

RESIDENTIAL PIPELINE BENEFITS FROM **AVK UK** PRESSURE REDUCING CONTROL VALVE (PRV)

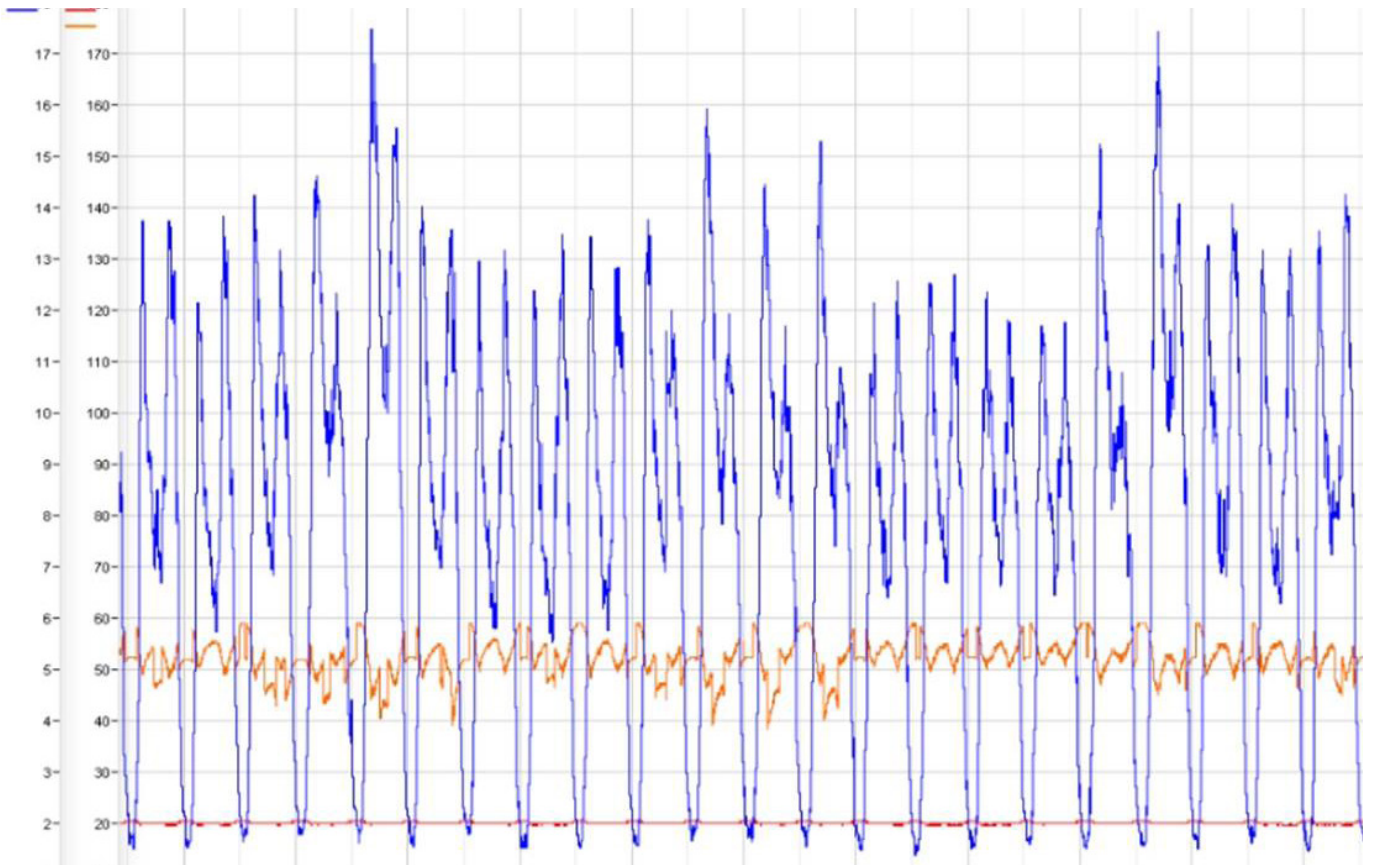
A water pipeline serving hundreds of residential properties received an upgrade when an AVK UK Pressure Reducing Valve (PRV) was installed to keep the system operating at peak efficiency.

During a routine meter replacement, the opportunity was taken to upgrade the former valve to AVK UK's series 879 diaphragm actuated PRV, which is assembled and tested at our specialist facility in Kilmarnock, Scotland.



The pressure variance for this section of the network was 5 bar to 2 bar, with a flow range of 2-17 litres per second. Following the valve replacement, the AVK UK PRV is maintaining this benchmark and has even improved readings from the critical point logger, bringing pressure variance down from 6 meters to 3 meters over the previous two months, which will aid in reducing leakage rates.

Anthony Whittam, Head of Smart Water and Pressure Management, said: "Data from before and after the installation show the new PRV is performing really well."



Metering graph showing excellent performance post installation.

Blue line is flow in litres per second ranging from 1-17

Orange line is PRV inlet (upstream) ranging from 48-60 meters (or 4.8-6bar)

Red line is PRV outlet (downstream) flat line controlling at 20 meters (or 2bar) this is very stable control as the line is not moving far from the setpoint.

“In particular, read outs from the critical point logger – the part of the District Metered Area (DMA) that would typically be most affected by changes in pressure on the line – show the valve is providing a better performance. When the pressure is consistent at the most vulnerable point in the network – such as the highest point – then the utility provider receives less DG2 complaints of low pressure.

“Based on the success of this valve, the customer has asked us to quote on two more valves and they will likely be employing more AVK UK control valves in future.

“In addition to providing high quality control valves, we also supply parts as needed. If a customer has an AVK UK valve installed on their network that requires a fix, they can pick up the phone and get a service kit the next day, and/or one of our dedicated service engineers can be on site the next day to support in the repair.”

To find out more about our Kilmarnock testing facility, or pressure management products and solutions, contact Anthony Whittam on email at, anwh@avkuk.co.uk, or call on 0771479581.