

# Birmingham Resilience Case Study

## Location

Birmingham

## Project

To provide an alternative source of water to the city of Birmingham

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**The Challenge** – The Birmingham Resilience Project, currently one of the largest projects in the UK Water Industry is a scheme designed to provide an alternative source of water to the city of Birmingham. In addition to new tunnels on the existing Elan Valley Aqueduct, there is a new water extraction source taken from the River Severn just north of Stourbridge.

From the new river intake and pumping station at Lickhill the water will be pumped in excess of 30 bar through a new 25 kilometre long DN1000 pipeline to Frankley Water Treatment Works in Birmingham, which is itself has been upgraded to accommodate the new source of water.

Water utilities projects are set up in a complex way, with several layers of customers and they demand working in tandem with a number of other contractors/suppliers. Therefore the challenge for Utilities Valves (UV), who were awarded the Pipeline Valve Package in August 2017, was to support the needs of four different contracts working with varying contractors / suppliers.

## The solution

To satisfy the requirements of this project Utilities Valves supplied DN1000 UV Double Eccentric Butterfly Valves to provide pipeline isolation, plus smaller Gate Valves and Air Valves for numerous Washout and Air Valve assemblies.

Due to the pumping head being in excess of 31 bar, high valve pressure ratings were selected to safeguard pipeline transient pressures and satisfy stringent specification requirements. Valves supplied have pressure ratings of PN40, PN25 and PN16, higher than the average water utility requirements.

## The outcome

Delivery of the valves was completed January 2018 and satisfactorily commissioned.

