Since its formation in 1982, Invicta Valves Limited has established an enviable track record of successfully delivering innovative, customer focussed and value-added Site Solutions to the UK Water Industry.

Our vision is to be “The preferred design, installation and service provider in the UK Water Industry for valves, penstocks and associated products”.

From our roots as an independent valve and actuator stockist/distributor to becoming a proud and valued member of the globally renowned AVK Group, we have built a reputation of ‘listening to’ and ‘hearing’ what our customer’s requirements are, before delivering them to the highest quality of workmanship and customer service and, always to their full satisfaction.

We offer a complete range of site support services that provide value added solutions encompassing:-

- Penstock Supply and Installation
- Valve Repair, Refurbishment and Replacement
- Valve Supply and Installation

We provide all customer’s needs ranging from inspection, site surveys, design, supply, installation, commissioning and maintenance. We even provide supplementary electrical and small civil engineering installation services when required.

We have a wealth of experience and success in giving our customers a wide range of benefits including:-

- Considerable Cost Savings
- Minimal Plant Shutdown
- Reduced Site Programmes
- Long Term Solutions
- Guaranteed Quality of Workmanship
- Extended Warranties

Our Site Engineers and support personnel are amongst the best in the UK Water Industry, highly skilled, experienced and qualified – their safety and that of all stakeholders is of paramount importance on our projects and as such, all site personnel receive relevant training, certification and safety passports, including confined space.

Strongly supported by our Parent Company, AVK Group, we are able to offer our customers the added value of an extensive range of high quality products made at multiple UK manufacturing sites and readily available from a national distribution centre.

Our strong links with fellow subsidiary, Glenfield Valves Limited, enable us to extend our site solutions into the Dams, Reservoirs and Hydro sectors, where they have been established for more than 100 years.

Our vision is unwavering and all staff at Invicta Valves Limited are committed to its successful delivery.
Our Site Solutions offering delivers a bespoke service that we believe will provide our clients with a comprehensive ‘one-stop shop’ approach to their projects.

We aim to provide an extensive solution based package designed to combat the challenges that our UK Water Industry clients face on a daily basis. From feasibility and life-time maintenance and from inception to completion, we can provide you with a service that offers best practice, cost efficiency and longevity no matter where you are in the UK.

Our highly skilled, knowledgeable and qualified site personnel have a wealth of experience in delivering a diverse range of bespoke solutions from innovative design concepts to managing complex installation programmes and we will have the right solution for you.

We install all makes of ‘free-issue’ valves and penstocks, but also offer a complete design, supply and installation package if required, having full access to AVK Group’s extensive range of high quality products that can be delivered anywhere in the UK from their national distribution centre.

The Site Solutions Service Offering Includes:
• Valve, Penstock and Actuator – Site Surveys and Health Checks
• Valve, Penstock and Actuator – Supply, Installation, Refurbishment and Replacement
• Design and Manufacture of Ancillary Equipment
• All Associated Enabling, Electrical and Civil Engineering Services
• Equipment Commissioning
• Scheduled Maintenance and Servicing Contracts
• Extended Warranties
• Post Contract Training
• UK Coverage

We offer national coverage with premises at Maidstone, Warrington and Prestwick.

...Considerable Cost Savings
Invicta Valves has established a reputation within the UK Water Industry of being the ‘go to’ solution provider for penstock supply and installation. This deserved reputation has been achieved by ensuring that not only is the right solution chosen at inception stage, but that the right product is installed correctly, avoiding costly delays and frustrating call backs for problems with leakage or faulty operation.

Although one of the simplest types of valves used in the UK Water Industry, penstocks are notoriously difficult to install. Our fully certified Site Engineers have the expertise and knowledge to deliver an installation and maintenance service for any penstock, but will preferentially select from AVK Group’s range of high quality penstocks should a supply and installation package be required.

The Penstock Supply and Installation Service Offering Includes:

- Design Input
- Site Audit
- Product Selection
- Associated Ancillaries
- Installation and Actuation
- Commissioning
- Testing
- Maintenance
- Extended Warranties

Invicta Valves has successfully repaired and refurbished valves on numerous projects in the past thirty years and our reputation is such that we are considered ‘specialists’ by UK Water Companies and their delivery partners.

Key to our expertise is a long association with valves of all descriptions including gate, butterfly, check and knife gate to name a few. As a result, we are frequently called upon to inspect and recommend a resolution for a whole range of valve related issues including defective installation, operational failure, frost damage and leakage.

www.invictavalves.co.uk/site-solutions/
Invicta Valves provides a complete supply and installation service for both our own range of valve products and those of AVK Group. This provides our customers with a single source solution that offer many benefits such as considerable cost savings, minimal plant shutdowns, reductions in site programmes, long term solutions and extended warranties.

We offer installation on a wide range of valve products including gate, butterfly, check, knife gate and plug to name a few.

Our Site Engineers are fully certified, qualified and experienced and with our team you can expect solutions, not only products.

The valve supply and replacement service offering includes:

- Site Surveys
- Design Input
- In-House Fabrication Service
- Ancillaries
- Supply and Installation
- Commissioning
- Service and Maintenance

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AND REPLACEMENT

We often find that repair and refurbishment solutions are more cost effective for our clients than replacement and we can provide these either in-house or on-site depending upon the prevailing circumstances. Where complete replacement is necessary we will preferentially select from AVK Group’s range of high quality valves. Actuators and related ancillaries are included within the scope of our service offer.

The Valve Repair, Refurbishment and Replacement Service Offering Includes:

- Feasibility Studies
- Design Input
- Bespoke Pipework and Actuation
- Ancillaries
- In-House or On-Site Service

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VALVE SUPPLY AND INSTALLATION

...Reduced Site Programmes

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The Lee Tunnel also known as the East Ham to Stratford deep tunnel, is a tunnel for storage and conveyance of sewage mixed with rainwater. The tunnel is part of the Thames Tideway Scheme and runs from Abbey Mills Pumping Station down to Beckton Sewage Treatment Works under the London Borough of Newham.

A £635 million project began in 2010 to prevent more than 16 million tonnes of sewage mixed with rainwater from overflowing into the River Lee each year, through capturing it and transferring it to Beckton STW, which has been expanded by 60 per cent to enable it to deal with the increased volumes.

In 2013, Invicta Valves was awarded a £1.5 million contract to supply and install 19 actuated penstocks and 12 flap valves at Abbey Mills and Beckton STW, working for MVB Joint Venture over an 18 month period on both new and existing structures. In 5 locations, Invicta conducted site surveys to establish dimensions on existing structures in order to compare them with original Thames Water drawings before procuring bespoke penstocks from the preferred manufacturer. In all, more than 100 drawings were prepared by Invicta’s Site Engineers for review with MVB JV and Thames Water.

The penstocks installed were amongst the largest in the UK at up to 4.8m x 5.2m and through involving Invicta at an early stage MVB JV and Thames Water were able to find long term solutions to these notoriously difficult applications and thus benefit from considerable cost savings, minimal plant shutdowns and extended warranties. The actuation for the largest penstock was re-designed by Invicta saving £40k in cost alone.

The Worcester Sewage Treatment Works (STW) has been subject to a £4.5 million upgrade project during AMP6 in order to improve its facilities. The project was divided into four schemes covering processes such as new sludge dewatering and handling facilities and will provide several benefits including improving handling capability and the replacement of malfunctioning equipment.

Invicta Valves were engaged by Costain on behalf of Severn Trent Water to supply and install valves and pipework for two primary settlement tanks (PST’s) in chambers at Worcester STW, whilst they remained operational. This project would prove extremely challenging due to the corroded condition of the existing equipment and the confined space in which the work would be carried out and several companies had already declined to be involved.

However, after carrying out a difficult diagnostic survey in an 8m deep chamber, Invicta’s Site Engineers were confident that the work could be undertaken safely and that they could design a package that would provide a long term solution with minimal plant shutdown and within a week, Risk Assessment Method Statements (RAMS) were prepared.

Working in close collaboration with Costain and Severn Trent to isolate and over-pump the chamber, Invicta removed the existing equipment before installing new AVK gate valves and Orbinox knife gate valves and penstocks, along with associated pipework and ancillaries fabricated at their in-house workshop.

Invicta completed the project to the utmost satisfaction of Severn Trent Water and received a written commendation from Costain’s Site Agent, Andy Mountford, which has helped them to secure further work at their AMP6 CiM6 joint venture with MWH.
Our people are key to not only the successful delivery of the Site Solutions service offering but also to the overall success of our business.

We are committed to providing the most highly skilled, customer focused and trained work force, ensuring that client demand and expectation is not only met, but is exceeded. This commitment is common throughout our business and Parent Company AVK Group. One of our Customer Promises is to expect solutions, not only products.

All employees undergo regular Performance and Personal Development reviews, where training and qualification requirements are identified, enabling the business and the individual to flourish, grow and achieve their objectives.

The company holds the following Accreditations:
- Achilles UVDB Verify
- International Accreditation Forum (IAF)
- National Accreditation Board (ANAB)
- ISO 9001:2008
- ISO 14001:2004
- OHSAS 18001:2007

Our quality ethos from project inception to completion is not limited to the service or product itself, we embrace the entire process, from the early specification to the implementation and after-sales. Quality is not the result of a single link in the chain – it is the sum of all steps. One of our customer promises is to expect quality in every step.

The company is ISO 9001:2008 accredited.

The business is committed to providing environmentally sustainable solutions. We endeavour to reduce our impact on the environment at all times, by conducting risk assessments and monitoring our performance.

The company is ISO 14001:2004 accredited.

The health and safety of our people, visitors to our projects and all stakeholders are paramount to us. We have established robust procedures and processes that minimize risk and ensure that everyone recognizes their responsibility for safe working practices at all times.

The company is OHSAS 18001:2007 accredited.

Invicta provides in-house design and manufacture of a varied range of ancillary equipment including:
- Headstocks
- Extension Spindles
- Bracketry
- Fabrication
- Hydrostatic Valves

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EXAMPLE CLIENT LIST

- Thames Water
- Southern Water
- Northumbrian Water
- Scottish Water
- South West Water
- Dwr Cymru Welsh Water
- Essex & Suffolk Water
- Northern Ireland Water
- Severn Trent Water
- Yorkshire Water
- United Utilities

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