



AVK UK LIMITED SUPPLY DN800 RESILIENT SEATED GATE VALVES FOR DALMACOULTER RESILIENCE SCHEME

AVK UK Limited was awarded a contract for the provision of four DN800 Series 55 Resilient Seated Gate Valves along with nine DN900 Metal Seated Gate Valves by the Caledonia Water Alliance (Morrison Utility Services Limited and AECOM) on the Dalmacoultter Resilience Scheme for ultimate client Scottish Water.

The valves are the first of their kind ever to have been supplied on a UK scheme having only been available and supplied up to DN600 before this order. Discussions began early 2016, and the valves were delivered to site in October 2016. The Caledonia Water Alliance, formed by Morrison Utility Services Limited and AECOM, was named in 2014 as the preferred bidder to support the delivery of Scottish Water's water infrastructure element of its capital investment programme.

The contract included programme management, together with the design and construction of works associated with the water network across the whole of Scotland along with new assets, renewals, modifications, maintenance and refurbishment of water networks and pumping stations. The Dalmacoultter Resilience Scheme is for the construction of a 1000mm diameter HPPE pipeline approximately 6km in length running from Cumbernauld to Airdrie.

The pipeline is being constructed in duplication to the existing pre-stressed concrete pumping main to ensure the resilience of supply to 185,000 people.



Wilson McPhail, AVK UK Limited Business Manager for Scotland, explained why the DN800 Series 55 Resilient Seated Gate Valves were chosen for the scheme, "We had worked closely and collaborated with the Caledonia Water Team on the design requirements.

It was established that on two of the DN800 Gate Valves, there would not be enough headroom for the valves to sit in the vertical position. One of the key advantages of the AVK Series 55 Resilient Seated Gate Valve is that you can install them vertically or horizontally as standard without any modifications required to the valve. This allowed us to easily overcome this challenge whilst giving the customer the flexibility to install in either position."

The valves were manufactured at AVK's state of the art machining facility in Anhui, China. "The usage of the DN800 Series 55 not only solved the immediate challenge but also provided the client with other additional benefits. The AVK Series 55 Gate valves have a lower operating torque in comparison to a Metal Seated Gate Valve which is significant for the gearing or actuator size resulting in cost savings to the client, the valves are designed to be 100% drop tight which cannot be achieved in a metal seated valve. They are the optimum valves for this scheme." Wilson continued.

AVK UK Limited is continuously developing new products to meet the ever-increasing demand within the sector. Work is already underway for the development of DN900 and DN1000 diameter Series 55 Resilient Seated Gate Valves that should be available early 2018.

Wilson concluded, "Our development and manufacturing teams constantly liaise with market leaders to identify new ways of doing things and new products."

For further details on this scheme, please contact:

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TO COMPLIMENT OUR LARGE DIAMETER VALVE RANGE WE OFFER DISMANTLING JOINTS, UNIVERSAL STRAIGHT COUPLINGS, STEP COUPLINGS, FLANGE ADAPTORS AND TENSILE RESISTANT FLANGE ADAPTORS AND COUPLINGS



The AVK Series 265/30 and 265/50 Dismantling Joints:

- Available in size range DN300-2200.
- Longitudinal adjustment 60mm.
- PN16 drilling available as standard.
- Other drillings available to order.
- Blue fusion bonded epoxy coating.
- WRAS approved component materials.
- Coating complies to WIS 4-52-0.
- EPDM seals – BS681-1 as standard.
- Nuts and bolts coated to WIS 4-52-03.
- Emergency service available.

The AVK Series 258, 259 and 260 Couplings and Flange Adaptors:

- Available in size range DN350-1600.
- Manufactured to specified pipe OD.
- Sealing tolerance of +2/-5mm which offers flexibility on installation.
- 7mm sealing tolerance means product is quick and easy to install.
- WRAS approved component materials.
- Blue fusion bonded epoxy coating.
- EPDM seals as standard.
- Deflection (at each end):
 - DN350 – 600 4°
 - DN700 – 800 3°
 - DN900 – 1600 2°
- Coating complies to WIS 4-52-01.
- Nuts & bolts coated to WIS 4-52-03.
- Emergency service available.

Flange adaptor only

- PN16 drilling available as standard.
- Other drillings available to order.
- Cogged flange adaptor version to suit 'special' drillings. Adaptors can be notched.

The AVK Series 260/60 & 61, 258/60 and 258/6X Tensile Resistant Flange Adaptors and Couplings

- Available in size range DN350-1200 (Series 260/61 DN350-700, Series 260/61 DN800-1200).
- End restraint is obtained by individual grippers independently torqued.
- Full tensile (end-load) capabilities.
- When fitted on polyethylene pipe, heat blankets are not required offering cost savings on installations.
- EPDM seals as standard.
- Blue fusion bonded epoxy coating to WIS 4-52-01.
- Emergency service available.
- The range is capable of connecting majority of pipeline materials such as ABS, cast iron, ductile iron, epoxy coated steel, Polyethylene PE80 and PE100 and PVC.

Flange adaptor only

- PN16 drilling available as standard.
- Other drillings available to order.
- Cogged flange adaptor version to suit 'special' drillings. Adaptors can be notched.