

# Hydra-Valve

## Sewerage

### Project Location: Mogden Sewage Treatment Works

### Customer: Thames Water

### Project Description

A number of knife valves at a London sewage treatment works were seized or failed to seat. An isolation was required to allow for a number of pump renewals which would require total isolation by the valves.

The valves were eight 300mm knife valves operated by actuators through a two to three meter spindle extension. The valves that did operate would 'trip' the actuators out before full travel was achieved.

Hydra-Valve personnel were called to see if we could solve the problem. A solution was proposed using a combination of the HVL-VR Valve Operation System and Valve Refurbishment under pressure.

Hydra-Valve personnel were mobilised and the valves were released and seated using various Hydra-Valve under pressure, zero isolation techniques, including the HVL-VR Valve Operation System, under pressure refurbishment techniques and actuator interrogation. Further recommendations for operation optimisation of the valves were provided and implemented.

Significant cost savings were provided, with no disruption to supply or risk to the assets and the surrounding area.

#### The risks eliminated included:

**Capital Risks**—which would have been incurred by commissioning this project using conventional means.

**Asset Risk**—The HVL-VR Valve Operation System is a Valve and Pipe Work Safe System.

**Health and Safety Risk**—The HVL-VR Valve Operation System is a safe and short operation even when compared to standard valve operation.

**Environmental Risk**—The HVL-VR Valve Operation System is carried out under pressure, without isolation removing the need to effect the local environment with large civil operations.

