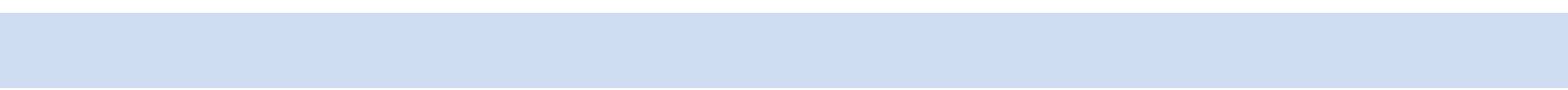




Where the solutions begin...





COST SAVINGS

The HVL Solutions team has a wealth of knowledge and experience in utilising and developing innovative techniques to provide cost effective solutions to valve and pipe line related problems in the Water, Gas, Power and Petrochemical Industries.

SUPPORT

HVL Solutions have the large range of services available to support the Oil, Gas and Water Industry companies to operate, maintain, assess and repair their network. Following information details the services we offer. These services are constantly being developed, ensuring that the group remains at the forefront of not only innovation, but also of risk & cost reduction.

[Know Your Network Valves play a critical role in the function of a network](#)

If a valve doesn't function properly then the networks capacity and efficiency is affected. Faults which might cause this include; partially open/closed valves (passing to 99% open—restricting flow), seized valves or damaged valves. Utilising HVL teams allows

for the management of valves in a network and by utilising our various techniques virtually all of the networks valves can be returned to a fully serviceable condition. If a valve is beyond repair then HVL can supply and install new assets at the most competitive prices. We have direct accounts with all major valve manufacturers. In order to maintain the serviceability of valves they should be operated and monitored on a regular basis. We can be employed to manage the assets in an entire network to ensure valve failures are reduced which in turn provides a greater level of service to your customers.



HVLSolutions

Where the solutions begin...



HVL-VR (Valve Release)

A valve operation system which allows our technicians to operate valves which are seized, difficult to operate, require seating or are suffering from differential pressure. These techniques allow for an almost risk free method of dealing with unserviceable valves, as opposed to the high risk methods of linear force generated by excessive torque, often delivered by technicians using large bars or actuators which are numb to the feeling of feedback from the valve when operating.



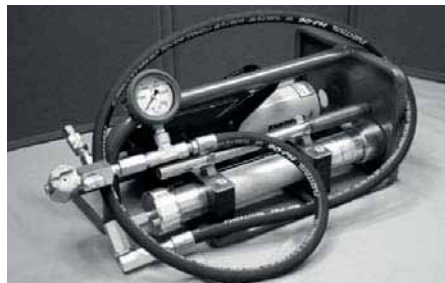
HVL-VP (Valve Packing)

The HVL procedure for under pressure valve re-packing which can be carried out without an excavation. This product is WRAS APPROVED and can be injected in to any size valve full seal. The HVL-RP is capable of injecting up to 10,000psi.



Valve Refurbishment

To avoid long isolation periods this is done in situ. So for example, if a valve which is unserviceable or is part of a maintenance programme, requires refurbishment our technicians can strip down a valve (without isolation in most cases) and carry out refurbishment to the internal parts as required. The valve is then reinstated with new parts as necessary (e.g. packing rope, seals, packing gland bolts).





Gear Box and Ancillary Parts – Refurbishment/Replacement

Due to the age of many valves, if certain ancillary parts including the gearbox fails, then a complete valve replacement is required as replacement parts may not be available. HVL Solutions has the capability to repair or re-manufacture these parts to avoid costly valve replacement. These parts may also include, spindle extensions, brackets, ladders, draw off tower cover plate assemblies, etc. . .



Reactive Burst Support Rapid Burst Stop

Stop Kit installed under pressure at up to 20 Bar. Installed within 4 minutes of installation technician contacting pipe.



Burst Prevention Pipe Wrapping, Pipe and Joint Failure and Corrosion Repair

Rapid pipe encapsulation without survey or lead time. Working pressure up to 20 Bar. Cure time 40 minutes. "WRAS approved"



Penstock Repair – Refurbishment

HVL Solutions are fully equipped to repair and/or recondition most makes, types and sizes of Penstock valves, using skills and experience acquired over many years.

- Savings in excess of 60% can be achieved compared to the cost of new valves;
- Delivery is possible very quick often in days, rather than weeks in waiting for new,
- Valuable time and cost can be saved instead of having plant shutdowns and removing;

HVL Solutions provide a valve repair and valve refurbishment for [Penstock](#), [Gate valves](#), [butterfly valves](#) plus many more.

Our clients demand quality, flexibility, availability and cost savings. We will meet these challenges as we have made valve repair and valve refurbishment our specialty, HVL have developed systems of operation to meet the high standards required by our customers. We will exhaust every avenue to provide clients with cost effective solutions to repair worn or damaged valves. However, for valves that are beyond economic repair we will be happy to provide costs to supply new replacements.



Repair Collars

Repair Units from 2" - 24". rapid off shelf stock repair collars. High pressure and installed under pressure. WRAS approved. The repair unit can seal corrosion holes, impact damage and longitudinal cracks.



Keel Cutter

Keel Cutters are an ideal method of cutting pipework when carrying out alterations and diversions - any instance where a circumferential cut is required on a pipe, even if it has been inserted or slip lined. When fitted on the main, minimum clearance is required to allow the blade to track around the pipe delivering a clean circumferential cut in minutes. The Keel Cutters can cut steel, cast iron, ductile iron, plastic, cement and other types of pipe up to 1200mm diameter. The Keel Cutter can also be used in preparation when welding by using a specialised bevelled angle blade



24" gas main following a flow stopping operation and use of the Keel Cutters



20" Gas main after the Keel Cutters has completed a circumferential cut carried out by a member of the Technical engineers.



22" Water main being cut with the Keel Cutter

Hot Tapping

HVL offer what is regarded by engineers, as one of the most efficient and cost effective means of pipeline isolation for maintenance programmes – hot tapping services from 2"-12".

HVL hot tapping field service works to a high degree of proficiency, and provide services on a 24 hour basis, nationwide.

What is Hot Tapping?

Hot Tapping or pressure tapping is the method of making a connection to existing pipelines or vessels while the existing system is under pressure. This method employs a drilling or tapping machine and a full bore valve and either a nozzle or a full encirclement fitting welded to the existing pressurised system.

Why use Hot Tapping?

- Service to consumers process industries and sensitive services is maintained.
- Contamination / loss of fluid does not occur.
- Toxic or harmful product is not released.
- No time wasted draining the systems.
- Personnel are used efficiently on effective repair.



Live Camera Inspections Entry

Our site implementation teams are qualified to utilise our camera systems, these are fully chlorinated and operated under live mains pressure into Potable water mains – Gate Valves.

The system includes a small camera attached to a control cable and seal arrangement, which can be inserted into a through a hot tap connections to inspect and determine the position of the gate. This system provides a live image to prove that the gate is fully open or closed.

[Live drill tap and scope on into 700mm gate valve to determine position of the gate:](#)



Gas-Oil, Valve Flushing and Greasing

Valve Lubrication & Sealing is a process of on-line valve lubricating and sealing solutions for jammed, passing or leaking valves in upstream and downstream oil and gas facilities. Any valve which has a lubrication/emergency sealing fitting can be serviced. A passing or seized valve can be effectively serviced on-line by the injection of formulated synthetic valve lubricants and sealants. The process is Flushing-Lubricating-Sealing of valves on-line. Our valve maintenance products are specially blended for the process to provide the following benefits:

- **Flushing:** A unique combination of liquid penetrate and non-chlorinated solvent, developed for valve cleaning to remove rusts, stubborn hydrocarbon deposits and old residues from the seal and spring areas of a valve without causing damages to elastomers or seals.
- **Lubricating:** Lubricates valves by providing a superior corrosion-inhibiting lubricant film that gives unsurpassed protection in extreme conditions, prevents metal-to-metal contact in moving parts and corrosion protection.
- **Sealing:** Seals leaks, provides extremely low friction coefficient, contains rust and corrosion inhibitors.
- **Repair Sealing:** This procedure is recommended for use on damaged valves. Formulated using synthetic resins, graphite and liquillon.



Civil Engineering & Excavations

HVL Solutions is involved in some of the largest water mains projects within the UK, with the skills and technical ability to provide excavations, pipe laying, kerb laying, block paving, backfill and all forms of reinstatement either within public highways or private ground. Throughout HVL Solutions history, we have been involved in some of the most critical main laying projects throughout the UK. Our team has the capability to carry out all aspects of excavations, main laying, from small to large. We can complete projects from design to build. We also have experience in building roads, footpaths, and car parks. With the dangerous nature of this work, all of our operatives ensure each job is thoroughly evaluated for any potential risk. Our internal compliance team works closely with all operational teams to ensure their authorisations meet clients' requirements, through regular assessments and quality of works audits. Our experienced team has completed jobs for most of the direct water companies within the UK. From city centres, villages to farms and public property, we have the right skill set to complete works to the highest standards – safety and quality remain at the forefront of our business.

**OUR SERVICES
INCLUDE:**

Mains Laying

Electric-Butt Fusion

Chamber
Construction

Concrete Laying

Kerb Laying

Block Paving

Retaining Walls

Road Construction

Car Parks

Reinstatement



HVL Solutions are members of the following groups



BRITISH WATER



nationalgrid
THE POWER OF ACTION





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