

The Complete Valve and Pipeline Service to all Industries



Group of Companies

Reduce Risk, Reduce Cost, Reduce Your Carbon Foot Print

Hydra-Valve

Power Pipeline Technology



At **Hydra-Valve** we pride ourselves on our quality of service and ability to meet the needs of our customers. As the requirements of regulators and financial constraints become more stringent the continuous development of innovative techniques to meet these requirements is brought further into the forefront. Hydra-Valve continues to develop such techniques which bring with them huge benefits.

The Hydra-Valve Team

Our specialist, self sufficient and mobile teams provide on-site support for all your valve, pipeline, hydraulic and surveying needs. The extensive capabilities of the teams allow for quick and cost effective responses to all scenarios. Our teams are highly trained and experienced.

New Services

The Hydra-Valve Group of Companies has been further strengthened by the addition of;



Merlin Precision is a precision engineering and tool making company. With over 30 years engineering experience Merlin design and manufacture components for almost any precision engineering project, including emergency pace, with services including **CNC milling & turning, jigs and fixtures, press & mould tools, prototype work and general fabrication.**



The group has been strengthened recently with the addition of a dedicated asset survey division. Sub Surface Vision specialize in **GPR, Sonar, Ultrasound, and full topographical surveys.**



Industrial Fasteners has been formed to further our range of services to the utilities sector. We hold a comprehensive stock of **STAINLESS STEEL, SHERAPLEX, GALVANISED, SHERADISED, ZINC PLATED** fasteners in all head and thread forms.



Power has been solving no shutdown piping problems since 1996. Power manufacture Hot Tapping equipment, Line Stopping equipment (stoppling) and bespoke fittings and equipment.

Our services include:

Pipe Freezing, Pipe Freezing services, Hot Tapping services, Line Stopping, Inline valves installed under pressure, Coupon Samples, Line Testing, Hydraulic Flow Dynamics, Butt Fusion, Pipe Laying Service, Data Logging, Valve Detection and Mapping, Cold Cutting, Cold tapping, Bolt Tensioning and Valve Turning Services.

Power's products, equipment and field services are designed to keep pipeline systems on stream and to prevent shutdowns. Power designs to domestic and foreign codes/standards and our quality control system assures the highest industry requirements are met and maintained through our ISO 9001/14001 procedures.

Power's design team have engineered pipeline products beyond our normal field applications including balanced pressure tapping with up to 153 Bar (2220psi) working and line stopping (stoppling) equipment up to CL900 working. Power also offers on-site welding facilities, fully coded pipeline welders and a full turn key operation.

We have worldwide coverage with service centres in the UK, Middle East and Africa; manufacturing centres in the UK, Saudi Arabia and South Africa and service partners in South and North America.

Problem solving has become a major part of our workload and the flexibility of Power's organisation enables rapid response to "one off" situations.

Power is on call 24 hours a day, 365 days a year. Our response time is based upon your needs.

Get connected to Power - Our products and services work best **UNDER PRESSURE.**



RICHARDS Valves Europe Ltd is an independent business based and registered in the UK to serve, supply and support all European customers of RICHARDS Manufacturing (Sin) Pte Ltd.

RICHARDS is a highly successful company with a wide range of quality industrial valves and associated products. Our range includes iron and steel valves and high quality fittings, all produced to ISO / BS / DIN / API standards. We supply worldwide into the WATER, MARINE, OIL & GAS and PETRO-CHEMICAL industries.



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Group Formation

Since 2011 the company's services have been further strengthened with the formation of the group of companies, consisting of **Hydra-Valve Advanced Valve and Pipeline Solutions Ltd, Power Pipeline Technology, Merlin Precision Engineering, Sub Surface Vision, Industrial Fasteners, and Richards Valves.**

With this group a total service for valve and pipeline solutions is now available giving truly innovative services to the Oil, Gas and Water Industries.



Member



Best Practice Approved Service Provider



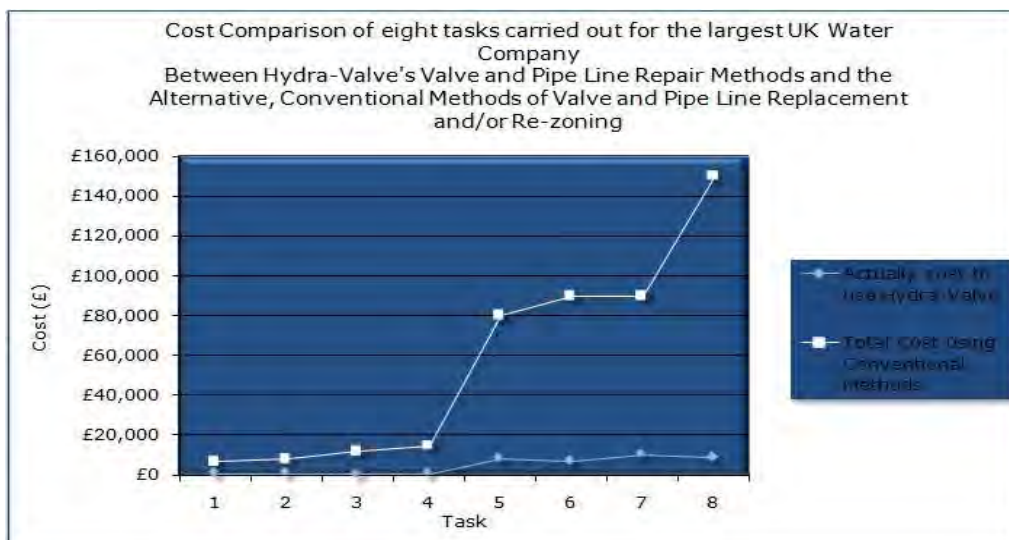
Hydra-Valve Power Pipeline Technology

COST SAVINGS

The Hydra-Valve and Power Pipeline Technology 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.

Our methods mean typical cost savings of around 92% when compared to conventional methods of working.

This cost saving figure was provided to us by the largest water company in the UK. Data was taken from actual activities carried out utilising our innovative techniques. The tasks, randomly selected, included work on varying types of valves, from the very large to the very small and in all different applications.



Risk Reduction

Each company assists the group with its own methods of reducing risk to network assets, personnel, customers, the environment and financially. With the formation of the group these risk reduction benefits are further enhanced by the understanding of the total service.

With each company complementing the other, a full understanding of the risks involved in any application is possible and further risk elimination or reduction is achieved.

An example of this would be that a line stopping operation might be requested by a customer to allow for the repair or removal of an asset. Bypassing operations may be required to maintain supply requiring a large area to become part of a site. The surveying team would be able to survey this and propose that the asset is refurbished under pressure by Hydra-Valve without the need for a heavily intrusive operation.

Equally, an under pressure refurbishment operation may be taking place and as part of the risk assessment the Hydra-Valve personnel could request the support of Power Technology to provide a line stopping service to ensure the safety of the operation whilst still maintaining supply. In addition to this it could be that asset refurbishment may not be possible. In this instance Power Technology would be requested to insert new, fully functional valves into the system, under pressure, without affecting supply.

Hydra-Valve Power Pipeline Technology

Hydra-Valve and Power Pipeline Technology have the largest 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.

Utility Network Mapping

Hydra-Valve and Power Pipeline Technology can deploy teams of Utility Surveying Engineers to carry out detailed below ground surveys of areas where there is uncertainty regarding the location of assets. These teams come equipped with an array of advanced utility surveying equipment and can rapidly adjust to cope with changes to the original perception of what is present.

Ground Penetrating Radar

Our teams are equipped with the latest innovative system giving on-site computer aided interpretation for accurate and immediate verification of asset locations. The system can identify all types of pipe work and with its sophisticated computer aided interpretation system on-site personnel can view assets in plan view and determine their depth.



Radio Detection Equipment, Sondes and Global Positioning Systems



Utilising the latest in radio detection equipment, Hydra-Valve and Power Teams can accurately plot the location of pipe work without the need to be stood over the pipe. This allows for the tracking of pipe work in the road from the path.



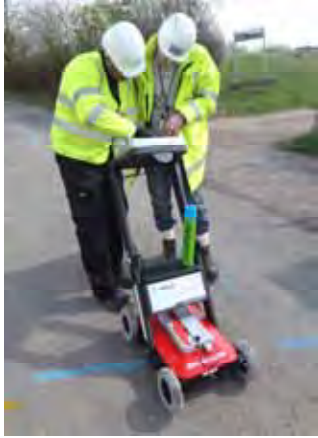
When used in conjunction with a Sonde the system can conclusively trace the route of pipe work without questioning the validity of the data received. Attach the Sonde to a camera and the Hydra-Valve or Power Technology Technician can see the inside of the pipe whilst tracking it in real time. Whilst the survey is taking place the technician can use global positioning devices to plot the position of the pipe within an accuracy of 20mm.



Hydra-Valve

Power Pipeline Technology

Excavations



Before excavations commence, extensive survey & mapping takes place, using the very latest state-of-the-art equipment to fully understand what lies below the surface. This quickly identifies services including, Water, Gas, Drainage services, HV & LV cables, BT (telecom) cables, Optic Fibre, Cavities & Voids, Sub-Surface Composite or any other detail. This is paramount to the safety of any excavation in order to avoid fatalities or injury. Strikes on services, prove to be very costly & generate massive customer complaints, for the identification of lost assets and to avoid disruption to other services and to avoid a loss of Client Confidence. For this reason we have invested heavily into a brand new Service Delivery Department, "Sub Surface Vision". Our goal for this department is to deliver the very highest quality service available in the UK & World-Wide.

Our equipment includes, Ground Penetrating Radar, Electro-Magnetic Locating Equipment, GPS location reporting, Collection & Storage of Service data and full map CAD production facilities to any size, including A0 & A1. All survey results are guaranteed



Commencing the excavation after a full survey means confidence of never striking services below ground even in the most complicated of areas when numerous services cross our intended target location. We aim to provide the maximum customer confidence possible.

Massively complicated excavations safely avoiding every possible service are made easy because of our highly trained and uniquely qualified engineers/technicians using this state-of-the-art equipment



The laying of a brand new mains pipeline, insertion of two new control valves and a major pipeline repair, all successfully completed through an array of other services while leaving the water supply, "Always On", not one single customer lost a single drop of their water supply.



Hydra-Valve Power Pipeline Technology

Excavations continued...



Complicated Line-Stop & full By-Pass technology providing “Always-On” supplies are made easy with our excavation services.

Full length trenching & pipe laying services are made easy due to the experience of our surveying department



Safety is paramount to the successful completion of any project. Here we see a deep excavation fully shored to prevent washout, or cave-in of the chamber. This is particularly important on “Burst Repairs” where high pressure water/gas/oil erodes & weakens surrounding ground making the working environment extremely dangerous. Our procedures eradicate “ALL” risks associated with these projects.

After the successful completion of a major “Emergency” pipeline repair, we see the safe backfilling of the excavation using only the highest quality material.



Re-building of valve boxes & even major valve houses is all part of the service we provide

Hydra-Valve Power Pipeline Technology

Excavations continued...



Reinstating a major project to the highest standards, finalises the procedure.

The re-laying of private roads, pathways & drives is all necessary when the project runs on private property or land



Every possible control measure is put in place by our expert teams before the commencement of any excavation procedure. Full reporting, risk assessments & methodology statements are generated for approval by the client before any working procedure begins.

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Pipe Condition Assessment

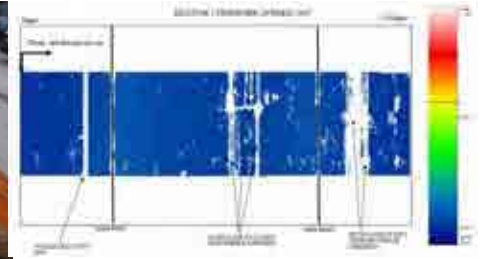
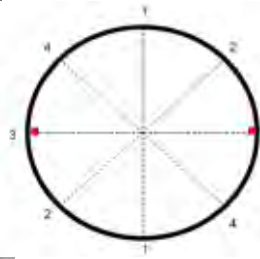
Long Range Ultra Sonics

Internal and External Corrosion Data achieved over long distance without insertion into pipe line. Can be used in small excavations to assess subterranean pipe work without excavating the whole pipe or in large plants to assess pipe line condition quickly.



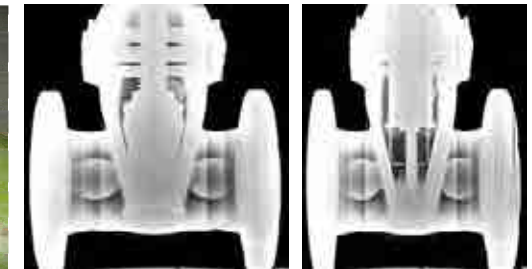
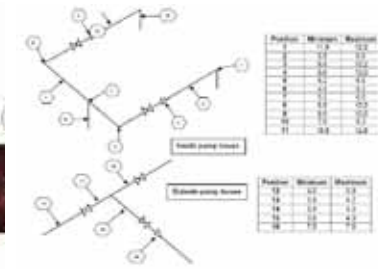
Detailed Pipe Condition Assessment

Complete analysis of extracted pipe samples to determine remaining life, corrosion damage/presence, material specification and properties.



On-site Pipe Work and Asset Non Destructive Surveys

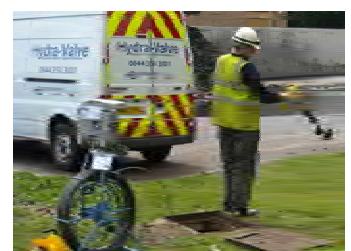
On-site corrosion damage assessment, pipe work integrity inspections, pipe work and asset x-raying.



Pipe Line and Chamber Camera Surveying



Using a range of advanced devices, crawler and submersible surveys are available with pipe surveys possible up to 1km in one insertion. 10km will also be achievable.



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Burst Prevention

Pipe Wrapping, Pipe and Joint Failure and Corrosion Repair

Rapid pipe encapsulation without survey or lead time. Working pressure up to 100 Bar. Cure time 30 minutes. WRAS approved.



Reactive Burst Support

Isolation Support

Valve Operation, Assessment, Release, Seating, Component Reverse Engineering and Rapid Remanufacture under pressure, without isolation and often without excavation.



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Reactive Burst Support

Rapid Burst Stop

Stop Kit installed under pressure at up to 80 Bar. Installed within 4 minutes of installation technician contacting pipe.



Line-Stopping

Line-stopping can be performed on many types of piping materials and for a variety of media such as gas, water, sewage and oil.

Why use line-stopping?

- Service to consumers, process industries and sensitive services is maintained
- Contamination and/or loss of fluid or gas does not occur
- Toxic or harmful product is not released
- Fire protection not affected
- No time wasted draining the systems
- Personnel are used efficiently on effecting repair
- Eliminates need for bulk transfer and storage of harmful fluids

Consider this against the cost of a shut down:-

- Planning and co-ordination of shut down – meetings, schedules, paperwork
- Notification of consumers or process plant personnel
- Compensation to customers, loss of goodwill
- Lost production and therefore profit in process industry
- Direct labour cost – locate and activate valves
- Overtime rates for working at "low demand times" normally nights and weekends
- Drainage, purging and refilling of pipelines
- Disruption to road work systems by road closures

By utilising Power's under-pressure techniques, work can be performed allowing alteration, relocation, extension, addition, repair, replacement, maintenance, or abandonment of pipe work without shutdown or interruption of service to critical processes or consumers.



Hydra-Valve

Power Pipeline Technology

Power Valve

A new development to the Oil, Gas and Water Industries, the Power Valve allows for the insertion of a fully functional valve to a pipe line under full pressure.

The valve (rated to 16 Bar) is then capable of being operated with standard valve operating devices.

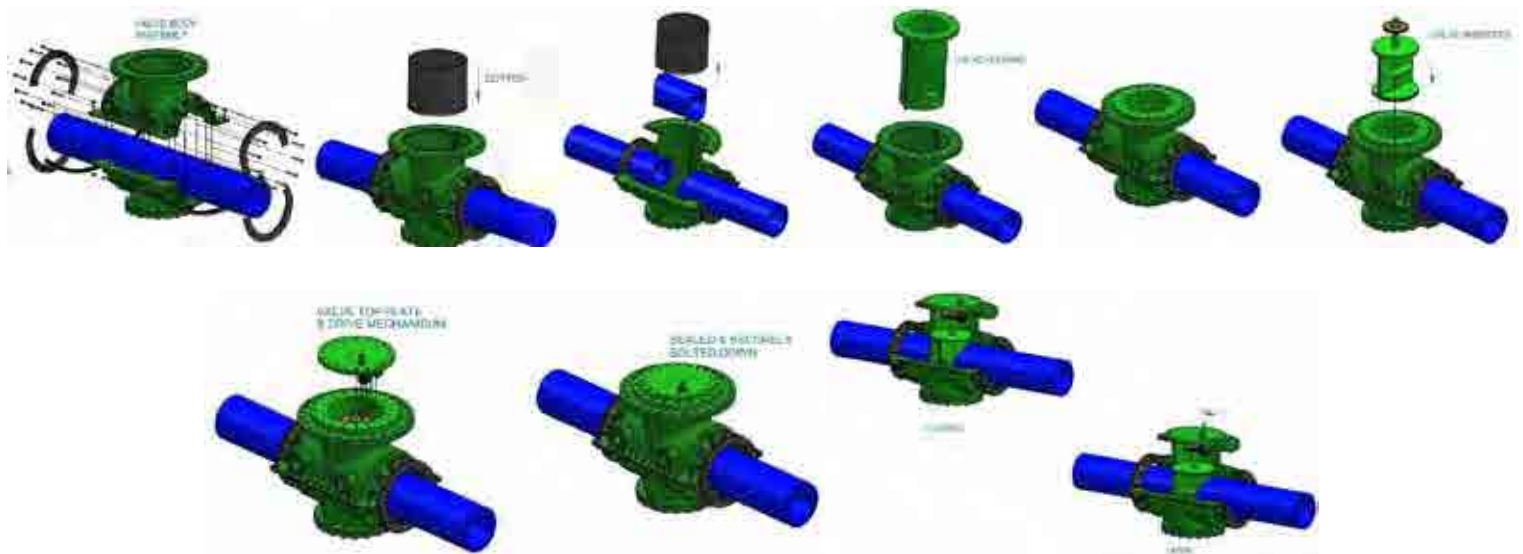


The conventional system is both costly and time consuming. Firstly, five excavations will be required. Two further excavations are made either side of the location where the valve is to be installed. A bypass pipe is then installed between these locations by a drill and tap operation for tapping into the pipe to form two T-junctions. The first two excavations may be around 14m apart.

Two further excavations are made closer to the location for the valve, for example, about 8m apart. The flow is interrupted at these locations by inserting a line stopping element. The final excavation is then at the desired location and the pipe can be worked on with no water flow present, for example, by cutting out a section of pipe and fitting a valve in place of the removed pipe work.

The flow is then restored and the temporary bypass removed, with the branch of each of the T-junctions shut off.

Compared to this conventional system it becomes clear what advantages the Power Valve gives in terms of both cost and time. The patented Power Valve system provides a much needed improved process for installing a valve in a pipe run carrying a flow of fluid



Hydra-Valve

Power Pipeline Technology

Hot Tapping

Power Technology offers what is considered by engineers to be one of the most efficient and cost effective means of pipeline isolation for maintenance programmes - hot tapping services. Power Pipeline Technology's hot tapping field service works to a high degree of proficiency, and provide services on a 24 hour basis, nationwide.

The hot tapping procedure pictured on the right is a 48" under pressure connection onto a 48" spiral wound steel pipe. The fitting was 48x48x48 full encirclement, fully welded. The tapping machine used was the 96100 and the pipeline pressure was at 35bar. Sizes range from 1/2" to 96" diameter

Why use Hot-Tapping?

- Service to consumers is maintained.
- Contamination/loss of fluid does not occur.
- Toxic or harmful product is not released.
- Fire protections are not affected.
- No time wasted draining the systems.
- Personnel are used efficiently on effecting repair.
- Eliminates need for bulk transfer and storage of harmful fluids.
- By utilising Power's hot tapping operations work can be performed allowing alteration, relocation, extension, addition, repair, replacement, maintenance, or abandonment of pipe work without shutdown or interruption of service to critical processes or consumers.



Hot Tapping around congested pipe work

Save-a-Valve fitting

As more service pipes are laid in the ground, the problem of making hot taps becomes increasingly difficult when the hot-tap machine cannot fit around the maze of utility services. The Save-a-Valve has been designed to be used in areas where congestion of pipe work does not allow a conventional hot tap to be completed.

Making a hot tap or branch connection in the desired trajectory without the need for shut down is possible with this fitting. Incorporated in the vertical neck of the Save-a-Valve is an integral branch which can be manufactured to any height or angle to bypass an obstruction. The vertical neck can be plugged using a temporary valve, allowing the hot tap to be made in any area without disruption to supply or re-routing of existing pipe work.

Once the hot tap is completed, the vertical neck is plugged and the temporary valve removed. The new supply is connected to the control valve on the integral branch and the project is complete. Alternatively, the new pipe work can be connected to the integral branch flange, thus eliminating the need for any valve in this hot tapping operation.

Manufactured from high grade stainless steel to a working pressure of 150 psi, tested to 220.5 psi, this valve will prove a versatile and money saving addition to any inventory.



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Cold Cutting

Cold Pipe Cutting is one of the safest systems available. It is accurate, flexible, versatile and produces little waste. Involving little or no downtime it offers major cost reductions. Power has equipment that consists of travel L cutters, split frames and guillotine saws in sizes from 4" through to 60" diameter.



Pipe Freezing

We offer what is considered by Engineers to be one of the most efficient and cost effective means of pipeline isolation for maintenance programmes. Power Pipeline Technology works to a high degree of proficiency, and provides services on a 24 hour basis, nationwide.

Professional Approach

Fast, reliable, 'highly cost-effective' – these are the widely acknowledged benefits of pipe freezing.

Power Technology offers:

- Contract and pipe freezing skills
- Approved equipment and instrumentation
- Full contract report
- Pipe freezing studies/on site evaluation
- Proven record of contract success
- Specialist pipe freezing consultancy

Why use Pipe Freezing?

- Service to consumers process industries and sensitive services is maintained.
- Contamination/loss of fluid does not occur.
- Toxic or harmful product is not released.
- Fire protection – sprinkler systems, hydrants, etc. are not affected.
- No time wasted draining the systems.
- Personnel are used efficiently on effecting repair.
- Eliminates need for bulk transfer and storage of harmful fluids.



By utilising Power's techniques work can be performed allowing alteration, relocation, extension, addition, repair, replacement, maintenance, or abandonment of pipe work without shutdown or interruption of service to critical processes or consumers.

Hydra-Valve Power Pipeline Technology

Joint Repair

Lead Joint Repair. Joint and Pipe Stabilisation. Accommodates unusual angles. Complete and under pressure in most circumstances.



Encapsulation

Rapid manufacture and off the shelf stock items. High pressure and installed under pressure. WRAS approved resin filled to prevent stagnated water entering the pipe line from the encapsulation when system pressure reduces.



Hydra-Valve Power Pipeline Technology

Tank Tapping

Power Pipeline Technology offers a Tank/Sump/Reservoir tapping service. We can drill through all major tank walls with reinforcing bars in place and under pressure. Wall thickness from 200mm through 1100mm in any size.



Manufacturing Division

Hot tapping machine manufacture - Hot tapping machines, tapping machines, line stop equipment manufacture, stoppling equipment manufacture.

Production and manufacture of:

- **Hot Tapping equipment manufacture from 1/2" to 96"**
- **Line Stop equipment, stoppling equipment including Power stop 1/2" to 60"**
- **Line stop and Hot Tap fittings, high and low pressure**
- **Off tees and mufflers for all pressures**
- **Sandwich valves**

Hydra-Valve and Power Pipeline Technology can also offer full rolling services from 1mm to 25 mm plate to 4 metre diameter tubing, the fabrication and machining shop is fully equipped with vertical and horizontal borers and up to date CNC lathes and milling machines and laser profiling.



Hydra-Valve Power Pipeline Technology

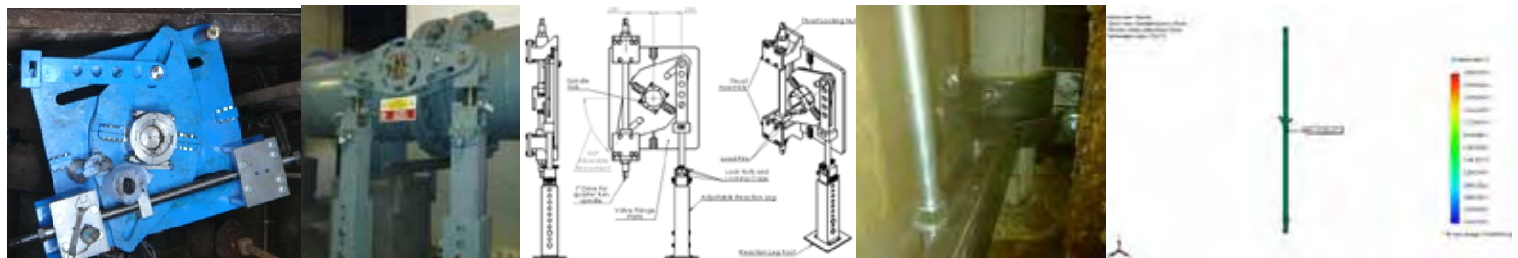
Hydraulic Systems and Actuation

Hydra-Valve & Power have in house design, manufacturing, installation, assessment, maintenance and rectification service for all utility hydraulic system requirements. Numerous benefits are gained by utilising hydraulic systems over other systems. This includes risk reduction, submersible operation, multiple back up system for emergency situations accurate positioning feed back for actuator systems, solar power and wind powered operation and cost reduction.



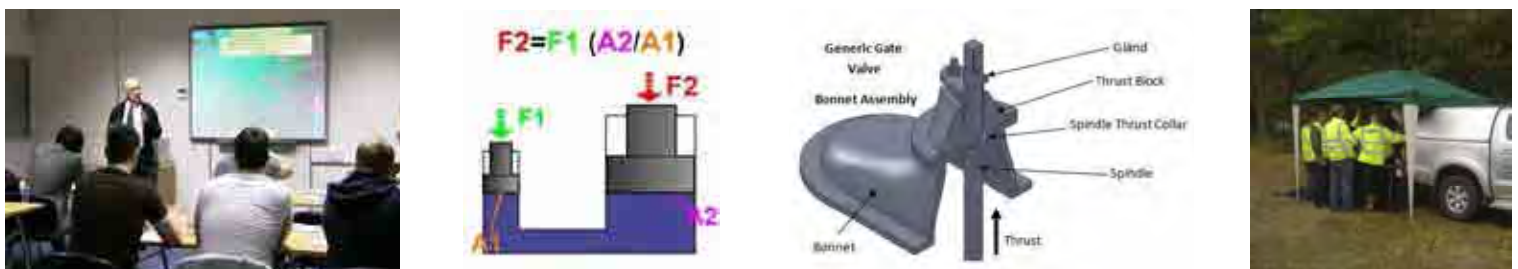
Valve Locking and Stabilisation

The HVL-L System of Valve Locking and Stabilisation removes the risk of spindle ejection or rotational movement when working in or around a valve when there is a risk of the thrust retention component failing or it is to be removed



Training - Hydraulics and Valves

Hydra-Valve can offer training programs tailored to your companies individual needs. This maybe to allow you to meet the needs of regulators or heath, safety and environment requirements.



Hydra-Valve

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WRAS Approved Chamber Sealing

Hydra Valve have developed a unique and proven chamber sealing method that provides an impervious seal, lasting for 50 years. This sealing system provides the following benefits to clients,

- Protects equipment from flooding/immersion – eliminates equipment failures (electrical/telemetry etc)
- Avoids potential Pollution of water courses – keeps 'dirty' water inside chambers
- Impervious to water for up to 50 years – no maintenance
- Minimal Chamber preparation - Easy to apply
- WRAS approved coating
- Quick to apply - economic advantages
- Works on brick and concrete substrates
- Asbestos lined buildings can be lined – economic and H&S benefits
- Some structural rigidity can extend life of degraded Concrete reservoir roofs/walls
- Suitable for Clean, Raw and Sewage applications
- Meets OFWAT's criteria for innovative solutions

The applications for this coating are typically chambers prone to leakage, in or out, on Water or Sewage applications, within works, or across the road network and country side. Thousands of these chambers are now over 30 years old, most are not sealed, leading to water seeping or flowing into the chamber, flooding assets, and damaging high value equipment such as electric actuators, pumps, valves, sensors and telemetry equipment. Can also provide integrity/structural strengthening.

The coating system patented by Hydra-Valve will provide a triple permanent barrier, even to pressurised leakages. The WRAS approved resin is injected under pressure around the outside of the chamber, forming the outer 'Shell', then the inside walls are injected directly into the cavity and the floor & ceiling are coated providing a third robust and impervious barrier.

This system will also seal wet wells, and keep chlorinated water or sewage inside a chamber – avoiding costly contamination of water courses, woodlands & Environment Agency pollution incidents.

Due to the impervious & hermetic seal, this system can also be applied to buildings that may have asbestos used in construction. A coating applied on the inside of a building will isolate potential Asbestos hazards, and avoid the H&S hazard for employees. Comparative methods of asbestos removal are significantly more expensive and time consuming.



Hydra-Valve Power Pipeline Technology

Emergency Burst Repair from start to finish

*One Solution - One Supplier - One Cost – **Zero loss of Supply***

The Hydra-Valve Group has the ability to resolve a major burst or fracture, from start to finish, including all survey mapping, leak detection, excavation, valve and pipe supply, line stop, bypass, repair and reinstatement. **The benefits include:**

- **Water supply 'always on'**
- **Customers never lose supply or suffer water discoloration (DG3) or suffer from low pressure delivery (DG2)**
- **One supplier – One cost (making it easier to budget) – One team provides reduction in carbon emission**
- **Economic and cost saving**
- **Emergency pace repair/reinstatement – immediate mobilisation**
- **One Phone call - convenience and peace of mind**
- **Fully capable & experienced network, pipeline, & valve Engineers always on hand**

The unique combination of skills, knowledge and experience within the Hydra-Valve group provides all utilities with THE 'Burst repair service' that is unavailable from any other supplier. The tools and techniques used ensure there is no disruption to the customers water supply and that all of our works are carried out by our highly trained Hydra-Valve Engineers.

From identification of a trunk main problem – one phone call will mobilise a team that will survey & map, locate leak, excavate, shore up, bypass, Line stop, Rapid pipe/valve repair or replacement, reinstate & re-pressurise the pipe. All work will be carried out under pressure, with no loss of supply to the customers.

We boast the largest in-house design, manufacture and test facility in the UK, all offering a true 24/7/365 solution to our clients.

Hydra Valve have over 20 years' experience in the industry covering valve release to full pipe encapsulations, & pipeline replacement, and from leak stops to line stopping and are the only company to offer this complete service to the Utilities and 'tier one' contactors for emergency response solutions.



Hydra-Valve Power Pipeline Technology



Valve Supply

The team at RICHARDS Valves Europe has extensive experience within the UK and European valve industry, supplying manual and actuated valves into the water, marine, oil & gas and petro-chemical industries. We can provide high quality products at highly competitive prices. Our products are supplied with all appropriate documentation and a technical support service that is second to none.

RICHARDS valves and valve products are designed and manufactured in accordance with various international standards. Adopting the latest in Design and Manufacturing techniques and technologies, all products are manufactured using high quality materials and workmanship. Additionally, RICHARDS valves and valve products are manufactured in strict compliance with European standards, including ISO9001:2008, BS, DIN, and carry WRAS approval where required.

We can supply anything from a single, manual gate valve up to a complete scheme of actuated valves. We can deal with anything from a single order to a Utility Framework Agreement.

Please contact us with your application and put us to the test!



Hydra-Valve

Power Pipeline Technology



Our Range of products can be divided up according to the main industries we supply:

WATER: IRON VALVES

Resilient Seated Service Gate Valves, Resilient Seated Rising Spindle Gate Valve, Resilient Seated Non Rising Spindle Gate Valve, Metal Seated Service Gate Valve, Metal Seated Non Rising Spindle Gate Valve, Metal Seated Non Rising Spindle Gate Valve with Bypass or Gear-box, Metal Seated Rising Spindle Gate Valve, Resilient Seated Centreline Butterfly Valve with Bare Shaft/ Lever/ Gearbox, Resilient Seated Double Eccentric Butterfly valve with Bare Shaft/ Lever/ Gearbox, Metal Seated Double Eccentric Butterfly Valve with Bare Shaft / Lever / Gearbox, Resilient Seated Rubber Flap Check Valve, Metal Seated Non Slam Check valve, Resilient Seated Underground Fire Hydrant.



WATER: BRASS VALVES

Brass Service Gate Valve, Brass Gate Valve, Brass Globe Valve, Brass Ball Valve, Brass Vertical Check Valve, Brass Swing Check Valve, Brass Strainer.

OIL AND GAS: STEEL VALVES

Steel Service Gate Valves, Steel Non rising Spindle Gate Valve, Steel Rising Spindle Gate Valve, steel Gate Valve with Actuator, Steel Globe Valve, Steel Check Valve, Steel Water type Check Valve, Steel Butterfly Valve, Steel Ball Valve.

Hydra-Valve Power Pipeline Technology

Due to our unique methods, when a company employs the services of the Hydra-Valve and Power Technology Group they are making a statement that as well as using more cost effective techniques they are also using more environmentally friendly methods. Calculations using the EA's Carbon Calculator mean an average reduction of 0.3 tonnes of CO₂ per single valve replacement. Even on a small DN100 (4") the reduction is 97%.

This fulfils the requirements of ISO 14001 for meeting the objectives of a company to reduce its carbon footprint.

Our techniques produce significantly lower emissions and reduce environmental impact when compared against traditional methods of valve replacement or network expansion to accommodate for unserviceable valves.

All our processes and technologies aim to be completed with reduced impact on the environment when compared with conventional methods, thus achieving the following;

- **Zero excavations**
- **No traffic disruption creating unnecessary vehicle emissions**
- **Reduced or zero emissions through the reduced or eliminated requirement for motorised plant**
- **Reduced scale & cost of projects**
- **Reduced waste and no hazardous waste**
- **The use of sustainable energy**



Contact us

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