wilton Science Park we delivered handsomely on this promise. We looked at the complex challenges faced by the Wilton Science Park, identified a solution, worked to deliver a design that was acceptable to all parties, and then implemented it. It was an immensely rewarding project to work on.

**”**



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