Metallic Sealing-System Solutions

**ZETRIX®**
The triple-offset Process Valve - for high demanding service conditions, covering temperatures from -60°C to max. +427°C.

Optional double block and bleed arrangement and also available in butt weld ends (up to DN 600), double-flanged (up to DN 1200) or fully lugged (up to DN 600).

**ZEDOX®**
*New from ARI!* The double-offset High Performance Valve - the economical alternative. Suitable for temperatures from -40°C to +260°C (max. +400°C). Available in butt weld ends (up to DN 1600), double-flanged (up to DN 1200) or wafer type (up to DN 800).

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Metallic Sealing-System Solutions
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By now, most of us are no more than a couple of degrees of separation from someone who has sadly died of a Covid-19 associated illness.

I rejected ‘What doesn’t kill you makes you stronger’ for the title of this issue’s Comment on the grounds of it being misinterpreted as insensitive, which would be far from my intention.

It would however have illustrated my point that strength comes from adversity, and the key is to learn from it.

My own parents lived as young adults through the last war. In addition to being intentionally starved (so the Government could spend the money saved on food to buy weapons, then later pay debts), they both held down second jobs on top of their energy-sapping agricultural posts, and all the time lived through the grimmest of news, the threat of invasion by murderous megalomaniacs, and on one famous occasion, actually being bombed.

This atmosphere produced two incredibly hard-working, amazingly good-natured, optimistic, resourceful and above all else, kind and generous people who seemed to know everyone we met. Back then, people helped one another, not just because it was necessary, but because it was the right thing to do.

It brought home to me that working from home for a few weeks with email and telephone, in a centrally-heated room with to-the-door delivered food on tap, isn’t really such a tough gig.

However, I have watched my wife troop off to work in the NHS every day throughout the crisis. She was fearful, anxious, but always went anyway, despite the mortal risk. As did hundreds of thousands of her colleagues. Often without the PPE that they needed, and frankly deserved, and some paid the ultimate price for their dedication. Some still may.

I was lifted however by our industry’s response to the crisis. BVAA played our part in getting the right advice out in timely fashion and creating new services to replace those we could no longer render.

Members however went the extra yards, by urgently making components for life-saving ventilators and other specialised equipment, by re-tasking their resources to make PPE for nurses, and by using their contacts on the ground to source sorely-needed products – things they wouldn’t do, were the situation normal.

Key for me however was the complete evaporation of reticence about asking for desperately needed help.

Everyone realised that we are a great big family, and being a member of that family gave one an entitlement to ask people we knew of, but often barely knew personally, to help their fellow man. And unless you are completely soulless, I don’t think any of us objected. We just wondered how we could help somehow if we couldn’t help with that particular problem.

If after all this is over, we could just capture that spirit in our daily lives, my God the British Valve industry would be invincible!

We need to be like my parents, to remember, and to take those valuable lessons learned and apply them every day, not just in a crisis. ‘Stronger Together’
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Autumn | 2020

Introduction to Valves (CPD Certified) | Monday, 12th October
Introduction to Valve Actuators | Tuesday, 13th October
Control Valves (CPD Certified) | Wednesday, 14th October
Safety Valves (CPD Certified) | Thursday, 15th October
Valves Advanced Level (CPD Certified) | Monday 19th ~ 20th October
PED/ATEX Directives | Wednesday, 21st October
Safety Integrity Levels (SILs) | Thursday, 22nd October

*Please note: dates are provisional and subject to change

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# BOOKING FORM
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Please complete the form and return to Barbra Homer - barbra@bvaa.org.uk
For full details on each course, visit [www.bvaa.org.uk/training_courses.asp](http://www.bvaa.org.uk/training_courses.asp)

### Autumn | 2020

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Most courses will take place at the Association’s offices in Banbury unless specified otherwise.

Prices: £320 for Members | £525 for Non-Members plus VAT.
*Valves Advanced Level Price: £400 for Members | £600 for Non-Members plus VAT.

Prefer to host at your premises? Give us a call.

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Credit Card data is shredded upon conclusion of transaction.
Meet the Team

Rob Bartlett - Director & CEO
Rob has a life-long career in engineering/fluid controls and over 27 years in senior positions in trade associations - 18 as CEO of the Association in its ‘BVAA’ era. He leads all aspects of the Association and its work, including overall responsibility for resources and operations, P&L, support for the Board, members, and various external bodies and contractors, including the technical and business development functions.

rob@bvaa.org.uk

Karen Webb - General Manager
A career in project management and NGOs, Karen has ten years with BVAA, and is responsible for all matters pertaining to membership and the general management of BVAA and its in-house team. Karen has direct oversight of BVAA’s marketing, events, training and accounting teams and is the first point of contact on management issues in these areas.

karen@bvaa.org.uk

Barbra Homer - Training Co-ordinator
Barbra is first point of contact for all training bookings and administration. She is additionally responsible for meeting room bookings as well as providing support and office administration.

barbra@bvaa.org.uk

Laura Martin - Marketing Co-ordinator
Laura is first point of contact for all our marketing activities, including the ValveUser magazine editorial and advertising, sponsorships and other advertising on our various platforms, social media, websites, etc.

laura@bvaa.org.uk

Rob Boycott - Business Development Consultant
Rob is tasked with developing contacts with EPCs and major users with the aim of securing desktop exhibitions (bookings are via the Secretariat). Rob is also tasked with specific, targeted-member recruitment.

rob.boycott@bvaa.org.uk

Martin Greenhalgh - Technical Consultant
Martin is first point of contact for advice on standards and technical regulations, etc. He’s also our Chairman of the BSI Technical Committee PSE/18 and our representative to CEN, ISO and other standards and related meetings.

martin.greenhalgh@ntlworld.com

Peter Dix - Technical Consultant
Peter is Chairman of the BSI PSE/18/1 committee responsible for ‘Basic Standards’ and the representative to its mirror committees in CEN and ISO. He’s also a valued member of the BVAA Lecturing team.

dix_peter@hotmail.com
5 Minutes with a BVAA Board Member

Q1: What do you do for your own company?

Good question. I’m new to the sealing industry, so I’m still very much in the early stages of understanding the specifics of why our customers need sealing solutions (luckily for me, we have a seasoned technical team to fall back on). Our company delivers specialist sealing solutions to OEM customers within key manufacturing verticals O&G (upstream), Wind-Power, Aerospace, as well as MRO partners. As MD for our UK business, I’m part of a passionate team of circa thirty members, and my focus is ensuring all members of the team feel empowered and accountable while nurturing a culture of continuous personal development.

Q2: What do you do on the BVAA Board?

Heading into 2020, I’ll be working in two working groups along with some of the other board members, ‘GDPR and database (CRM)’ giving support to Rob Bartlett, and ‘Member Recruitment’ to support the continued growth of the BVAA Membership.

Q3: What was it that first drew you to the BVAA?

The BVAA Training Programme drove our decision to engage with the BVAA. Our customers need more than the supply of sealing products, and it’s therefore vital that our customer-facing teams are up-skilled with the fundamental principles of Valve & Actuators.

The gap between OEM expectation and supplier capabilities is a common problem across most manufacturing verticals. The suite of training courses from the BVAA is a substantial value add to help those suppliers looking to bridge the gap.

Q4: What was it that inspired you to join BVAA’s Board?

Following our acceptance to the association as a Supplier Member, it was the charm and charisma of Rob Bartlett, along with a promise of a free BVAA tie that led me to enquire about joining the BVAA board.

Q5: What would you say to someone thinking of joining the BVAA membership?

Be clear on the reasons for joining the BVAA, starting with ‘Why?’ Achieving a tangible return on the annual subscription requires all members (and potential members) to play an active part in moving the association, and industry, forward.

Q6: What do you think is the Association’s best service?

It’s hard to pick a facet of the BVAA as the “best service,” as the spectrum of services offered by the BVAA is an excellent membership package. However, it’s the combination of a considered membership and a passionate BVAA team that makes it an invaluable service to the industry.

Q7: Which service do you think members don’t use enough?

That’s hard for me to say as I’m new to the association and board. While the networking events I’ve attended are well represented in numbers, it’s often the same pool of companies.

I’ve had meaningful conversations with new contacts at every event to date, so I’d encourage companies to delegate representation outside of their senior teams if they cannot attend. What may be just another networking event to your senior team could turn out to be a fantastic learning and morale boost to members of the wider team.

Q8: Which service would you drop?

All BVAA services aim to best serve the associations members and are all fundamental.

Q9: What should the BVAA of the Future look like?

The BVAA should replicate the success of the last eighty years while embracing current, and preparing for future technologies to help OEM and Supplier members to work “better together” for whatever challenges lie ahead.

Data* is supposedly the most valuable commodity of modern times, the BVAA should help all members engage with and adapt accordingly to prosper in the future.

*The Economist, 6th May 2017
WHAT’S NEXT?

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Where next? Try page 60

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Where next? Try page 51

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Combined with the QK Groups other services, the added efficiency and time saving won’t put you off coming back either.
Valve WG on Tour

Shortly before the national lockdown, the BVAA’s Valve Working Group undertook a tour of sites of special interest around Glasgow, Scotland. Mustering on April 2nd, the meetings kicked off on with a tour on the 3rd of TUV SUD National Engineering Laboratory in East Kilbride (featured in VU51, page 50), at the kind invitation of Dr Carl Wordsworth.

Already a world leading authority on the testing of flow, the centre has a broad range of expertise in CFD and valve testing too, and the laboratory was recently augmented with a hugely impressive $21.4m Advanced Multiphase Facility (AMF), which contains a colossal number of valves.

In the afternoon, we transited to the Advanced Forming Research Centre at the kind invitation of Paul Cantwell, the AFRC’s Oil & Gas Exchange Fellow.

Based at Inchinnan and part of the University of Strathclyde, to the uninitiated what the AFRC can do with metal is best described as a cross between alchemy and witchcraft!

There were many ‘wow!’ moments, but the ‘alloy wheel’ formed from a blank plate with perfectly contoured, consistent material thickness and the required material properties was a massive eye-opener as to what is possible these days.

The Valve WG met on the 4th April at the James Walker Devol facility in Gourock, at the kind invitation of JW’s Andy Hambleton. Situated on the staggeringly beautiful Clyde estuary, this has to be one of the most amazing vistas at any valve industry facility.

Having taking care of our ever-expanding, ever more complicated technical business, the working group were taken on a tour of the factory, the home of the world-famous Devlon family of engineering-grade thermoplastic materials.

We have often touted the BVAA Valve WG as an educational opportunity for younger engineers, but with this tour BVAA really broke the mould. Our grateful thanks to TUV SUD NEL, AFRC and James Walker Devol and their teams for making this a tour to remember.


What is it?: This document specifies the general requirements for design, materials (e.g. steel, cast iron, ductile iron, copper alloy), pressure/temperature ratings and testing for butterfly valves having metallic bodies for use in flanged or butt welding piping systems. This document applies to metallic butterfly valves used for all industrial applications.

Additional requirements given in the relevant application standards may apply to butterfly valves used for more specific applications (e.g. for the water industry, the chemical and petrochemical process industry, the oil and gas industry).

This document covers butterfly valves of the following nominal sizes, DN 40; 50; 65; 80; 100; 125; 150; 200; 250; 300; 350; 400; 450; 500 (550); 600 (650); 700; 750; 800; 900; 1 000; 1 050; 1 200; 1 400; 1 500; 1 600; 1 800; 2 000; 2 200; 2 400:

This International Standard is applicable to butterfly valves of the following pressure designations, PN and Class:
— PN 2.5; PN 6; PN 10; PN 16; PN 25; PN 40; PN 63; PN 100;
— Class 25, 125, 250, 300, 600;

Why is it important?: The main changes compared to the previous edition are as follows:
— the extension of the pressure ratings to include PN 63, PN 100, and Class 25, 250 and 600;
— update of the normative references and the terms and definitions;
— addition in Clause 4 of a requirement to mark the valve with any reduced pressure and/or temperature limits;
— face-to-face dimensions and dimension tolerance were moved in 5.3;
— addition of a 5.6 for disc requirements;
— addition in 5.7 of a requirement to have a feature preventing shaft ejection from the valve in the shaft or shaft-to-disc connection fails;
— clarification of 5.8.2.3 regarding the way to secure adjustable stops;
— addition of specified minimum clearance between fully open disc and matching pipe in a new 5.10.6.

Supersedes: Will potentially update the 2013 standard.
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From our “Zurich Approved” valve repair test centre, in Halesowen, West Midlands, we have access to a wide range of competitively priced valves from an established and trusted database of manufacturers. Combine this with our experience and expertise in specifying valve requirements on and off-site, repairing and reconditioning valves, we are confident we can offer an effective solution whatever your requirements.
The Röchling Group has been shaping industry, worldwide, for nearly 200 years.

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Spirax Sarco Engineering plc is a thermal energy management and niche pumping specialist. It comprises three world leading businesses: Steam Specialties, for the control and management of steam; Electric Thermal Solutions, for advanced electrical process heating and temperature management solutions; and Watson-Marlow, for peristaltic pumping and associated fluid path technologies. The Steam Specialties and Electric Thermal Solutions businesses provide a broad range of fluid control and electrical process heating products, engineered packages, site services and systems expertise for a diverse range of industrial and institutional customers. Both businesses help their end users to improve production efficiency, meet their environmental sustainability targets, improve product quality and enhance the safety of their operations.

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Thank you Emerson

The BVAA would like to extend their sincere thanks to Emerson Topworx for donating Topworx Valve Controllers for use in our training facility.

We are exceptionally appreciative of such donations which are displayed with great pride.

As well as being on show our expert trainers use these in their demonstrations.

TopWorx™ discrete valve control and GO™ Switch position sensing technology provides absolute assurance in the most challenging applications by increasing reliability, profitability and reducing down time. Engineered to meet tough applications while offering high reliability and installation flexibility, these rugged, dependable, and affordable models are designed to provide dependability in all environments.

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www.emerson.com/en-us/catalog/controls-instruments

Contact enquiry@bvaa.org.uk if you are able to make similar donations.

THE IMPORTANCE OF EN STANDARDS POST BREXIT

What is it?: Post Brexit BSi will continue to be a full participant in European Standards. CEN is separate from the EU. The UK is no longer a member of the EU but BSI is a member of CEN and will continue to be so after the transition period ends.

Why is it important?: BVAA through their participation in the various BSi committees for example PSE/18 will still have the ability to influence EN standards.

BSI will continue to have full voting rights on all EN standards and EN standards will continue to be adopted as BS EN standards. This includes standards which have an Annex ZA and are subsequently Harmonised.

Although we cannot any longer contribute to the Directives we are still able to influence the Harmonised standards. It is therefore essential that we continue to play an active role in all EN standards activity for valves and actuators.
Latty International UK Limited report their parent company in France, GROUPE LATTY and its employees, have been providing support to their local front line medical, nursing and support services staff by donating a number of items from their own factory stocks, namely:-

- 500 masks to the Professional Territorial Health Community (CPTS) CHARTRES - FRANCE,
- 1000 plastic aprons at the Chartres Hospital Centre,

In addition to the donation of stocked items, they also designed and manufactured, utilising their 3D printing machine, and then donated 1000 face mask visors.

Groupe Latty has also shipped similar supplies to several of its own overseas subsidiaries who were experiencing local shortages of PPE. All at Latty Group wish everyone to stay safe and well and look forward to meeting you all again in better times.

Tel: 01777 708 836
Email: trevormarshall@latty.co.uk
Web: www.latty.com

ISO/DIS 5752 Metal valves for use in flanged pipe systems – Face-to-face and centre-to-face dimensions – Draft for public comment

What is it?: This document specifies the basic series of face-to-face (FTF) and centre-to-face (CTF) dimensions for two-way metal valves of the gate, globe, diaphragm, ball, plug, butterfly design types used as isolating and check valves in flanged pipe systems. Each basic series of face-to-face and centre-to-face dimensions may be used as required with flanges of mating dimensions conforming to equivalent EN or ASME flange series.

The range of sizes and pressure designations to be covered by the updated standard is

- DN15 to DN2000
- Class 125 to Class 2500
- PN2.5 to PN400.

Why is it important?: The existing standard is significantly out of date. It is referenced by ISO product standards. It needs bringing up to date. The UK’s view is that the work in ISO should form the basis of the Revision of EN 558, which CEN TC69/WG1 are working on in parallel. ISO 5752 does not include dimensions for control valves as they are not in the scope of TC153.

Supersedes: This is a revision of the existing international standard. ISO 5752:1982 will be superseded when the updated standard is published.
At the James Walker manufacturing plant at Cockermouth in Cumbria it was discovered that there was more than enough FFP3 compliant face masks to protect their own employees, so they passed-on the surplus stock to the local community health workers to help keep them safe as they carry out their critical duties.

In addition to the provision of these masks one of the employees at Cockermouth, Janice Murphy, noticed a Facebook request for help from Allisons, a local community pharmacy, who wanted to erect a screen to help protect their employees when serving the public. James Walker have a small stock of Perspex sheets so Janice took the initiative to see whether we could support this local business and arranged for it to be cut down to the required size. Allisons collected it and were absolutely delighted with James Walker’s response.

Excellent examples of the team not only ‘doing their day job’ with all their usual professionalism and care but also going over and above what is required and taking time to think about others in their local community.
Rotork supports the NHS

‘We are immensely proud of all Rotork employees who have already contributed time and resources towards supporting the NHS, the first delivery went to the Royal United Hospital in Bath.’

Rotork, the FTSE-250 global flow control and instrumentation company, has responded to the coronavirus pandemic by innovating and supporting the National Health Service in the UK.

As some basic equipment is in short supply in the NHS, our engineers have taken up the challenge to produce face shields for front-line healthcare workers.

Our engineers from Bath and Leeds are producing 3D printed visor frames and cutting visors from laminate, and are distributing them locally where possible, or through the official NHS distribution channel, at the University Hospital Birmingham.

The challenge is the quantity needed. While Rotork employees have already made a start, in the UK alone there are 500,000 front line staff with many more now volunteering, all of whom will require PPE. The face shields make a real difference, but we all need to work quickly and cooperatively to get these produced.

We are immensely proud of all Rotork employees who have already contributed time and resources towards supporting the NHS, the first delivery went to the Royal United Hospital in Bath.

‘The face shields make a real difference in protecting front line NHS staff.’

ISO/DIS 23632 Industrial valves - Design Validation - testing of valves - Draft for public comment

What is it?: This document specifies requirements and acceptance criteria for type testing of metallic butterfly and ball valves used for isolating services for all industrial applications, and serves to validate the product design for 205 cycles. This document excludes control valves, thermoplastics valves and safety devices. This document defines the procedure for extending the qualification of the tested valve to untested sizes and pressure designations of the same product range.

Why is it important?: The purpose of this type test is to validate the seat performance within manufacturer given pressure/temperature rating, provided by the manufacturer's technical documentation of the product. This validation testing verifies torque requirements and MAST, as given in the manufacturer technical documentation. This validation test validates the durability of seat performance and operating torque through mechanical and thermal cycles. Type testing is the most reliable method to validate a product, covering many aspects, such as its design, material selection and manufacturing processes. It will also serve as a guide for valve selection, allowing customers to compare different valve types, designs and brands. Having an international standard will reduce manufacturer's cost by decreasing the number of design validations and end-user total cost-of-ownership by eliminating unintentional design flaws and planned obsolescence. The work in the ISO committee will complement the work on prEN17070 in CEN TC69/WG1, which is intended to established performance levels for different valve types for different applications.

Supersedes: This is the first draft of a new international standard.
The BVAA hosted a successful desktop exhibition at Chrysaor in Aberdeen last year. This event saw some high quality attendees and offered an opportunity for networking with the right people.

The event saw over 40 attendees visiting 10 exhibitors from BVAA member companies. The feedback overall was incredibly positive from exhibitors and attendees alike. We would like to extend our thanks to our members for coming and being a part of this exceedingly effective event. Whilst our exceptionally successful desktop exhibitions have been postponed due to the current situation with the pandemic making face to face networking events unsafe the BVAA continue to deliver services to suit our members in an unprecedented and uncertain time.

When we can resume our popular desktop events these will be resumed in full force. In the meantime digital networking takes priority and the BVAA can offer an introductions service.

Contact karen@bvaa.org.uk for more information.

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**What is it?** This document specifies the general requirements for design, materials (e.g. steel, cast iron, ductile iron, copper alloy), pressure/temperature ratings and testing for butterfly valves having metallic bodies for use in flanged or butt welding piping systems. This document applies to metallic butterfly valves used for all industrial applications. Additional requirements given in the relevant application standards may apply to butterfly valves used for more specific applications (e.g. for the water industry, the chemical and petrochemical process industry, the oil and gas industry).

This document covers butterfly valves of the following nominal sizes, DN 40; 50; 65; 80; 100; 125; 150; 200; 250; 300; 350; 400; 450; 500 (550); 600 (650); 700; 750; 800; 900; 1 000; 1 050; 1 200; 1 400; 1 500; 1 600; 1 800; 2 000; 2 400.

This International Standard is applicable to butterfly valves of the following pressure designations, PN and Class:

- PN 2,5; PN 6; PN 10; PN 16; PN 25; PN 40; PN 63; PN 100;
- Class 25, 125; 150; 250; 300; 600;

**Why is it important?** The main changes compared to the previous edition are as follows:

- the extension of the pressure ratings to include PN 63, PN 100, and Class 25, 250 and 600;
- update of the normative references and the terms and definitions;
- addition in Clause 4 of a requirement to mark the valve with any reduced pressure and/or temperature limits;
- face-to-face dimensions and dimension tolerance were moved in 5.3;
- addition of a 5.6 for disc requirements;
- addition in 5.7 of a requirement to have a feature preventing shaft ejection from the valve in the shaft or shaft-to-disc connection fails;
- clarification of 5.8.2.3 regarding the way to secure adjustable stops;
- addition of specified minimum clearance between fully open disc and matching pipe in a new 5.10.6.

**Supersedes:** Will potentially update the 2013 standard.
First established in 1990, Imtex Controls is a privately owned engineering and design manufacturing company, which was founded by Ian Turner and is now a family business, run by Ian and his two sons Paul and Mathew Turner who are Directors of the company.

With its factory situated in Deeside and Sales Representatives featured throughout the whole of the UK, Imtex Controls specialise in the production and supply of advanced, high integrity valve actuation, communication and control systems for the energy, marine and process industries. The product range includes the largest independent range of valve position monitors, IIoT valve monitoring and testing solutions, as well as Camtorc actuators for both on/off and modulating valve and damper systems.

Imtex Control’s products are suitable for both on/offshore and modulating control of process valves installed in a range of industrial sectors, including oil and gas, marine, chemical, power and low carbon.

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The Balmoral Subsea Test Centre offers a wide range of procedures including hyperbaric, mechanical and laboratory trials providing a comprehensive resource for all types of extreme pressure testing.

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Bespoke software has been created to allow full test traceability and real time observation from anywhere in the world.

This level of monitoring is a first for the industry and informs clients if current testing is running successfully or not. The facility houses 23 test vessels, 5-40tonne craneage capability and remote monitoring procedures for independent testing of all types of subsea equipment.

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TopWorx have 70 years working in the process industry, initially with the Go Switch, the hybrid switch for extreme & hazardous environments. Working in Sub-sea, -60 degrees to over 200 degrees C and nuclear qualified. A switch for many applications, fit and forget technology. More recently we are known for our switchbox brand, always at the forefront of technology and trends offering solutions for many needs of our users.

Our solutions for Valve Monitoring, sensing and Nuclear as part of the Emerson family have worldwide support and certification along with the many other brands and services offered by Emerson. Offering niche products in High temperature, sub sea, nuclear and special products expanding our offering to near limitless applications.

In the UK you can contact by email topworx-sales.eu@Emerson.com, our direct technical support line 01695 713684. Also contact our product market manager Mike Howells: mike.howells@emerson.com / mobile 07714714657

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Orseal has over 50 years’ experience in the valve market, both as a manufacturer and as a distributor, working closely on a wide variety of specialist design and bespoke project solutions. Orseal has one simple objective: to provide ideal solutions to valve control problems. We work closely with all our customers, gaining a deep understanding of their needs and objectives and then applying our considerable expertise to deliver the optimum solution.

Many years of experience in interpreting project requirements enables us to provide single and multi-valve packages with complete full documentation support into a whole range of specialist applications. Products are used for controlling fluids and gases in numerous applications: from domestic waste systems and medical control packages up to oil platforms and power. We additionally specialise in all types of marine valves for ships & frigates.

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Corrosion Resistant Materials is a family run specialist, technical materials supplier. Whether you need a one-off bespoke product or a full supply package, we have designed our company around the ability to supply our customers quickly, cost effectively and, most importantly, fully compliant to specification. Our ISO 9001:2015 UKAS approval ensures the highest quality standards in everything we offer.

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James Walker offers a comprehensive range of sealing technology and proprietary components covering virtually every valve application. From our earliest products and throughout our history the company has developed sealing solutions and components in parallel with advances in valve technology. As a result we have amassed specialised knowledge of applications across a very broad range of industries.

From chemical processing and nuclear energy to subsea valve applications in oil and gas, our experience drives innovations in materials and sealing technology that help facilitate production and performance advances.

We have an extensive range of world-class products and specialised materials including the latest generation of rapid gas decompression (RGD) resistant elastomers, the world-leading Supagraf® range of graphite-based fugitive emission packing plus innovative Devlon® V-API thermoplastic valve seat technology.

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Ferralium 255 is the original super duplex stainless steel, invented by Langley Alloys in the late 1960’s. By combining the most favourable aspects of austenitic and ferritic stainless steels, whilst increasing the level of alloying additions, we were able to significantly increase the strength and corrosion resistance compared with anything else that was available at that time.

The development of super duplex stainless steels coincided with a boom in North Sea oil and gas exploration, with relatively deep water and highly corrosive conditions. This high-performance and cost-effective grade quickly found favour within a multitude of applications, such as pump shafts, high strength fasteners, down-hole tooling and of course valves.

Ferralium 255 is widely used today for the most demanding valve applications, predominantly in various wetted trim components.

It contains C.2% copper, which has been shown to greatly increase resistance to sulphuric, nitric and phosphoric acids, making it the default choice for items being used in the production of fertiliser, urea and various other chemical process industries. In combination with the highest yield strength of any super duplex stainless steel, > 85ksi compared with just >80ksi for S32750 and S32760, it also provides superior abrasion corrosion resistance.

This is relevant for applications where the fluid is not only corrosive but also abrasive, which can exist in a wider range of industries including food, pharmaceutical, mining, power generation and flue gas desulphurisation.

You now know that Ferralium 255 was the very first super duplex stainless steel to be invented, and that it was invented by Langley Alloys. But did you know its unique properties also support the iconic Statue of Liberty?

The statue was designed by Alexandre-Gustav Eiffel, the French bridge engineer famed for building the Eiffel Tower in Paris, France. As Eiffel was aware, combining dissimilar metals such as cast iron and copper cladding can lead to galvanic corrosion. He therefore specified that asbestos cloth coated with shellac be used to isolate the copper saddles from the iron bars. This method was initially successful, yet over time the shellac dried out, allowing the asbestos to become dry and porous causing it to absorb moisture. So the cloth which was designed to prevent corrosion actually promoted it.

As the iron bars corroded they swelled and distorted, in some cases to such an extent that the copper rivets pulled though the copper sheets.

By the late 1970s a decision was taken to give the Statue of Liberty a more extensive restoration. Engineers tasked with working out how best to repair the Statue of Liberty decided that the ‘puddled iron’ in the internal superstructure needed replacing.

For the rigid flat bars they chose Ferralium® 255, which at the time was being made in the United States under licence from Langley Alloys by Cabot Haynes.

Investigation had shown that this alloy, when used for the flat bar structure and associated bolting, exhibited minimal reaction with the copper cladding. It offered thermal expansion and elasticity similar to that of the wrought iron, but was far stronger.

Langley Alloys - the original and best

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How SVS Continue to Put Customers First During COVID-19

In many ways the Engineering and Oil & Gas industries provide a foundation for our modern society, ensuring that we deliver to all our customers during this worldwide difficult period is paramount to SVS.

Many of our customers are supplying energy that goes to heat our homes, provides fuel for transport and supports many other key industries around the world such as chemical, manufacturing, food, water and waste.

It has been essential that we continue to operate as close to full capacity as possible through the everchanging situation we have all faced, this starts with our own staff and ensuring that everyone continues to work in a safe and efficient manner while complying fully with Government and NHS guidelines.

Our flexible and robust IT systems have allowed us to implement remote working instantly for those that can work from home. We have also updated our procedures, cleaning routines and PPE requirements, mitigating risk within our workshop facilities too. The exceptional level of teamwork, commitment and hard work of all personnel at SVS is what provides our clients with the high level of service they deserve, especially during these challenging times.

With extensive experience supporting clients internationally we already had many of the required arrangements in place that have allowed us to continue communicating with key personnel within their organisations, providing real-time updates on upcoming deliveries and holding regular planning & review meetings without schedule changes.

We have been working closely with our Total Valve Management clients to assist with re-arranging and executing planned shutdown and maintenance scopes. This is entirely in line with their requirements and we endeavour to do so, optimally and safely. Likewise, we continue to support our Project clients taking their current circumstances fully into consideration to adapt and meet their needs.

This has included carrying out preparatory measures for a circa 15,000 sq ft managed storage space within our Hull based facility. Our close relationships with manufacturers and stockists within our supply chain, many of which are in badly affected countries and areas, have allowed us to keep close contact and monitor on-going activity, provide remote engineering support where required and most importantly, ensure we can still deliver in a timely, efficient and professional manner to our customers. Our dedicated expediting teams have been working around the clock to ensure that this is possible.

Our thoughts are with all our customers, suppliers, friends and their families that have been affected by the outbreak of Covid-19. For any overhaul, supply or valve management enquiries, contact us now at: sales@svservices.com.

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Established for over 30 years, Rollstud Limited are a privately owned manufacturer of quality assured Bolting for the Oil, Gas and Petrochemical industries, with manufacturing facilities in Europe and the Middle East.

We hold many price agreements with blue chip companies throughout those regions and regularly supply material to large capital projects across the globe.

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We are motivated to maintain these standards and constantly seek methods to improve & evolve so that we remain a market leader at the forefront of Studbolt and Fastener supply across the globe.

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A complete solution for all your valve requirements – JBP’s stock range includes Gate, Globe and Check Valves, Rubber Lined and High Performance Butterfly Valves, Ball Valves, and we have recently added a new range of Hygienic Valves. Coupled with vast experience in complex project packages, bringing multiple designs and manufacturers under a single order – JBP can provide an unparalleled service to customers in any industry, in almost any location.

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Elite 04 Ltd are new members who would love to develop long term relationships with anyone with the BVAA that requires services like blast cleaning, protective wet paint systems and powder coating. As you will be aware that the protective wet paint systems will give life to all valves and pumps whilst in work.

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Please contact Stuart Lemon for further information.

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Valve-Kits is the leading privately owned valve mounting kit manufacturer in the UK. We supply a vast array of valve and actuator related products, including mounting kits, extension stems, locking devices, worm gears, bevel gears, accessory mounting brackets, linkages and panels for the fitting of filter regulators, positioners and solenoids.

We design all of our manufactured products to the customer’s specific requirements, in various materials. All of our designs are produced in-house by our highly trained design team, and these designs are backed up with calculations to give peace of mind to you the customer.

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SAMSON specialise in control engineering and offers products and systems to control all kinds of media.

The SAMSON Group is comprised of SAMSON AG, global SAMSON sales subsidiaries, and ten manufacturing companies that provide flow control solutions to leading processing companies worldwide.

SAMSON Group custom manufactures, sells and distributes high quality, modular linear globe, rotary plug, ball, and butterfly control valves, in standard and exotic metals.

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Operating under three companies for over 40 years, Oliver Valves, Oliver Valvetek and Oliver Twinsafe have grown to become one of the world’s leading manufacturers of Instrumentation, Pipeline and Subsea valves for the global energy sectors.

Specialising primarily in the Oil, Gas and Petrochemical industries, the Oliver companies operate internationally across all regions, with sales teams strategically located to fulfil our mission of providing outstanding technical customer service, on-time deliveries and continued Engineering innovation to all customers worldwide.

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Steam sterilizers in the pharmaceuticals sector are implemented to deactivate or remove unwanted micro organisms using a combined effect of steam and pressure.

The advantages of steam sterilization are as follows:

- effective cleaning method
- no toxicity
- no environmental impact
- no toxic residues on the sterilized product
- favourable cost-benefit ratio

Pharmaceutical companies use the steam sterilizers for example, to sterilize nutritive media, but also cages, animal feed and drink solutions within animal sciences.

There are specific requirements for the valves used in this application and GEMÜ 550 angle seat globe valves were selected as they are perfectly suited for cleanroom and CIP/SIP utilities process lines with their all stainless-steel actuator, spindle, body and even the switchbox or positioner.

The GEMÜ 550 valve spindle is sealed by a self-adjusting gland packing providing reliable valve spindle sealing even after a long service life.

A wiper ring fitted in front of the gland packing protects the seal against contamination and damage.

The sterilization process is divided into four steps:

1. Loading
2. Preparation, venting/evacuation of the chamber
3. Sterilization
4. Post-processing and drying of the sterilized product

**Loading the sterilization chamber**

The material must first be thoroughly cleaned to reduce bacterial exposure to a minimum even before sterilization. It must also be pressure and heat resistant.

Safe, reproducible steam sterilization which can be validated is only possible if there is free access to all external and internal surfaces of the product for the steam.

**Venting/evacuation**

The sterilization chamber must be completely vented before the actual sterilization process takes place. Effective steam sterilization can only be ensured if the steam has fully displaced the air in the chamber.

There are several ways to achieve this which must be coordinated with the type of material to be sterilized. When sterilizing solids, fractionated pre-vacuum is a tried and tested method and is predominately used in modern sterilizers.

In this case, air is vacuumed out of the chamber using a vacuum pump through GEMÜ 550 angle seat globe valve, and then steam replaces the air.

This process is repeated several times. Finally, steam is added until the required operating pressure is reached.

**Function of sterilization**

If the saturated steam condenses on the sterilized material, thereby emitting energy, the protein in the cell is destroyed. It is essential that this heat is damp.

While it is possible to sterilize with dry heat, it requires considerably higher temperatures and longer exposure times.

**Drying**

Heating is started after the chamber has been evacuated. Normally, sterilization is carried out at 121°C for 20 minutes or at 134°C for 5 minutes.

Once this process is completed, the steam is vacuumed off and the chamber is evacuated to 120 mbar in order to dry the product. Depending on the product, drying is carried out with a drying vacuum or air pulsation.

Hot air drying is only required in rare cases. Any existing condensate evaporates due to the vacuum and is discharged via the vacuum lead and the GEMÜ 550 angle seat globe valves.
Pulsated drying, during which the air is fed into the system in phases, has proven itself to be a tried and tested method.

Before discharging, the chamber is cooled and pressurized with cooling water.

**GEMÜ valves in the application**

GEMÜ 550 angle seat globe valves are installed in the condensate line, airline and in the refrigerant circuit.

For control functions, the GEMÜ 550, 554 and 555 angle seat globe valves are being used together with the GEMÜ 762 and 751 ball valves for other processes.

Furthermore, the GEMÜ 560 check valves, GEMÜ 740 ball valve, and GEMÜ 488 butterfly valves are also being used in this application.

Types of steam as follows:

- **Saturated steam** (also known as pressurized steam): pure steam from boiling water.
- **Unsaturated steam**: arises when there is insufficient water, i.e. the saturated steam does not fill the total space.
- **Hot steam** (also known as overheated steam): arises when saturated steam continues to be heated without water.
- **Wet steam**: arises when saturated steam cools down, e.g. during a pressure reduction, and contains water particles.
- **Steam-air mixture**: arises when steam flows into an air-filled space and has a lower temperature with consistent pressure.

![Figure 3 GEMÜ 555 globe valves for pure air](image-url)
Stewarts have been existence since 1870. Since 2011 we have been operating as an employee owned co-operative.

Our focus remains meeting our customers’ demands to the highest standards of quality & reliability.

We have full manufacturing facilities for all items & complete control over quality & delivery

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What is it that makes KSB a world leading manufacturer and supplier of Valves, Pumps & Service?

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Muller Coax are the original designers and manufacturers of coaxial valves having established the company and product range in 1960. The company is established in a range of industry sectors supplying valves to many diversified blue chip companies and organizations worldwide. These include Siemens, Rolls Royce, BNFL and many automotive plants where the valves are specified for use. Muller Coax product range includes parts for power generation, automotive plants, nuclear industry, military, pumping application and machine tools to name a few. Valve range have valves for medias and pressures up to 500 bar, 2/2 and 3/2 functions, Atex compliant fast reaction times, various body materials, position indication all are SIL2 rated as standard with SIL3 certified available on many types. Due to the design of the valve the media passes unimpeded through the valves in a “coaxial” manner, there is no pressure loss across the valve, and this design also allows the valves to handle and pass contaminated media where many conventional valves would fail due to ingress of dirt. The size of the valves vary but are all known for their fast reaction time with the smaller MK10 valves able to do a complete open / closed cycle in 60 milliseconds. Muller Coax are an ISO9001: 2015 accredited company.

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The AJT engineering team have been working in the hydro generation industry and utilities sector for over three decades offering a wide range of services from design & project management, fabrication of bespoke gates, screens, structures and pipework to mechanical overhaul within the hydro power and water treatment industries.

Their highly skilled workforce specialises in providing full turnkey solutions, working closely with clients ensuring all projects are completed safely, efficiently, on programme, and to budget.

Supported by dedicated fabrication, mechanical fitting, machine shops and large pressure testing facilities all accredited to ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018, enables projects to be undertaken from initiation to completion all in house.

Experienced M&E teams have played key roles in large scale hydro-electric schemes & specialise in providing services such as design, supply, manufacture, refurbishment, site installation and commissioning.

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WIKA Instruments Ltd, offers a diverse range of instrumentation valves for the oil, gas and petrochemical industries.

Our portfolio includes, needles valves, manifolds, monoflanges and double block and bleed.

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Offering a diverse range of instrumentation valves to meet your specific application requirements.

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XM-19 is most widely specified for the production of valve stems, but what is this grade and why is it used?

Most commonly known by the trademarks Nitronic 50 (AK Steel Corp) or Fermonic 50 (Langley Alloys), it is frequently specified against the United States ASTM reference of XM-19, the Euronorm 1.3964 caption, or the unified numbering system S20910 designation.

It is an austenitic stainless steel, therefore in the same family as the more standard grades such as 304L and 316L. It shares the same ease of fabrication and welding, is non-magnetic, plus its mechanical properties are retained across a wider range of temperatures. However, it was developed to offer significantly better corrosion resistance and strength.

The corrosion resistance of XM-19 is improved by the significant increase in the amounts of chromium and nitrogen present, which improve the quality of the protective ‘passive film’ that forms on all stainless steels.

As a first review, the Pitting Resistance Equivalent number (PREN) is a helpful theoretical way of comparing the pitting corrosion resistance of various types of metals based on their chemical compositions.

The PREN numbers can be used to compare different grades, but cannot be used to predict the absolute performance of a grade in a specific application.

The most widely accepted version of the PREN formula utilises the content of chromium, molybdenum and nitrogen as PREN = %Cr + 3.3x %Mo + 16x %N.

Whereas 316L has a typical PREN value of 25, it is 34 for XM-19 which is comparable with that of a duplex stainless steel (‘2205’).

The addition of nitrogen also helps to strengthen the alloy. In the standard solution-annealed condition, XM-19 has a yield strength 2x greater than 316L. However, when supplied in the hot-rolled condition, XM-19 has a yield strength up to 4x greater than 316L. Not only is it strong, but it is also tough.

When describing metals, toughness is commonly measured by their impact strength. This test records the amount of energy absorbed when a sample is broken in collision with a large, weighted pendulum.

The greater the number then the more likely the metal will resist breaking when subjected to a shock load. For XM-19, this impact strength is retained down to cryogenic temperatures of -196degC.

It is critical for a valve stem, as the valve may only require occasional actuation, and if it were to stick then a more considerable force would be needed to open or close it.

Therefore, the strength and toughness of XM-19 across a wide range of temperatures is fundamental to its ongoing specification.

Langley Alloys stocks an extensive range of XM-19 in both solution-annealed and hot-worked condition, from ¼” to 10” diameters.

We can supply long lengths suitable for bar-fed machining, or more typically as precisely-cut billets from our modern, CNC-controlled Kasto saws.
Georg Fischer invests in Oxford Flow to digitalise water distribution networks

Oxford, UK, March 10th 2020 – Oxford Flow, the flow control equipment specialist for oil, gas, water and industrial process industries, today announces that GF Piping Systems, a division of Georg Fischer (GF), has made an initial investment into its water and industrials business to access new technology in support of GF’s innovation strategy.

Oxford Flow will use the investment to accelerate the company’s transition to a fully self-sustained business.

The investment will also act as a catalyst for a further capital raise from its existing investors.

The funding will see the company scale up its R&D, business development and operational activities as it extends its global reach.

The Oxford Flow pressure regulating valve is one of the company’s key innovations; developed to support the water industries to deliver continual supplies of potable water and meeting ever-increasing standards for water quality, leakage control and other levels of service.

The development of the intelligent valve further enhances Oxford Flow’s reputation of providing the most advanced automation and digitalisation solutions to support the water industries’ vision of creating truly smart water networks.

Joost Geginat, President of GF Piping Systems, says, “This investment partnership marks an important step for us and will drive additional innovations. Oxford Flow’s technology will help reduce non-revenue water from operators’ distribution networks.

By adding this technology to our portfolio, GF Piping Systems strengthens the resilience of the entire water management cycle and addresses the need for safety, reliability, efficiency and hygiene in the distribution of this valuable resource.”

Neil Poxon, CEO of Oxford Flow, adds, “Never before has GF invested in a technology organization like us. It signals a shift for the utility sector, the sector is demanding more smart systems and we are pioneering them.

This funding is a massive vote of confidence in our team, our technology and the bright future ahead.

Innovation is in our DNA and together with GF, we believe we can make a remarkable impact on the way water and gas distribution networks are managed globally.”

Tel: 07779 625 189
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Web: www.oxford-flow.com
Maher are a long-established stockist and machinist of high-strength, high-performance alloys for Oil & Gas, Aerospace, Naval & Marine, Defence, Power Generation and other special applications. Stock grades include Alloys 718, 625, K500, 400, 825, 725 & 286 (660B/D) and our in-house services include cutting, first stage machining such as turning and boring, precision machining, heat treatment & NDT.

Due to the stringent requirements of the industries Maher service, quality is fundamental to everything the company does. The Sheffield based stockholder’s quality systems are fully certified to ISO 9001 and AS 9100 rev D and Maher holds full JOSCAR Stage 2 accreditation for naval & marine, aerospace, defence and security applications. Supported by both customer and industry approvals, Maher delivers to the full supply chain, from OEMs to smaller machine shops.

For more information, please visit www.maher.com. You can contact our team on info@maher.com

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Web: www.maher.com

Isis Fluid Control is a leading valve & actuator expert working across several industry sectors.

Distinct company divisions, each with their own dedicated staff, allow us to offer you professional advice and product solutions across Steam, Oil & Gas, Process and Hydraulic industries. Our unwavering dedication to customer service and quality product supply for 30 years has enabled us to forge strong ties with prestige manufacturers such as Flowserve, Emerson, Valsteam Adca, Adams and Zavero.

Such relationships allow us to provide you with complete valve packages and systems from a single source, with appropriate accreditations for your industry and full support from these respected companies. Qualified engineers in our modern workshop can carry out Hydrostatic, PMI and Pneumatic & Electric actuator testing, ensuring that our packages arrive with you assembled, tested and ready to ‘plug in’!

Tel: 01608 645 755
Email: sales@isis-fluid.com
Web: www.isis-fluid.co.uk

BERNARD CONTROLS have been designing and manufacturing electric actuators and associated control systems for over 80 years. Today, the company ranks in the international Top 3 for industrial valve and damper automation and is world leader in the nuclear sector. This key market position makes BERNARD CONTROLS a privileged partner for customers across a range of challenging sectors including Power, Water, Industry and Oil & Gas. From their head office in Gonesse, France, BERNARD CONTROLS employ over 450 people worldwide, including 3 manufacturing plants. In addition, sales and service is provided to customers from 16 operating units strategically located globally.

BERNARD CONTROLS design and manufacture electric actuator ensuring we have a comprehensive vision of industrial processes and the capacity to manage them effectively. From an electrical mechanic, we have evolved into an expert capable of managing evermore complex control systems. This shift has opened numerous international markets, while reinforcing the direction of our long-term strategy.

Tel: 07435 266 310
Email: inquiry.uk@bernardcontrols.com
Web: www.bernardcontrols.com
Special Quality Alloys Ltd – supply forgings, rolled rings, bar and proof-machined components in nickel alloys, stainless, duplex, carbon and low alloys.

With on-site open die hammer forging, ring rolling and an extensive inventory of bar stock, we are a major supplier of raw materials into critical industries. With NORSOK approval for both bar and forgings, we are approved and recognized by the world’s leading Oil & Gas OEM’s and producers.

Our strengths include the ability to provide an end-to-end service through our group companies to ensure full control of the manufacturing process from forging through to heat treatment, mechanical/non-destructive testing and machining.

Formed in Sheffield in 1986, our presence in stockholding has developed considerably with over 1200T of round bar stock on site including Alloys 718, 625, 725, F51/F55, 17-4PH, F6NM, 410 and more.

Tel: 0114 2434366
Email: sales@specialqualityalloys.com
Web: www.specialqualityalloys.com

We are a highly dedicated and experienced team ensuring an excellent customer service approach across a wide range of industries and applications. A service based on sound, objective advice from one of the leading independent companies in this field. Offering a range of solenoid valves from one single source in the UK in a variety sizes and materials such as brass, stainless steel, PTFE and others. Applications as varied as special purpose machines, medical and scientific instrumentation as well as general purpose engineering. In addition to solenoid valves ACL can offer a wide range of pneumatic controls, piloted valves, cylinders, fittings. We are also able to supply customised assemblies to meet customers specific requirements. Our process control product range offers 90° pneumatic rack & pinion actuators from 10 to 21,430NM. Rack and Pinion designs are available. Body materials in epoxy coated aluminium, stainless steel, steel and polymide. A full range of accessories are also available including: NAMUR solenoid valves, switch boxes, electric actuators.

Tel: 01942 525 833
Email: technicalsales@alphacontrols.co.uk
Web: www.alphacontrols.co.uk

Parker Bestobell have been designing and developing cryogenic valves and innovative solutions for over 150 years, serving major gas companies and Original Equipment Manufacturers (OEM) all over the world. Our vast experience and knowledge of the industrial gas and LNG industry enable us to keep developing a precise and innovative service for individual customers’ needs.

Our extensive range of cryogenic valves is used with numerous applications including static storage tanks, gas transportation, environmental control, management of medical gases, and gas handling systems on LNG ships. The range includes:

Globe valves / Check valves / Ball valves / Gate valves / Pneumatic actuators / Safety and thermal relief valves / Strainer valves / Pressure regulators / Manifold fill assemblies.

At Parker Bestobell we are passionate about on-time delivery, supplying what our customers require, at the time they require it. Due to the stock holding of key components and top-level parts, we are able to offer unrivaled lead-times.

Tel: 01271 313 131
Email: ipd@parker.com
Web: www.ipde-innovations.com
NEW Fibracon® Detectaflon PTFE – x-ray and metal detectable polymer

Helping to satisfy the increasing demand for automated detection.

The detection of foreign bodies during the processing and packaging of food products plays a fundamental role in ensuring safety and quality.

To help protect against foreign substance contamination, food, beverage, pharmaceutical and other contamination sensitive industries use automated detection in their production lines.

While metal detection has traditionally dominated in automated detection, the flexibility and functionality of x-ray detection is driving the inclusion of double detection systems.

Röchling Fibracon Ltd. have responded to the demands of the market by developing a PTFE material that is detectable by both X-ray and Metal Detection equipment.

**NEW Fibracon® Detectaflon (PTFE)**
- Is identifiable by metal detector scanning equipment
- Is identifiable by x-ray equipment
- Retains key chemical, mechanical and thermal characteristics of Virgin PTFE
- Has a low coefficient of friction
- Is corrosion resistant
- Has excellent resistance to low and high temperatures -200°C up to +250°C
- Is highly resistant to chemicals
- Is dark blue in colour to making it visually detectable
- Approved for contact with food

**Applications**
- Valve Seats
- Chevron Packings
- Thrust washers
- Seals
- Bearings
- Bushes

**Food standards approvals**
Our raw materials intended for contact with foodstuffs have undergone rigorous testing.
- 10/2011/EC
- FDA Directive 21 CFR 177.550 (fluoropolymers)
- FDA Directive 21 CFR 178.3297 (colourants)

Röchling also manufacture metal and x-ray detectable PEEK, Acetal and UHMWPE materials.

### NEW Fibracon® Detectaflon PTFE – x-ray and metal detectable polymer

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<th></th>
<th>Polystone® M MDT</th>
<th>Polystone® M XDT (UHMWPE)</th>
<th>Sustarin® C MDT (Acetal)</th>
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<th>SustaPEEK XDT (PEEK)</th>
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<td>YES</td>
<td>YES</td>
<td></td>
<td>YES</td>
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</table>

Röchling Fibracon Ltd. have responded to the demands of the market by developing a PTFE material that is detectable by both X-ray and Metal Detection equipment.

**Available as:**
- Machined components
- Rods
- Tubes
- Sheet

Röchling's range of metal and x-ray detectable polymers

Tel: 01298 811 800
Email: robyn.eaton@roechling-fibracon.co.uk
Web: www.roechling-industrial.com/uk/highpeak/
One solution for butterfly, ball/plug and globe valves

Compact design
covering a wide power range

High plant visibility
thanks to intelligent diagnostics

Low cost of ownership
combined with high energy efficiency

A future-proof actuator
adaptable to changing demand

THE NEW PROFOX ACTUATOR

www.profox.auma.com
Johnson Valves supply isolation valves, safety relief valves, pressure reducing valves, water meters, pipe fittings and related products throughout the UK and globally to a range of markets including industrial, commercial, domestic, marine, boiler, HVAC, process and water industries.

We are one of the UK’s leading independent supplier of thousands of quality engineering products at competitive prices.

We specialise in the Bailey range of safety relief and pressure reducing valves.

We keep significant stock and can set and certify them to the customer’s requirements.

We also stock and assemble actuator packages and can provide solutions, from stock, for most quarter turn applications, offering pneumatic and electric options.

Tel: 023 80 669 666
Email: sales@johnsonvalves.com
Web: www.johnsonvalves.co.uk

At Bray, our business is helping our customers with their flow control requirements. Our modular product line of butterfly valves, ball valves, actuators and accessories offer the best compatibility, economy and quality performance in the flow control industry.

Through years of field application experience, research and development, Bray has designed products that meet the stringent requirements of today’s flow control industry. With global operations in over 40 countries, we have earned a reputation for excellence by creating products of superior value and quality, providing personalised customer service and emphasising on-time deliveries.

These products are engineered to meet the needs and expectations of our customers. To provide personal attention to every customer, each region maintains a factory certified sales and service network for all Bray International products.

Tel: 0141 812 5199
Email: bcuk.sales@bray.com
Web: www.bray.com

Abacus Valves was established in 1988 to manufacture and supply wafer check valves to the process industry. Since then the company has grown consistently through our ability to understand and meet the customer's needs, cost effectively and on time. Through many years of experience and specialisation we have developed the most comprehensive range of wafer valves in the UK. When this is coupled with the capability to manufacture our range from an extensive range of materials, you can be confident that Abacus is your one stop shop for all your check valve needs.

Our design and development team are continually re-evaluating, improving and adding to our product range using the very latest CAE techniques. Abacus Valves operates with a fully integrated 3D CAD, Finite Element Analysis (FEA) and Computational Fluid Dynamics (CFD) software package.

In addition, we are able to utilise the same skills and experience to undertake design and manufacturing projects, allowing us to cater for any special need.

Tel: 01505 681 777
Email: sales@abacusvalves.com
Web: www.abacusvalves.com
Established in 2000 and located in the UK, Pressure Tech is recognised globally for manufacturing high-quality ISO-9001 accredited pressure regulators for oil and gas applications, and more recently, in the younger Hydrogen Fuel Cell market. Our product range is manufactured predominantly in 316 Stainless Steel, covers up to 1,380 bar (20,000 psi) and caters for port sizes from 1/8” to 4”.

Pressure Tech regulators are used worldwide with 70% being exported for use on critical high-pressure control systems such as wellhead control panels, gas analyser systems, hyperbaric diving systems and the latest hydrogen fuel cell technology.

We supply to an ever-increasing customer base ranging from family businesses like our own to blue chip multinationals, meaning we offer a personal touch combined with the capacity to fulfil larger projects.

In addition to our standard products, we take great pride in being able to design bespoke solutions to fulfil customer requirements.

Tel: 01457 899 307  
Email: info@pressure-tech.com  
Web: www.pressure-tech.com

Festo is a global player and an independent family-owned company with its headquarters in Esslingen am Neckar, Germany. The company has become the global market leader in its sector over the past 60 years. Festo supplies pneumatic and electric automation technology to 300,000 customers in the field of factory and process automation in over 35 industries. Festo is a partner for process automation and offers the process industry a wide range of services. It provides standardised components for the bulk materials industry, water technology, the chemical industry, the food and beverage industry, the pharmaceutical industry and many other segments, and also develops customised automation solutions with and for its customers. The automation specialist supports its customers in all project phases, from engineering right through to operation and maintenance. Customers worldwide receive all their components from a single source: control technology and remote I/Os, valve terminals, pilot valves, sensors and positioners, actuators, process and media valves, compressed air preparation and pneumatic connection technology.

Tel: 0800 626 422  
Email: info_gb@festo.com  
Web: www.festo.com

Whether it’s critical, lethal, toxic or aggressive, you’ll find Flowserve valves doing the job around the world.

That’s because extended service life, safe operation and environmental protection are at the core of every valve we manufacture.

Global customers can easily find the configurations they require, engineered to meet requisite performance and safety standards, whether it’s a standard or custom-engineered solution.

It’s a portfolio of brands for quarter-turn, rotary, linear, control and specialty configurations that covers today’s toughest demands for valve performance. But we’re looking ahead to the new challenges that will test the current state of valve manufacture. This mindset pushes us to continually pursue advancements in materials and severe-duty enhancements and the next levels of precision control, optimised flow and fail-safe shut-off.

Please contact Martin Humphreys for further information.

Tel: 01444 314 400  
Email: mhumphreys@flowserve.com  
Web: www.flowserve.com/en/products/valves
Manual Flow control option available for Bonomi’s V-Notch Ball Valves

In addition to widely used electric or pneumatic actuation, Bonomi (UK) Ltd can now offer a manual flow control device for use in conjunction with much of its popular Valpres V-Notch ball valve range.

Whilst many users still elect to use Valbia’s pneumatic or electric actuator with positioner, the new manual, stainless steel device offers an alternative, simply calibrated method, which allows precise and accurate flow control to be achieved. The manual flow control device is compatible with most of Valpres’s V-Notch ball valves including 2-piece and 3-piece ball valves, wafer pattern ball valves and split body flanged ball valves of both Carbon Steel and Stainless Steel construction.

Equally suitable for liquids and gases, Bonomi’s V-Notch solutions make it possible to transform from an on-off ball valve, into a regulation/control one, with flow rate regulation ratios ranging up to 500:1. Excellent versatility means that virtually any customer requirement can be catered for using V-ball’s V30-60, V60 and V90 patterns.

Tel: 024 7635 4535
Email: sales@bonomi.co.uk
Web: www.bonomi.co.uk

Manual Flow Control Option for Bonomi's V-Notch Ball Valves

KSB For all your valve needs In 1871 - Today & Tomorrow. Keep Safe.
Contact KSB UK. www.ksb.co.uk - valvesalesuk@ksb.com - 01952 231872
Rotork recently installed and commissioned CVL linear control valve actuators at Didcot B Power Station, which supplies electricity to the National Grid.

Rotork’s CVL1500 and CVL5000 actuators now control the supply of the spray water that is used as an emergency quench in the condensers should the steam turbine trip.

The CVL actuator installation was part of a project to improve equipment reliability and obsolescence of older plant.

RWE’s choice of Rotork for this essential part of the smooth running of the turbines at Didcot B Power Station shows the importance of effective, reliable actuation technology.

Didcot B is an efficient combined cycle gas power plant with a net capacity of 1,440 MW approx. power to meet the demands of one million households.

The linear offering of Rotork’s CVA electrically powered process control range, CVL actuators use a 1-phase or DC power supply to provide highly accurate and responsive continuous modulation of control valves.

The CVL units replaced existing hydraulic actuators and now provide improved reliability and reduced maintenance costs.

The CVL ensures extremely accurate flow control with resolution figures better than 0.1% and repeatable positional control using a 4-20 mA signal. It features a thrust range of 890 N to 22,241 N (200 to 5,000 lbf).

With an on-board data logger included as standard, the CVL is Bluetooth® compatible for local setup, control and diagnostics. A CVL actuator is perfectly suited for this particular role; they are certified as watertight to IP68 and the terminal compartment is completely sealed, vastly reducing the chance of water ingress.

Several of Rotork’s guiding principles helped secure this order; prompt quotation, fast delivery and full, accurate quotes that perfectly met RWE’s specification needs, in conjunction with the accurate and reliable operation offered by CVL linear actuators.

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Didcot B is an efficient combined cycle gas power plant with a net capacity of 1,440 MW approx. power to meet the demands of one million households.

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Tel: 0113 256 7922
Email: information@rotork.com
Web: www.rotork.com
Armoloy is a proprietary process that has been in the UK since 1989. Since that time Armoloy has been used and specified by some of the leading companies in their respective fields. The many benefits of Armoloy have been proven invaluable in thousands of applications. Armoloy has over 50 years in total in specialized experience in plating.

This experience, coupled with our proprietary plating bath chemistry, allows us to provide a finished product that we believe is superior to our competition. No additional machining is required and the part remains intolerance.

Armoloy is compatible with most ferrous and non-ferrous metals, allowing greater flexibility in choosing the base material.

We can recommend when this coating will solve your unique problem and save you time and money. Our highly trained engineering staff are able, with their many years of experience, to help give solutions to the many problems companies struggle with on a daily basis.

Tel: 01902 310 375
Email: tdc@armoloy.co.uk
Web: www.armoloy.co.uk

Duvalco UK Ltd is the UK sales office for Duvalco Valves & Fittings Pte Ltd. Established in 1956 in the Netherlands to provide valve engineering solutions and production, today we design and produce standard and custom-made valves in accordance with international standards and customer’s requirement.

All manufacturing is carried out under an ISO 9001 quality system in our own factory. Our aim is to offer the highest quality and reliability available and to this end all machining, assembly, rubber gasket production, gate encapsulation and testing is carried out under our direct control.

Duvalco manufacture Butterfly, Gate and Check Valves and Hydrants which are supplied into the Oil & Gas, Marine and Water & Power Industries. Duvalco has multiple international manufacturing sites and sales offices with Duvalco UK Ltd based in Huntingdon, Cambridgeshire.

Tel: 01480 411 333
Email: sales_uk@duvalco.net
Web: www.duvalco.net

Metso is a world-leading industrial company offering equipment and services for the sustainable processing and flow of natural resources in the mining, aggregates, recycling and process industries. With our unique knowledge and innovative solutions, we help our customers improve their operational efficiency, reduce risks and increase profitability. Metso employs over 15,000 people in more than 50 countries. Neles Corporation is planned to be created in a partial demerger of Metso, in which Metso’s Flow Control business would become the independent Neles Corporation and it would continue Metso’s listing on Nasdaq Helsinki. Simultaneously, Metso’s Minerals Business would combine with Outotec to create Metso Outotec. The closing of the transaction is currently expected to take place on June 30, 2020, subject to regulatory approvals. Metso’s Flow Control has a strong platform in valves and we are a leading global flow control provider for a diversified mix of process industries. A large share of our business comes from services. Our operations footprint is geographically well-spread, and we have a service presence with over 40 valve service centres around the world.

Tel: 01256 639 750
Email: uk.sales@metso.com
Web: www.metso.com
For 100 years, LATTY has been dedicating its R&D resources to improving sealing solutions that meet the requirements of the OEM & End User Valve industry:
- Products complying with Fugitive Emission standards increasing end-user safety and environmental protection
- Easier maintenance and reduced costs via the use of preformed packing rings and site wide product rationalisations
- Development of next generation compressed packing and anti-extrusion rings which provide outstanding sealing efficiency under low clamping force, very low friction coefficient and excellent elastic recovery.

FUGITIVE EMISSIONS
Over 100 valves in dimensions 1" to 10", pressure classes 150 to 2500 lbs have been approved to ISO 15848-1 (helium) or API 622, 624 and 641 (methane)

CRYOGENICS
Cryogenic tests to -196°C performed on our test benches for ISO 15848-1 approval using our LATTYgraf EF NG.

OXYGEN
LATTYflon 3206S for BAM-approved hazardous oxygen services.

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Email: n.prior@latty.com
Web: www.latty.com

The Smart Actuator Company has officially rebranded to RIFT Actuators. We cover torque ranges up to 400 Nm. We currently offer four unique Smart Electric Actuators: The RIFT Small, RIFT Medium, RIFT Large and the RIFT Subsea. Our unique patented technology, ensures all our Actuators are the most energy efficient available, whilst the ‘Smart’ software features allow all units to be upgraded with features such as Failsafe, Multiturn, Modulation, Speed Control, Process Control and more.

Valve & Actuator commissioning is via our own in-house app with Bluetooth connectivity built into every Actuator, and could not be simpler to use, cutting installation time and cost. If you wish to contact us directly, you can do so via our telephone number: 01684 565 709. To view more of our upgradeable features and find out what they do, please visit our website: www.riftactuators.com

Tel: 01684 565 709
Email: sales@riftactuators.com
Web: www.riftactuators.com

Operating globally, KT Hydraulics provides world class bespoke solutions in the engineering of hydraulic systems, from initial design, manufacturing and testing through to installation and expert aftercare. These applications can be used in the oil, gas marine, water, nuclear, process plant industries.

KT Hydraulics offers complete engineered projects, starting with specifications required by the client to the delivery and installation to end-user. Part of their portfolio is the manufacturing of API 614 Lube Oil systems, API 682 Seal Systems, Hydraulic Actuators and on-site installation, commissioning and site work services.

In addition, KT Hydraulics is the sole UK distributor for Kracht GmbH offering Gear Pumps, Flow Meters, Volutronic and industrial hydraulics as well as most recently, partnering with Hydraulic International Inc to become their sole UK distributor in the selling of liquid pumps, gas boosters, air pressure amplifiers and spares. KTH ensures every project is undertaken with the most rigorous standard of quality.

Tel: 01422 377 474
Email: enquiries@kt-hydraulics.co.uk
Web: www.kthydraulics.com
The company set out to provide easy access to high quality industrial and marine valves and ancillary equipment and to provide unsurpassed service that together delivered premium value to its customers.

In the early days, it was just Alan, Colin and Alan in a small start-up unit, all working around the clock to make their fledgling company a success. From the onset the three owner/directors made a commitment to reinvest a high percentage of profits back into the company.

This decision contributed to rapid growth, with the business achieving £2.2m in sales in only their 4th financial year and enabled the firm to move to larger premises and both increase their stock range and maintaining higher stock levels.

Initially the company’s core product group was developed and manufactured by their principal supply partner LK Valves AB, Sweden. But as a result of its growing reputation, LK Valves & Controls soon caught the eye of two of the world’s leading valve manufacturers and signed exclusive stocking and distribution agreements with Winel BV, market leaders and manufacturers of tank vent check valves, marine doors and hatches, and with Wouter Witzel BV, manufacturers for over 50 years, of high quality vulcanised rubber lined butterfly valves and high performance butterfly valves.

In 2014, the directors took the bold decision to invest an initial £100k+ on stock of Japanese Industrial Standard (JIS) valves. The decision was taken to satisfy the demand for immediate repair requirements for the ever-increasing amount of ships built in the Far East that now operate in and around UK waters.

Fast forward to the present day this ‘forward thinking’ investment has paid dividends. The initial JIS stock profile has increased and has allowed LK Valves & Controls to satisfy the demand for these valves in the UK.

Today the company has diversified into other markets and currently represents market leading manufacturers with brands such as Meson, Wouter Witzel, Winel, Orbinox, Socla, El-O-Matic, Damcos, CNJ, Pekos, Starline and many more.

The company now operates from its purpose built 5000 ft² modern premises in Liverpool which allows the space and capacity to stock and distribute off-the-shelf valves for same day dispatch.

All with the added insurance of back-up stocks held at its principal supplier’s mainland European facilities.

LK Valves & Controls has built a reputation for having highly professional, knowledgeable and dedicated staff with a ‘can do’ attitude, delivering quality products on time.

The firm continues to grow year on year constantly attaining £3m+ sales per annum and achieving record sales in the last financial year. Alan Wareing comments; ‘We are always looking to maintain and improve our current position, increase our stock holding, maintain a high level of customer satisfaction and effectively represent our principal suppliers in the UK.’

For more information, ex-stock and short lead time supply, please contact one of LK Valves & Controls experienced team.

LK Valves & Controls - providing unsurpassed service for 15 years.

Tel: 0151 548 3300
Email: sales@lkvalvesandcontrols.co.uk
Web: www.lkvalvesandcontrols.co.uk
Les Littlewood retires from Albion after 26 years

After 26 years at Albion and even longer within the valve industry, Les Littlewood, Albion’s Sales and Marketing Director, will be retiring from his role.

Les has had a very successful career, of which almost 30 years of it was within the valve market!

Les started his working life working at PCL in Sheffield, and whilst he was there, he achieved his HND as a draughtsman.

He then enrolled to the Royal Navy (Fleet Air Arm) where he spent 12 years tactically navigating Sea King helicopters in the Anti-Submarine warfare and Search and Rescue roles.

It was a chance encounter in a pub that led Les to join the valve industry, as he started working for Bancroft Pipeline, in Derby, in the early 90’s. Here, he worked as an Area Sales Manager for three years.

Les joined Albion Distribution in 1994; the company is now known as Albion Valves (UK) Ltd after a name change in 2012.

He joined the company as a National Sales Manager and his role was to develop customers up and down the UK, many people within the industry may remember Les from those early days as he was instrumental in building the customer base that Albion has today!

In 2003, he was promoted to Sales Director and Albion started to appoint Area Sales Manager’s to manage their accounts in England and Wales, whilst Les was still responsible for managing all key accounts and all accounts in Scotland and Northern Ireland, up until 2011.

During this time, Les’s role changed to include marketing, something that Albion had never undertaken before, and he became Albion’s first Sales and Marketing Director.

To help in this new role, Les initially employed a consultant to help develop the strategy of becoming a leading brand within the industry and more recently he brought this in-house with appointment of a Marketing Manager in 2016.

During his time at Albion, he has seen the company’s turnover increase dramatically, their product portfolio reach over 5,000 lines, the number of employee’s grow tenfold, and Albion’s sister company – Albion Valves (International) Ltd - be established and begin to flourish.

He has also been involved with a number of initiatives with the aim of educating the industry, such as the SAFed guidelines, which explained the correct usage of safety valves, and the Expert Ease guide, which aimed to demystify the jargon behind hydronic balancing.

There is no doubt that Les will be greatly missed throughout Albion and the whole industry, as he has played such a vital role over the past 26 years.

Albion, and no doubt all of you, thank him for his contributions to the industry over his career and we wish him the very best for the future.
AIV is a global master distributor of high-quality valves and actuators, selling through distribution only.

Established in 1991 as a resource for hard-to-find, exotic alloy and specialty valves, AIV has built a reputation as a trusted resource serving the oil & gas, refining, chemical, petrochemical, power, pulp & paper and water treatment industries.

With a state-of-the-art, 320,000 square foot warehouse facility in Houston, Texas, and additional sales and stocking locations in the US, Canada, the United Kingdom, Dubai and Singapore, AIV currently holds in excess of $100 million in global inventory, with an additional $60 million on order at all times.

When requirements cannot be met with an off-the-shelf valve, AIV is able to provide our customers with a wide range of modifications to new valves through our sister companies - Gulf Coast Modifications in North America and Adanac in Europe.

Tel: 01223 403 370
Email: fjimenez@aivinc.com
Web: www.aivinc.com

Established 1986, Ultravalve offers a wealth of experience supplying a broad range of industrial valves and process solutions. Ultravalve offers a full range of valves for district heating and cooling solutions, along with stainless steel balancing valves, through its exclusive UK partnership with Vexve & Naval, the world’s leading manufacturer in this market. As the long-term exclusive partners of Mondeo Valves, for many years Ultravalve has supplied stainless steel manifolds, WRAS approved non-return valves and all related components to the UK market.

Ultravalve also supply, install, commission and test RPZ valves, while offering control valves, WRAS approved ball valves, butterfly valves (wafer/lugged), and the complete package of overhaul, repair, test and recertification services across its entire industrial valve range. Ultravalve’s longevity and strong growth come as a direct result of the ambition to surpass customer expectations.

Tel: 01384 411 888
Email: sales@ultravalve.co.uk
Web: www.ultravalve.co.uk

WSG Provalve have extensive experience in providing specialist valve solutions, with over 13 years of expertise in the field of valve repair and associated instrumentation. The company has built a well-respected reputation exceeding the needs of customers and has remained committed to providing fantastic value and the very highest possible industry standards through the expansion of a highly skilled and dynamic workforce.

This dedicated team enables the delivery of expert repairs with regard to all types of Globe Control, Safety & Relief and Isolation Valve Products. New Asset Intelligence Management (AIM) Software offers clients the ability to view, log, and track all relevant data attributed to an activity or process. Whether it’s a valve, torqued joint, pressure test envelope, instrument, hose or fabrication.

WSG Provalve are proud of their record in quality and innovation and continue to work to their goal of being not only the most reliable valve repair specialists but also the most forward thinking.

Tel: 01924 898 250
Email: uksales@wellservices-group.com
Web: www.wellservices-group.com
The Bonomi Group, with corporate headquarters in Italy and technical sales offices in the United Kingdom, Germany, Russia, North America and India, is a global specialist in the production of valves and actuators.

The group comprises three separate companies: Rubinetterie Bresciane, Valbia and Valpres, who whilst operating in distinct marketplaces, frequently interact and pool their expertise to produce innovative customer solutions.

Bonomi (UK) Ltd, is one of the most respected suppliers in its field, offering a “one-stop-shop” approach to process valve, actuators and hydraulic component supply, complemented by an extensive stock holding which ensures reliable, next day delivery.

The company offers a comprehensive range of brass, cast iron, stainless steel and carbon steel ball valves, together with a series of butterfly valves, which are sold individually or as an actuated package.

Tel: 024 7635 4535
Email: sales@bonomi.co.uk
Web: www.bonomi.co.uk

AVA-ALMS Valve Agency are supplier of Valves for both MRO and projects. For almost 40 years AVA-ALMS Valve Agency established itself as a leading stockiest of industrial valves according to DIN and ASME standards in Europe. As a long term major partner of leading companies in the Chemical, Petrochemical, Process Plant, Power and General Industry.

Consistent storage volume of more than 150,000 products valued at approximately 10 million euros held in stock in Germany, UK and The Netherlands giving us immediate availability of our standard range of valves which include: Gate Valves, Globe Valves, Check Valves, Plug Valves, Ball Valves, Butterfly Valves, Strainers, Sight Glasses from leading international manufacturers in various Carbon Steel, Alloy Steel and Stainless Steel to DIN and ASME Standards. AVA-ALMS Valve Agency are approved to ISO9001:2015

Tel: 01937 840 460
Email: sales@ava-alms.co.uk
Web: www.ava-alms.co.uk

Zoedale Ltd, now part of the OEM International Group, was founded in 1976 and is a specialist in solenoid valves and valve actuators. Zoedale has a strong focus on service and expert technical support and carries extensive stock at its Bedford premises. Amongst others, Zoedale represents ASCO, Aventics, TopWorx, Sirai, Valpes, Omal, Bernard Controls and Guth. This wide range of suppliers covers most industries and applications requiring valves, actuators, solenoid valves, gas safety and pneumatics automation.

Zoedale has joined OEM Automatic to increase its technical support, broaden its product offering and continue to develop its expertise in the pressure and flow sector.

It is looking forward to being able to offer its customers an even wider selection of products, improved stock availability and additional expert technical advisors across the two companies.

Tel: 01234 832 832
Email: enquiries@zoedale.co.uk
Web: www.zoedale.co.uk
As technology is becoming more and more prominent within our everyday lives it is not surprising that the building services industry is looking to technology for ways to become more efficient.

Albion Valves (UK) Ltd, a leading valve supplier to the building services market, has recently introduced Building Information Modelling (BIM) components for its core product range.

BIM software allows buildings to be designed digitally using 3D components allowing for an early visual representation of a build, plus all associated asset data.

All aspects of a building can be designed in this software, from the valves to the windows and doors, this provides an easier and more accurate way to generate system quantities and highlights any conflicts at the initial stages, before the construction begins.

The accompanying asset data which is associated with each BIM component is important when designing HVAC, hot and cold water systems, this data will incorporate key information such as dimensions, weights and flow rates which will allow the user to establish whether all components incorporated are compatible.

The demand for BIM components has increased dramatically in recent years due to the Government’s Construction Strategy that states the Digital Built Britain programme will be a primary focus over the coming years, and as part of which, BIM will play a large part.

In preparation, the Government defined 4 levels of BIM in 2011, with a view to all centrally funded Government projects using BIM Level 2 by 2016, which has been achieved, and the introduction of Level 3 into the market by the mid-2020’s.

The upcoming Government projects, such as the promised 40 new hospitals before 2030, will emphasise the efficiency and cost-saving benefits of BIM and encourage more private sector projects to also utilise this new way of working.

Building specifiers, designers and contractors within the building services sector are now frequently utilising the tools available to digitise the built environment, thus providing them with a detailed analytical view of a built asset during the design and construction of a project. The uptake of this new technology demonstrates that the industry has recognised the need for a more efficient design and, more importantly, is willing to adapt.

David Keys, Albion’s Managing Director, comments “With the massive benefits that BIM brings to design and build stages of construction I have no doubt that it is going to completely revolutionise the industry. This new way of working not only improves productivity but also reduces risk, waste and costs, not only through the construction phase but for the lifetime of the build.”

Whilst the benefits for BIM during the construction phase are plain to see, the benefits it holds for maintaining the building are not quite as obvious.

The maintenance benefits include improved awareness of asset locations, especially when it comes to valves and pipework as they are likely to be hidden and not always easily accessible, and the asset data allows engineers to determine that replacement valves are fit for purpose and will ultimately reduce downtime.

Albion’s BIM components are available to download free of charge from www.albionvalvesuk.com/bim or the bimstore, and are conveniently compatible with many of the leading BIM software programmes, including Autodesk Revit, Bentley and IFC.

For more information please call 01226 729900 or email sales@albionvalvesuk.com.
Advanced Valve Solutions - Blue Light Scanning

Blue Light Scanning
Advanced Valve solutions can offer (through our partners) advanced surface measuring through blue light scanning technology.

This technology allows our customers and suppliers quality assurance, detailed analysis of component failure for investigations and future continuous improvement.

The scanning equipment can be used on site, allowing component scans that can be from a few millimetres, to in excess of 75 meters such as bolts, turbine blades and complete shaft lines.

The AVS Solution
Advanced Valve Solutions can offer a package of dedicated products to identify problems, based on our specific and extensive experience in these types of operating regimes.

With this package in place, it leads to reduced maintenance costs, improved reliability of your existing installation.

With many years of experience and a group of high qualified European manufacturers supporting our performance, we deliver a complete solution.

Through the use of geometric measuring systems, TRITOP optical 3D co-ordinate measuring machine (CMM) and advanced topometric sensors (ATOS) extremely high-resolution images are able to be produced.

They can then in turn be exported to other engineering programs and tools.

CMM offers the most accuracy. Using multiple measuring points. The more measuring points applied, the more precise the visual model will be.

The sensors and software are able to create 3D images demonstrating length, internal and external diameters, angles, material depth.

This allows components to be examined for cracks, previous component repairs, or overlaid against component manufacturer’s imaging to identify unwanted stresses, and help prevent future issues.

With many years of experience and a group of high qualified European manufacturers supporting our performance, we deliver a complete solution.

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Seetru Limited is a Bristol-based company with over 70 years experience manufacturing safety relief valves and other specialist ancillary valves for a wide range of applications, including compressed air, industrial gas, refrigerants, powder, steam, liquid and liquefied gas. All of our valves meet international standards such as ASME Section VIII design codes and approvals from TÜV and the National Board. Our products comply with the requirements of the European Pressure Equipment Directive (PED) and are available with both the CE mark as well as the UV stamp, and have wide international approvals such as the EAC (TR CU) customs union certification and declaration (Russia, Belarus and Kazakhstan) and the Canadian CRN.

Seetru offer quick delivery for ALL of our safety valves! We have a Same-Day-Despatch service for selected models and a Three-Day-Despatch service which covers almost the entire range of valves we manufacture.

The Seetru Organization consists of Seetru Limited and Leser UK Limited; it also includes Seetru Engineering Services which is an operating division of Seetru Limited.

Tel: 0117 930 6100
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Web: www.seetru.com

Advanced Valve Solutions B.V. (AVS) has since earned an unparalleled reputation for supplying specialist valves and equipment into some of the most demanding industrial applications. Together with our sister companies Advanced Valve Solutions (UK) Ltd and Advanced Valve Solutions USA Inc. our team of experienced engineers has been delivering tailor made engineered solutions to customers in the Power, Oil & Gas and Petrochemical markets. Our sales engineers have extensive process knowledge and experience in the field of valves, control valves and other fittings. From this knowledge we design customised solutions utilising high quality, innovative products that optimise process control and performance. Delivering improved plant availability and reduced cost savings by utilising products that perform better, less prone to wear and last longer. Excellent collaboration, communication and relations with our manufacturers make it possible to respond quickly and effectively to your technical questions.

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Buxton Special Alloys is a UK Stockholder and Machinist of Stainless Steel, Duplex, Super Duplex and Nickel Alloys. Their main grades consist of 300 series, F51, F53, F55, F44, 17-4PH, 32550, XM-19, Alloy 800, Alloy 800HT, Alloy 825, Alloy 20, Alloy 28, Alloy 625, Alloy 600, Invar 36 and many more on application. In addition they supply customer modified specifications and low cobalt grades of stainless for Nuclear application.

The companies extensive product range consists of Re-Forging Billets, Rolled and Forged Bars, Cut Pieces, Rings, Hollow Bored Bars, Bored and Honed Hollow Bars, Forging, Flanges and Machined Components.

Buxton have more than 25 years of experience in different market sectors including Oil and Gas, Marine, Aerospace, Petrochemical and many more.

Stock is located in UK and supplied globally to the world market. Products are supplied in accordance with NORSOK.

Tel: 01709 267 034
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Adanac provides a comprehensive and reliable source of specialist valves on short lead times. Adanac is a BSI 9001 registered company and Adanac also holds a PED Certificate of Conformity (CE56828). Adanac’s employee base is made up of a team of highly skilled Engineers, QA staff, Draughtsmen and ASME IX coded welders. Collectively, Adanac’s staff has over 230 years of experience in the valve industry.

Additionally, Adanac holds approved modification shop status from manufacturers such as: Kitz Corporation, Bonney Forge and Velan.

Modifications offered include: cryogenic applications, bellows seal conversions, trim changes, jacketed valves, actuated valves, industrial valves and pressure vessels.

Adanac also offers the provision of specialised services, including degreasing, pressure testing, cryogenic testing, fugitive emissions testing, refurbishment of valves and other pipeline products and pressure vessels.

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Web: www.adanac.co.uk

Gee Graphite Ltd is an independent specialist graphite gasket and seal manufacturer with over 30 years’ experience supplying High Quality Flexible Graphite based sealing solutions to the Industrial Valve, Process Equipment, Chemical, Metallurgical, Electric, Power Generation and Automotive markets. 40% of Gee Graphite Ltd sales are exported to customers in Mainland Europe, USA, India and China. Gee Graphite is recognised as a major supplier of high Graphite based sealing solutions including the following:- Butterfly Valve Seals (Double and Triple Eccentric) (2” – 100”) / Solid Metal Seats (2” – 100”) / Secondary Metal Seats / Graphite Tapes (Plain and corrugated) / Die-Formed Rings / Braided Packing / Graphite Gaskets / Graphite re-enforced Gaskets (NR / SST / SSR / INR and PG) / Spiral Wound Gaskets / Camprofile Gaskets / Water Jet Cutting (Pure Water and Abrasive). With a history of solving application based problems from Cryogenic to elevated temperatures and vacuum to high pressures, Gee Graphite Ltd continue to supply high quality products based upon this unique material to customers globally.

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Moontown Ltd have been manufacturing & distributing PTFE Spring Energised & Hydraulic Seals since 1996. The company has continued to grow and establish a superb reputation within industry, focusing primarily on the Oil/Gas & Energy sectors but having a strong foothold in Hydraulics, Medical, Marine, Machine Tools, Food, Motorsport, Semi-Conductor & MRO. Moontown are proud to manufacture in the UK “From Powder to Part” having complete control of all aspects of the seal manufacturing process and offer seals from 2mm > 2000mm from standard profiles or to your bespoke requirements. We offer a complete 3D CAD seal design service, on site PTFE billet production, in house spring winding, advanced CNC manufacturing process and EDM facilities for tool making. Moontown are also pleased to announce that we now have in house facilities for the manufacture of “standard” seals in a wide range of polymers including NBR, FPM, SILICONE, EPDM & POLYURETHANE. Our highly trained staff, facility and process make us the leading PTFE seal manufacturer in the UK. With no tooling or minimum quantities we can satisfy any requirement from special “one offs” to production runs at the highest standards in a range of materials.

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James Walker helping to pioneer a change in critical subsea applications

Throughout their history, the experts at James Walker have worked in partnership with industries around the world to remain at the forefront of technology and to help customers to realise the maximum benefits and opportunities for their applications.

The materials experts at the James Walker thermoplastics centre of excellence, based in Gourock, have been working with a number of customers recently on another such project which aims to reduce component weight in critical subsea applications.

ROV torque buckets are commonly fitted in applications such as valve panels on subsea trees, control panels and manifolds as well as valves for actuation and have traditionally been manufactured in steel.

Having many years of experience in material replacement for multiple valve and oil and gas applications has allowed the James Walker team to identify this as a key area where an engineered thermoplastic substitution could provide numerous benefits.

Following discussions with customers, a design, prototyping and testing phase for the Devlon® ROV buckets was undertaken at the James Walker facilities in Gourock.

Devlon® materials are amongst the toughest and hardest wearing thermoplastics available, making them ideal for subsea applications, where they have been specified for critical applications for over 25 years.

The robust construction is corrosion free, whilst the simpler manufacturing process eliminates the need for coating and welding normally associated with metal counterparts. The rigorous testing and development programme (validated by DNV) tested two standard designs to BS EN ISO 13628-8:2006 and qualified the design life for 30 years.

Furthermore, the buckets are fully recyclable and offer a lower carbon footprint than a metallic part.

In the event that customer-specific requirements may call for an alteration to standard design and mounting configurations, the team at James Walker is able to assist with design, manufacture and testing.

Andrew Hambleton, Global Product Manager, commented:

“We are seeing a lot of interest from customers looking to benefit from changing existing metal parts such as the ROV torque buckets to high performance thermoplastics and as always, we are excited to be able to offer our expertise in assisting with any development and testing required.”

Tel: 07730 760 948
Email: andrew.hambleton@jameswalker.biz
Web: www.jameswalker.biz
Due to recent events, manufacturing companies across the UK have been forced to come to a sudden halt. As a result of this, many key workers and critical staff members have been left with limited resources. As a company we wanted to make it known that we are still open for business and we are safely working through the lockdown.

If you require any information on the products that we currently have available, please don't hesitate to contact us: sales@riftactuators.com

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At QK we are always looking for that next step, the avenue our customers would find the most useful, or an oft-trod road that could be made better.

This year we will be adding more services and more products, some that may surprise and delight you, but whatever we add in tangible services, one thing will always stay the same...

Our first class customer service.

So where next? Try page 68
There are many contaminants that cannot be avoided; regardless of clean room procedures, equipment constantly going through sterilisation, protective clothing being cleaned and stored to the highest practice standards – simply moving creates millions of microscopic particles in the air around delicate operations.

R&D in almost every sector requires some level of effective cleaning for work surfaces, partitioning, guards and lab equipment storage – using anything from simple antibacterial wipes to full solvent and alcohol-based decontamination fluids.

In this respect Powder Coating Mild Steel fabrications, offers a very smooth and even surface, resistant to the harsher cleaning fluids. This is just one of the areas that adds to the range of enquiries that come Premier Powder Coating’s way – and all are fascinating.

From medical equipment brackets that require sterilising on a daily or even hourly basis, to go-kart and off road bike frames being protected from good old fashioned mud – our customers tell us they are very impressed with the fine finish and ruggedness of our electrostatic process.

So where to next?

Quality finishing of the parts you provide, or the parts the QK group manufacture for you, isn’t just about the look of the item, it’s about the coat and the product beneath that powder coat surviving whatever is thrown at it. It helps our customers to know that industry and application specific special finishes, thicknesses of applied powder and colour coded identification of parts and accessories – ideal for extreme conditions, life time maintenance free coating and constant cleaning requirements – are supported by a technical knowledge and experienced operatives whose skills are second to none.

Powder Coating Mild Steel fabrications, offers a very smooth and even surface, resistant to the harsher cleaning fluids. High Quality Matt or Gloss Smooth Finish Tough and Resilient, Scratch Resistant Seals the component minimising corrosion risk Any RAL Colour Available Special Finishes Available on Request

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Arc Energy’s weld overlay and weld inlay service offers a reliable and very high quality product for the Energy Sector around the world.

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Severn Glocon Group: progressive valve engineering for the oil & gas sector. Severn’s control and choke valves have played an integral role maximising the safety and profitability of oil and gas production for nearly 60 years. Today we provide a wide range of valves and associated services for new projects, existing plant and subsea applications. Industry leaders know they can rely on our high-integrity products and advanced engineering skill. We are at the forefront of valve innovation for complex and arduous applications, especially those associated with extreme production environments. Our proven expertise encompasses a wide range of upstream oil and gas processing and production scenarios, including onshore, offshore, LNG and FPSOs. As the energy sector evolves, Severn continues to drive breakthrough solutions that extend valves’ reliability and performance. Our intelligence-led engineering ethos is geared towards continual improvement and underpinned by a global network of engineers and facilities. It all adds up to excellent value, efficiency and effectiveness.

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Webtec is a hydraulic measurement and control company that designs, manufactures and distributes a world-class range of hydraulic components and hydraulic test equipment for the mobile and industrial machinery markets. With over 50 years’ experience in the fluid power industry it specialises in high-pressure control valves and flow measurement. Headquartered in St Ives, Cambridgeshire, UK, Webtec is privately owned and employs around 60 people in the UK, France, North America, Germany and Hong Kong. The company is committed to increasing the knowledge and skills of its employees, customers and the wider community. From modern apprenticeship schemes to educating and encouraging the next generation of engineers the company is proud to sponsor programmes such as the Arkwright Scholarship Trust, Engineering Education Scheme and The Secondary Engineer® Fluid Power Challenge. Webtec has a dedicated ‘Education’ resource section to its website, https://www.webtec.com/education/ where specific product and educational guides can be downloaded free-of-charge.

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Founded in 1902, Broady Flow Control Limited has been a specialist valve manufacturer for over 100 years, servicing a range of industries from Power Generation, Oil and Gas to Nuclear Submarines.

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Since 1938, Broady has supplied its products to the British Royal Navy.

Specialist Valve Services (SVS) was formed in 1998 specialising in the supply of valves, actuators and ancillary equipment for clients in the oil & gas and petrochemical industries. Based in Europe’s oil capital Aberdeen, SVS supplies to and operates in the UK and International markets. From Brazil to Sakhalin Island, SVS has experience in the delivery of key high-profile valve & actuated packages.

SVS has built up substantial engineering teams with knowledge and expertise, the company has successfully planned, delivered and overseen the supply and management of valves and actuator packages to well-known green and brownfield assets.

SVS are specialists in the design, supply, testing, repair, reconfiguration, maintenance and inspection of Topside & Subsea valves, actuators, and ancillary equipment. SVS’ innovation and success has grown the business, allow it to diversify into industries including: Refining, LNG, Ship Building, Power Generation, Mining and more recently Pulp & Paper.

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Kinetrol extends its product range with the addition of the Model 60

Kinetrol Limited, the UK manufacturer of quarter-turn pneumatic actuators, has further increased its product portfolio with the introduction of the Model 60.

The new unit, which joins the wide range of actuators already manufactured by Kinetrol, increases the company’s torque output coverage to over 40,000 Nm (350,000 lbf.in) to include 16” engineered ball valve and 2m butterfly valve applications.

The Model 60 is currently the largest actuator in the Kinetrol collection, adding to the sixteen units already available, starting at 0.1 Nm.

The unit is a single vane actuator, giving ‘direct drive’ rotary control. The one moving part construction minimises side loading, eliminates axial loading and increases life expectancy.

The Model 60 also utilises Kinetrol’s preloaded, double-opposed, polyurethane lip seal and air consumption reducing/energy absorbent side plate technologies.

This, coupled with a new end-stop design, extends the actuator’s life, reduces its energy consumption and maximises its operating speed.

As with their existing actuator range, the new Model 60 benefits from Kinetrol’s popular modular concept of control accessories.

This allows the customer to choose from a range of options such as the AP (pneumatic), EL (electropneumatic) and DP3 positioners, safe and hazardous area limit switch boxes and the company’s distinctive clock-type spring fail-safe packs.

Geoff Burton, Sales and Marketing Manager at Kinetrol, said

‘This new addition to the Kinetrol range will allow us to expand into new markets, offering customers an alternative actuator solution for their larger valves with all of the proven benefits of Kinetrol’s quarter turn rotary design.

The new unit is subjected to our rigorous quality and test procedures and carries a guarantee for up to 1 million cycles.’

Compared to traditional actuator types of this size, Kinetrol’s Model 60’s output torque, in double acting applications, is uniform across its operating cycle, facilitating more optimal sizing and providing a very compact solution.

In addition, Kinetrol’s spring design, for single acting applications, results in much lower torque output losses - further enhancing compactness and eliminating spring fatigue failure.

A technical data sheet for the new Model 60 is available on the company website.

The unit is featured in the company’s new look product catalogue which gives complete technical details on the full range of Kinetrol products.

Further information is available from Kinetrol and its extensive worldwide network of subsidiaries and distributors.

Compared to traditional actuator types of this size, Kinetrol’s Model 60’s output torque, in double acting applications, is uniform across its operating cycle, facilitating more optimal sizing & providing a very compact solution.

Tel: 01252 733838
Email: sales@kinetrol.com
Web: www.kinetrol.com
Maceplast UK has been supplying PTFE seals and machined components since 1998. Having successfully attained continuous growth along with a leading market position thanks to our highly dedicated and experienced team with a commitment to customer service and satisfaction. We offer complete sealing solutions, across a range of industries and applications.

Our parent Company, Guarniflon® Group, established in 1982 specialises in the production of finished and semi-finished products in PTFE. We have shown continuous improvement which has led to the Guarniflon® Group becoming a recognised worldwide leader, producing 7000 tons of fluoropolymers pa. We machine in excess of 2 million finished components per day in a range of compounds including NORSOK, FDA, USP and WRAS approved materials.

Here at Maceplast UK, we hold substantial stocks of both semi-finished and finished PTFE products in Virgin and compounded grades in order to provide an efficient and continuity of service to our customers.

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BVAA Member Premier Powder Coating is part of the OK Group - an additional service that saves customers time, creates another option when specifying manufactured or stock items from the Group, and brings additional quality and value aspects to the work of industry colleagues in metal fabrication and manufacture.

Demand for this service has surpassed even our expectations. PPC works independently of the group for many quality fabricators and manufacturers, (who offer our coating service to their clients), as well as daily production for Laser Ltd and Quickits Ltd to coat manufactured and off the shelf products.

Get in touch with our friendly sales team – we think you’ll be surprised how quickly your job can be turned around.

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AUMA is the world leader in electric valve actuators and gearboxes, supplying robust, reliable, single and variable speed modular actuators with sophisticated control and connectivity options, backed up with exceptional service support.

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ACE Technician Scheme
The ACE programme certificates operators for installation and/or advanced configuration, troubleshooting and repair. Card-carrying AUMA ACE Technicians can be part of your own organisation or your service partner’s staff, working hand-in-hand with AUMA UK’s head office in Bristol. AUMA UK’s website www.auma.co.uk carries an extensive technical support resource including video and step-by-step instruction, only accessible by accredited ACE Technicians and Service Partners.

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Quickits are a market leading manufacturing company specialising in the valve and actuator industry, widely known as manufacturers of the best valve mounting kits and fabricated brackets on the market.

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Stock products are supplied on a global scale, including a full range of high quality Worm, Declutch, and Bevel Gearboxes (in excess of 6000 in stock at any given time) Spring Return Handles and Switch Boxes – all available for same day dispatch.

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Rotork is a market-leading global provider of mission-critical flow control and instrumentation solutions for applications in the oil and gas, water and wastewater, power, chemical process and industrial markets. We help customers to improve efficiency, reduce emissions, minimise their environmental impact and assure safety. We solve our customer challenges from the initial enquiry through to product installation, long-term aftersales care and asset management.

Our unrivalled worldwide sales and service network provides a local Rotork contact point for customers in every industry:

Oil & Gas: Our products are designed for critical control applications where reliability is paramount, in applications ranging from upstream production, to pipelines, storage and distribution. Water & Power: Our products can operate in extreme conditions, helping to reduce emissions and improve water quality. Chemical, Process & Industrial (CPI): We help to optimise process efficiency, improve product quality and reduce waste, through automation and process control.

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Web: www.rotork.com

Westlock Controls has a global reputation in providing innovative solutions for networking, monitoring and controlling process valves since 1984. Our focus on technology and supplying reliable products manufactured to the highest industry standards makes us a preferred choice with the world’s leading process companies and a trusted partner developing even better solutions for the future.

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valveworldexpoamericas.com
Flexitallic, the global leader and manufacturer of static sealing solutions, has expanded its operations in Aberdeen, moving into larger premises to provide increased support to its growing North East client base.

From its new 4,600 sq ft base at the Wellheads Industrial Estate, Flexitallic is expanding its gasket stockholding and workshop capabilities, as well as hosting a dedicated Bolted Joint Integrity Training Facility.

The move has been facilitated by demand from offshore oil & gas clients, in particular, Operators and Original Equipment Manufacturers (OEMs), which are increasingly calling upon Flexitallic’s bolted joint integrity expertise, preferring to work directly with the manufacturer instead of distributors.

Flexitallic works in close collaboration with these organisations to deliver bespoke solutions to challenges including corrosion, high-temperature applications, fire safety, fugitive emissions, and the impact of temperature changes across critical equipment connections.

Part of the global Flexitallic Group, the expanded Aberdeen operation is part of a network of branches in industry-focused locations including Teesside, Merseyside and South West, along with its UK headquarters and manufacturing base in West Yorkshire.

The branches act as the distribution arm for Flexitallic’s sealing solutions, including its comprehensive range of gaskets designed and manufactured to meet the requirements and safety-focused operations of sectors such as oil & gas. In addition to its expanded stockholding, the new branch also provides 24/7 access to commercial and technical support and complimentary delivery service for its clients across Aberdeen.

Supporting its product range is Flexitallic’s extensive technical expertise, which is utilised to provide expert advice and training to its clients. The Aberdeen branch will host workshops, industry discussions, Flange Management & Bolted Joint Integrity Calculation Software demonstrations, as well as specialist training using its Flange Assembly Demonstration Unit (FADU) and ECITB Accredited Training rigs encompassing various gasket specifications and tightening methods.

Sam Bradley, UK Sales Director at Flexitallic said: “The demand for our industrial gaskets and sealing solutions has led to the need to expand our operations in Aberdeen, enabling Flexitallic to provide a more comprehensive bolted joint integrity service to our growing client base. Our clients share our view that gaskets are more than a commodity item and want a supplier that can provide technical expertise, support and training alongside innovative products.

Our new larger branch enables Flexitallic to better serve the Aberdeen market and work with clients to find fit for purpose solutions to issues such as corrosion, and thermal cycling of equipment.

We can also provide a range of bolted joint integrity training and demonstrations in our new dedicated training suite, which further supports our clients’ preference to work directly with a manufacturer that has a broad and expert understanding of bolted joint integrity.”
The first rule of Customer Service is - you don’t talk about Customer Service.

OK, we do – but we don’t want our customers talking about it.

We know that when we deliver what was ordered, to our high quality standards, then there’s nothing else to talk about – except the next order. At Laser Limited the main component of service is control.

Engineering products are always part of something larger, something that has a planned schedule for lead times, and ultimate deadline deliveries.

Many of our regular and long standing customers were previously let down in some way, by suppliers who just didn’t understand their essential part in the greater scheme of things.
We are fully aware of our responsibility in that chain – so we invested in state of the art Fibre Tech Lasers and the most accurate folding machines, so we knew we had complete control of the process.

The OK group then invested in Premier Powder Coating so that manufactured parts don’t have to leave the site to be finished.

So where to next?

We’re on a mission to make sure all our customers are fully informed about the range of materials and possibilities that Laser Cutting and Folding can bring to their operations – with full design support to bring their ideas to life and offer up the most intricate and accurate fabrication services that could improve and develop their products.

As soon as it is safe to do so, we will be delivering something new to all our customers and all those who register their interest by email – or give us a call to reserve a sample pack.

As soon as it is safe to do so, we will be delivering something new to all of our customers.
What do a fox and an electric valve actuator have in common? A lot, if the actuator in question is AUMA’s brand-new PROFOX. Like its namesake, PROFOX is not only cunning and adaptable but also extremely hardy. AUMA’s more than 50 years of experience developing and manufacturing electric actuators has yielded a high-performance actuator series with exciting new features and an excellent cost-benefit ratio.

Aimed at applications requiring fast and precise positioning, utmost flexibility and future-proof interfaces, the smart and compact PROFOX series is suitable for all industry sectors, including water treatment, combined heat and power plants, process industries, and shipbuilding.

Cunning. Built-in intelligence makes PROFOX equally suited to both simple open-close duty and challenging modulating applications. Motor speed is adjustable, ensuring fast and precise positioning without overrun. Soft start and soft stop functionality increases valve lifetime.

Adaptable. AUMA PROFOX actuators work with gate, butterfly, ball and globe valves. There are multi-turn versions for torques of 10 – 100 Nm and part-turn versions delivering 32 – 600 Nm. A linear actuator will follow soon. Modular design ensures flexible configuration, rapid delivery and consistent operation.

Hardy. The PROFOX series is engineered and built in Germany – and designed to last, even under the toughest process conditions. High-quality metal housing with IP67 protection (IP68 optional) and AUMA’s unique corrosion protection, which meets the highest C5-M/C5-I requirements of EN ISO 12944-6, ensure that PROFOX actuators have a long life at temperatures from –30 °C to +70 °C.

PROFOX actuators are simple and easy to use. Installation and commissioning are fast and convenient, using either the integral pushbuttons or an intuitive app. The FOX-EYE indicator light and a position indicator on the housing clearly show the actuator status at any time, even from a distance.

“The new PROFOX actuator series is set to lead the market thanks to its unique combination of features,” says AUMA product manager Christoph Edelmann. “It offers unprecedented intelligence, precision, efficiency and flexibility at a very attractive price.”

There is much more information on AUMA’s dedicated PROFOX website www.profox.auma.com
March 2020 saw people around the world preoccupied with the daily news and tightening restrictions surrounding Covid-19. However, the manufacturing and services teams at Severn Unival’s Brighouse facility refused to let the evolving situation distract them from urgent and time-critical customer work.

**Meeting the ice-road deadline**
An ice-road waits for no one, so Brighouse engineers had their work cut out ensuring six butterfly valves were ready to reach a north Russian LNG plant before the spring melt.

The order comprised four 20” ASME 300 and two 16” ASME 900 double flanged short pattern triple offset butterfly valves. The Brighouse team designed, manufactured, assembled and tested the valves in-house, comfortably shipping them by the mid-March deadline.

Manufactured in CF8M with electric actuators, these control valves surpassed the customer’s Class IV leakage requirement, achieving the more challenging ‘Class VI or better’ standard.

**An urgent job for a UK gas terminal**
The engineers’ resilience was put to the test again following a valve-related unplanned shutdown for a major UK gas terminal on Sunday 22 March.

Severn Unival’s UK Service Manager, Ian Kenworthy, led the response. He inspected the valve in situ on the Sunday, before assembling a team on Monday 23 March to design a new gland clamp arrangement.

“The issue related to a 10” butterfly valve: four gland studs had sheared,” Ian explains. “No gas was leaking, but a rapid and effective technical response was required to ensure the plant could get back online as quickly and safely as possible.”

Despite the challenges posed by social distancing, design calculations were completed and approved that day. Manufacture began immediately, wrapping up on the Wednesday afternoon. By Thursday evening, the plant was operational again and the customer spoke highly of the “hard work, ingenuity and tenacity” displayed by the team.

David Brennan, MD of Severn Unival, states: “The engineers in Brighouse deserve a huge amount of credit for helping the customer resolve this issue, especially as they were just getting accustomed to the new working conditions related to Covid-19. Ian and his team pulled out all the stops, and the customer was full of praise. This underlines the strong work ethic that I’ve witnessed since joining Severn.”

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**Shop floor staff remain focused on time-critical customer needs at the height of Covid-19 restriction rollout**

Severn Unival meets complex LNG and gas terminal valve requirements

Tel: 0845 223 2040
Email: sales@severnglocon.co.uk
Web: www.severnglocon.com
TUV SUD National Engineering Laboratory designing large test facility for the water industry

TUV SUD National Engineering Laboratory (NEL) is currently in the process of designing a very large test facility for the water industry. As part of this project NEL are looking to develop a business case to obtain funding to build the facility. To develop this business case NEL are exploring what other industries might be interested in such a facility, in order to gauge what the potential utilisation may be. One of the applications identified was for testing very large valves for the valve industry.

The test facility base design currently has the ability of connecting pipework up to 1000mm in diameter. It will have a system pressure of approximately 5bar and will be able to flow water at rates up to 800l/s, giving an internal flow velocity of 1m/s in a 1000mm pipe. NEL is currently at the design stage, so if there was a need for higher pressures, higher flows, or larger pipework, this is something that could be modified there was sufficient interest. The intention is to undertake Cv testing, new product development testing, at full scale, therefore meeting TRL level 4/5, etc.

NEL wish to engage with the Valve industry to gauge whether there would be any interest in using such a facility and whether the current design specification meets the industry’s needs. To this end if access to such a test facility would be of interest to you or your company please contact Dr Carl Wordsworth on carl.wordsworth@tuv-sud.co.uk

TUV SUD National Engineering Laboratory designing large test facility for the water industry

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New MD for Severn’s engineering and product supply businesses

David Brennan’s appointment will maximise synergies between Severn Unival and Severn Glocon Aberdeen as the businesses enhance existing valve population performance.

Severn Glocon Group has a new Managing Director for its Severn Unival and Severn Glocon Aberdeen businesses, following the transition of former leader Colin Findlay to Group CEO.

David Brennan, previously MD at Probe Oil Tools in Great Yarmouth, has stepped into the role which covers Severn’s Brighouse and Aberdeen facilities.

Having also held senior positions at Weir Services and Rolls Royce, David brings a wealth of leadership experience related to energy industry services and specialist engineering.

Less than 100 days into David’s tenure with Severn, the Covid-19 crisis broke. Colin Findlay says the calm and effective manner in which David continues to steer the two businesses is testament to his strength, commitment and skill.

Both locations are maintaining steady output with staff either working from home or observing social distancing if they are needed on site.

“These unprecedented and unusual times are testing for us all, so resolute and supportive leadership is essential,” states Colin. “David has quickly shown an ability to think on his feet, devising practical solutions to keep our staff safe and our businesses operational.

He has already built good relationships with customers and suppliers, which plays a vital role as we manage expectations and throughput dynamically on a daily basis.

David inspires confidence in me, our customers and our Aberdeen and Brighouse teams.”

David is responsible for the financial performance of both Severn Unival and Severn Glocon Aberdeen.

One of his goals is to maximise synergies between the two businesses which deliver continual performance improvement for existing valve populations of North Sea platforms and other established plant worldwide.

Foundations he put in place before the Covid-19 restrictions have ensured communications between and within the businesses remain strong and effective.

“We might be working differently at the moment, but I’m determined to deliver on my targets and on my promises to the teams in Brighouse and Aberdeen.”

David states. “By communicating frequently and honestly with customers, employees and suppliers I’m certain that we can make good progress despite the challenges.

Our staff regularly demonstrate tenacity and ingenuity in the way they meet complex and urgent customer requirements.

Applying the same principles now will help us not just survive but thrive when we emerge from the Covid-19 restrictions.”

Severn Glocon Group enables oil and gas operators to maximise the safety and profitability of production via specialist businesses offering a wide range of valves and associated services.

Severn Unival operates globally, providing advanced control and choke valve engineering services, testing and manufacture to improve the performance of existing valve populations.

Severn Glocon Aberdeen focuses on the management, maintenance and testing of mechanical, isolation and safety valves for North Sea valve populations.

It holds an extensive stock of replacement valves for rapid turnaround during critical shutdowns.

Severn Glocon enables oil and gas operators to maximise the safety and profitability of production via specialist businesses offering a wide range of valves and associated services.
Surprisingly, Kate’s first love is not Quickits.

She sights QK as “the best job I’ve ever had”, but the glamour of the internal sales office would be given up in an instant, if she could spend all that time with Philomena - the now 22 year old equine companion she has had since childhood.

The love of horses was instilled by Granddad Horace; a pit man born in 1921, who introduced the 3 year old Kate to Pit Ponies, being brought out of the darkness as mines closed, following the Strike of ’84/’85. Feeding apples to the ponies, which were put out to pasture still needing blinkers in place, led to a lifetime dedication to all things animal – but especially horses.

Kate became a competitor in the show jumping world - encouraged and supported throughout by Horace Yates. That dedication, together with the disciplined determination needed to care for, train and competitively ride, has given Kate an edge in her job as Internal Sales Manager at Quickits.

Nearly eight years after joining the firm, Kate knows all there is to know about controlling an efficient operation, and understanding her customers needs.

“Nothing happens by its self, I know I have to do the same basic tasks day in and day out to ensure I keep my customers and my sales team happy – while always being ready to turn on the spot if needed” she told me.

“Managing expectations, so the customer knows exactly what is possible, while at the same time doing everything you can to deliver what they need, when they need it.” Kate continued: “Nine times out of ten, there is never a problem. From each of my sales team handling 60 plus calls per day, while taking 35 to 40 orders in the same working hours, right through to the warehouse and high performance delivery team, it all works extremely well.

But there is always a percentage of ‘different’ requests or ultra urgent projects. It is typical of the process industry, which covers so many production and manufacturing sectors, to always be looking for a different solution; an innovation they have come up with that needs bespoke mounts or brackets, a solid reliable product to pull it all together, or upgrade what they already have to cope with a new application – and of course the support they need with maintenance and replacements.”

This member of the QK Team is as down to earth and pragmatic as you would expect from a lass born five miles down the road from where she now works – and she does make it work.

The most popular products, especially for the company’s partners, are Valve Mounting Kits and Fabricated Brackets – but the whole range of in stock items including over 6000 gear boxes at any one time, switchboxes, chain wheels, spring return handles and locking devices are constant favorites with process engineers.

However well managed, there’s always a greater satisfaction in exceeding expectations and delivering a service customers haven’t been able to find elsewhere. “There’s a great atmosphere when you can see the company and the Group as a whole growing.” Kate is on a roll now.

“The addition of Powder Coating to the group is another easy add, something that used to be offered as an additional service which as become a no brainer for a lot of our customers now it is done on the same site that brackets and extensions are
fabricated. feel I’m being spoiled at QK because all the growth and forward planning means there’s always something new to talk to customers about.”

“Right now we are supplying into the healthcare sector essential bespoke manufactured and powder coated equipment brackets for medical equipment – the whole group is proud we can contribute to the fight against coronavirus – but our regular and increasing numbers of customers in other essential sectors, such as oil and gas, water, food – and all our distributors and partners who service those same sectors, still need looking after with as much care and attention.”

Kate’s pride in her company and colleagues is obvious, it’s a passion for getting customer service right. “Of course we have great engineers, precision machinists and so on – but where would anyone be without customer service!”

Kate and her team are ready to take your calls, your orders and find you all the advice you need – in the unlikely event Kate can’t answer a query, there’s always someone at QK who can.

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www.bvaa.org.uk/login-here.asp
It was A God’s* workshop, Saturday, at ten to 5†, and The Arch Angel (Probationary) - let’s call him Gabriel - was about to tidy God’s bench.

† Author’s note: Time’s a difficult concept for an omniscient, omnipresent, omnipotent supreme being, let’s just run with it for now.

Gabriel: Aghast at the mess. ‘Oh! My God? What shall I do with these leftover bits?’

God: ‘Gabriel, I like what you did there, very catchy.’

Gabriel: ‘Yes my God. But about the bits sire?’

God: ‘Well, what do we have left? I’m sure I used all the important bits and accommodated most of mankind’s professions. I am omniscient you know?’

Gabriel: [under his breath, ‘So you keep saying.’] More audibly, ‘From here, I’d say, a big mess?’

God: ‘Gabriel, I can hear your thoughts too you know. And just remember how the vacancy came about.’ God thought, then said, ‘Well, I’ve created the hunter-gathers - they were first - then the farmers, the nurses from leftover bits of angels, the carpenters, the engineers - I’m especially proud of those - lawyers and so forth.’

Gabriel: ‘It’s mainly oddments of talents sire, a few obscure skills and knowledge, bits and bobs, a mish-mash really. Also, I thought you had another lot in mind for the original profession? And weren’t you leaving the lawyers to Satan?’

God coughed, then wafted a finger to erase the memory of the ‘original profession’ from Gabriel’s mind: ‘I was, but Satan’s terribly busy already – I already gave him the politicians.’ He smiled: ‘And the journalists. After all he’s been very naughty! God pondered, then smiled to himself again... ‘Well, Mr Arch Angel Probationary, what would you do?’

Gabriel looked the look of a benevolent celestial being that had just been given a pallet load of 5000 piece jigsaw puzzles... unboxed and in a bin bag. Then looking at the celestial clock ticking closer to five, he said: ‘Well by definition you’ve done everything! There’s nothing left.’

God: ‘Gabriel, come, come, how wrong you are. Work the problem.’

Gabriel, rummaging: ‘Well, there’s a ton of leftovers from the service package. “Care,” “attention,” “a desire to serve” and so forth. There’s a bit of Policeman, and politician – you know the nicer bits - some oddments of lawyer, accountant, secretary, some very fines pieces of bureaucrat – the helpful kind?’

God: ‘Go on.’

Gabriel: ‘Historian, some engineering, there’s a bit of clairvoyant – hmmm, the warranty has expired though - arbitrator, some IT expertise although it’s a bit rusty, tact, diplomacy, quite a bit of entertainer and forbearance left over, oh there’s even a few bits of counsellor and confidant, and a colossal amount of patience!’

God: ‘Gabriel, what trade is there where all that might all that be useful?’

Gabriel thought hard: ‘Oh! I’ve got it! Trade Association Manager Sire?’

God: ‘Exactly Gabriel, exactly.’

Gabriel: ‘And their patron Saint sire – you did say every trade had to have one?’

God sat back, closed his eyes and contemplated his large Ambrosia, with ice and a slice. He beamed: ‘Gabriel, let it be Jobe.’

*Insert deity of choice, or indeed none. The intention was to be humorous and no offence intended.
Westlock Controls has always been at the forefront of innovation in industrial valve monitoring business. With our recently released Digital EPIC D200, Westlock has achieved the impossible again: a 4-20 mA position transmitter with industry leading HART® communication, one-touch calibration, and optional end-of-stroke switches all packaged together with our patented Beacon indicator and state-of-the-art Tunnel MagnetoResistive (TMR) sensing technology. D200 not only provides more data on your critical valves but also, does so by attaining sizable savings on your annual budget.

Over 20 years ago, Westlock pioneered the use of Hall Effect sensing for contactless tracking of valve position. Since then, valve positioner and transmitter manufacturers globally have adopted this technology. However, Hall Effect sensor has its limitations with no Beacon indicator or end-of-stroke sensors within same enclosure as there are no moving connections between the device and the valve. We have solved this problem by integrating TMR non-contact sensing technology on a mechanical shaft that fits a Beacon indicator and end-of-stroke switches without compromising our million-cycle high accuracy and reliability promise.

Westlock’s Digital EPIC D200 has it all – global hazardous location approvals, 4-20 mA transmission over HART®7, quick and intuitive one-touch calibration, Beacon indicator, and optional end-of-stroke switches! (Yes, even our very own hermetically sealed MAGNUM proximity switch!) Nevertheless, we have taken it a step further. You can enhance D200 with our advanced Falcon V solenoid valves. Designed and manufactured in the USA by Versa, Falcon V solenoid valves are engineered with precision to be integrated with our transmitters. Rest assured, our Digital EPIC D200 is a smart choice to operate your plant at maximum efficiency.

Digital EPIC D200 combines the advantages of 4-20 position transmission with end-of-stoke switches offering redundant feedback in critical valve applications. A typical process plant has thousands of mechanical or proximity valve monitoring switches in operation. With the advent of universal I/O (points are programmable to DI/DO or AI/AO), connection for transmitter is same as a traditional switchbox.

A signal transmitter can replace each pair of switches thus, freeing up thousands of I/O connections for future plant expansions. D200 saves up to 80% upfront cost due to less number of wires and termination, less marshalling space, quick calibration and commissioning, less HMI/DCS tags and DCS configuration, and overall installation time. Costs to maintain valves and rotary equipment can take up a large chunk of a plant’s maintenance budget.

Digital EPIC D200 not only provides more data on critical valves via HART®7 than a traditional switchbox but also, saves significant life cycle costs over it.

Westlock’s Digital EPIC D200 is a next generation position transmitter that incorporates advantages of TMR non-contact sensing, 4-20mA HART®7 communication, highly visible Beacon indicator, and end-of-travel redundant switches to provide crucial data on your critical valves and peace of mind to you. To learn more, visit us at www.westlockcontrols.com.
WSG Provalve Demonstrate the Power of Digitalisation

Utilising WSG Asset Integrity Management (AIM) software - WSG Provalve are going digital.

Following successful roll out and development of AIM to add to WSG’s already extensive service line offering, WSG Provalve have taken the step of integrating this solution into their already successful valve repair business.

Implementation of AIM to the WSG Provalve business, enables WSG to offer clients the unique ability to view, log, and track all relevant data attributed to any activity or operation of the valve repair life cycle.

The company has built a well-respected reputation over the last 13 years, exceeding the needs of customers and has remained committed to providing fantastic value at the very highest possible industry standards through the expansion of a highly skilled and dynamic workforce.

This dedicated team enables the delivery of expert repairs with regard to all types of Globe, Control, Safety & Relief and Isolation Valve Products.

AIM already offers WSG client’s full life cycle record keeping across existing WSG service lines on client assets and equipment.

AIM enables WSG and their customers access to real time data which aids transparency and communication between WSG and their clients during engagement.

WSG software has been developed in-house by their own specialist team of industry experts, enabling total control over functionality and customisation, allowing WSG to listen and adapt to client requirements.

Each valve, actuator, gearbox or control system that comes to WSG Provalve or is serviced on-site is logged into AIM and given a unique ID number.

WSG apply a unique identity tag containing a QR code which can be scanned by WSG Valve Technicians to immediately display specifications, history, status and inspection frequency.

The ID associated with the valve’s unique number can easily be renewed or replaced if it becomes detached or damaged.

QR coding speeds up reference times and eliminates input errors.

The equipment used is ATEX and IECEx Zone 1 certified, IP65 Dust and watertight and six foot drop resistant.

Suitable for temperatures ranging from -10 to 50°C, the AIM tablet is specially selected for all WSG working environments.

Each WSG Provalve technician now has access to their own device making the seamless transition to a paperless workshop operation now achievable.

WSG Provalve have already transferred existing valve and equipment history to the new AIM database and clients will start to see a change in the way that new information and reporting is delivered to them.

WSG’s ambition is to get one step ahead of the curve and prevent delays and downtime during outages.

Inevitably there are many tasks required in a limited timeframe and now WSG Provalve can survey, store details and log each valve still in situ giving the added bonus of capturing several orientation shots of the equipment for future reference.

When a valve arrives at a WSG Provalve workshop, it is simply scanned and photographed for record keeping, work can commence free of bottle necks and duplication of paperwork tasks.

All documentation such as test certificates, condition and service reports are available to clients in just a few clicks.
Service intervals, reliability and status reports are now state of the art and will continue to improve based on communication and feedback from clients.

WSG Provalve are proud of their record in quality and innovation and continue to work to their goal of being not only the most reliable valve repair specialists but also the most forward thinking.

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2020 is already shaping up to be one of the most successful years for Oliver Valves in their 40-year history.

In February, the globally successful valve manufacturing company beat some stiff competition from many competitors to win an incredible order in excess of £10 million for a major international EPC company based in the Middle East.

The order was for an excess of 1200 Double Block and Bleed valves which are to be stationed out in the Arabian Gulf.

This historic order for the Oliver Family of Companies will run for approximately one year, with deliveries being gradually sent to the Middle East, until completion in February 2021.

Richard Bedford, the Sales Director at Oliver Valves states, “this award is the culmination of months of hard work from the Sales, Engineering, Purchasing and Finance teams” he continues by thanking all the individuals involved for their ‘commitment and hard work.’

Colm Kane, Managing Director of the Oliver Family of Companies, was quick to credit the team at Oliver’s as one of the main reasons for its success.

The motto at Oliver’s of ‘it can be done’, Colm says “runs true within every department in the organisation,” and an order that big shows that ‘it can be done’.

With over 350 employees, 100 of whom have each given over 10 years’ service to the company and 3 of them reaching 35 years this year, just shows how loyal and committed the Oliver team is to making their business a success.

The Managing Director, also indicates that this order is supporting the company’s ‘growth strategy’ as they are heading for an impressive ‘40% increase in business from last year’s financial figures’.

Oliver Valves is growing at a rapid rate and with their continued hard work and commitment will hopefully see many more orders like this one for the company.
The Latty Group celebrates its 100th anniversary this year

Created in 1920, the family business managed by Mr Christian-Xavier Latty, grandson of the founder is now, a century later, the French market leader in industrial sealing. Latty's products ensure that complex industrial processes stay perfectly sealed and today have become indispensable in many sectors such as food processing, petrochemicals, mining and nuclear industries. The Latty Group has built a reputation for compliance with the strictest quality and safety regulations that guarantee product reliability, as well as for its solid know-how in the design and R&D of its sealing solutions and the constant evolution of its manufacturing processes. In a very competitive environment, Latty makes the difference by staying focussed on service and listening carefully to its customers, as only a medium-sized company can, while investing each year 5% of its turnover in research and development. In addition, the company has its own test laboratory enabling it to test its products under optimum conditions of use before market release or test them on the customers' equipment for qualifications or approvals.

The Latty Group in France consists of a head office located in Orsay in the Paris region and a production site and R&D lab based in Brou in the Eure-et-Loir department. In addition to the sales force, made up of technical sales engineers and sales managers, more than 160 people at Latty work every day to serve its customers, not counting the highly responsive local network of around a hundred distributors, cutters and multi-service competence centres.

The Latty Group makes a large part of its turnover by exporting through its 10 subsidiaries, some of which have their own manufacturing unit or multi-service competence centre. The medium-term objective is to increase its share in the export markets, in particular by creating new subsidiaries while maintaining the strong level of activity in France. In this context, the group has announced the opening of two new subsidiaries in India and Brazil.

Mr. Latty speaks about the strengths of his company: One of the Latty Group's strong points is undoubtedly its ability to listen to its customers. Every business is different, every client is different with its own constraints, whether related to the environment, the size of the project or the deadline. The technical and commercial teams are there to ensure that customers benefit from this century of experience in industrial sealing when designing the appropriate solution in each case. The proposed product must meet the customer's expectations in every respect.

Associated services: research, development and testing
Latty's other strong point is to have a research, development and testing department located in its production site in Brou and to be able to support client manufacturers in the process of approving their equipment in 1/3 compliance with the relevant standards and directives, particularly for valves and fittings.

Latty is recognized for the quality and performance of its ranges of braids and sealing rings and more particularly for its FILCOAT process (double impregnation of threads). All the research we do in the development of fibres and lubricants enables us to offer a range of about 50 different qualities of braids with more than 70 types of impregnation and 120 varieties of yarns (aramide, PTFE, graphite, carbon, etc.) to meet all our customers’ applications.

On a 500 m² platform with more than 15 test cells equipped with precision measuring equipment (pressures from vacuum to 650 bar, temperatures from -200°C to 650°C, helium mass spectrometers, a 5,500 kN press, etc.) the company is able to accommodate equipment of all sizes to meet the requirements of our customers and also those of the many manufacturers with whom we have developed partnerships.

The equipment approved on these test cells can be used directly in specific applications or integrated by manufacturers in the production of industrial pumps or valves. To date, more than 100 test reports confirming these standards approvals have been obtained.

Sensitive sectors
All industrial sectors are concerned by industrial sealing but not all leaks have the same consequences. Although working in all industries, the Latty Group particularly addresses the needs of industries sensitive to the reduction of greenhouse gases (ISO 15848), the safety of people and the security of equipment and industrial sites. In the field of industrial valves, for example, the design of new packaging has made it possible to reduce the leakage rate of fugitive emissions, linked to volatile organic compounds (VOCs), by a factor of more than 10,000.

In the nuclear field, the Fukushima feedback has led to stricter requirements on all materials used in the plants. To meet these requirements, the Latty Group has developed new products for industrial valves, rotating machines, pressure vessels and piping, including packaging qualified for accident conditions with radiation resistance up to 4000 kGy and EPDM-based elastomer seals up to 1700 KGy. Mechanical seals have also been developed and qualified on new plants meeting post-Fukushima requirements.

Mr. Latty concludes: “Today’s requirements are very different from those of 1920. Over the course of a century, the Latty Group has lived through the industrial revolution of the 20th century, always developing quality products that are increasingly innovative and efficient. Originally, Latty braids were invented to seal the shaftline outlets for shipbuilding. Today, Latty seals can be found in equipment in all sectors of industry. They respond to the continuously evolving demands of industry and strive to better preserve our environment.”

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Forging Versus Castings, why we Forge our own valve bodies

Introduction
The worldwide introduction of wind, solar power and other renewables create an increasingly flexible demand on gas fired power stations to balance the grid.

To operate in a reliable, quick, modulating and start/stop regime, some improvements are necessary.

To start and to stop a modern CCGT installation takes time and cannot be done instantaneously.

The gas turbine needs to be warmed through as well as the rest of the power plant, the HRSG, (Heat Recovery Steam Generator) downstream of the gas turbine, the interconnecting steam pipework, the steam turbine and all other balance of plant items.

This all must be done as quickly as possible to limit the starting costs and to supply as soon as possible to the grid.

In the European markets the driving factor is high fuel costs, reducing the need for full speed no load, however in the USA the driving factor is to reach emission values as soon as possible.

For all CCGT plants the demand for being reliable and the need to be able to start the installation, to supply to the grid, is the single most important driving factor.

The AVS Solution
Advanced Valve Solutions has a bespoke package of dedicated products to solve these problems, based on our specific and extensive experience in these types of operating regimes.

With this package in place, it leads to reduced maintenance costs, to reduce starting time and to upgrade the reliability of you existing installation.

With many years of experience and a group of high qualified European manufactures supporting our performance, we deliver a complete solution.

Forging Vs Casting:
The vast amount of valves today are manufactured via casting, however Persta believed a Forged body is the solution for the market.

This Bodies are forged in house, with only the highest quality materials and processes.

Due the fact all forgings are produced in house, the high standards expected from our customers can be delivered and monitored from start to finish.

While castings are the standard form of valve body production, and allow larger products to be produced, there is greater scope for imperfections and inclusions within the casting process. These imperfections can lead to failures further down the lifecycle of the valve.

The nature of forging excludes the occurrence of porosity, shrinkage, cavities and cold pour issues as seen in the casting process as mentioned above.

Forging offers uniformity of composition and structure. Forging results in metallurgical recrystalisation and grain refinement as a result of the thermal cycle and deformation process.

This strengthens the resulting steel product particularly in terms of impact and shear strength.

Forged steel is generally stronger and more reliable than castings and plate steel due to the fact that the grain flows of the steel are altered, conforming to the shape of the part.

With this in mind, for thermal cycling plants, the thinner materials will allow for faster start ups and shutdowns, which results in less thermal stresses in materials.

A forged valve can be made much thinner and stronger, allowing for this demand in stop start operation that we are seeing today.

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E-mail: sales@samsoncontrols.co.uk · Internet: www.samsoncontrols.co.uk
Ashley O’Loughlin

Ashley O’Loughlin is Maher’s new dedicated contact for the UK Valve industry.

Ash has been with the company for just over 2 and a half years, up to now working with our clients in the specialist fastener industry.

Ashley arrived at Maher in September 2017, having spent the previous 3 years working in the yellow metals industry with both Columbia Metals and Leeds Bronze serving a variety of industries across the UK and Europe.

Outside of work, Ash is a keen fitness enthusiast and a fixture at his local gym.

He is also a football fan, both organising regular social games for the Maher team and following his local Sheffield United, having recently switched his allegiance from boyhood favourites Manchester Utd.

Ashley said; “So far, I have enjoyed my time at Maher tremendously and have learned so much about Nickel Alloys, engineering and the fastener industry.

The team, right across the board are very motivated and a pleasure to work with. I am looking forward to engaging with the BVAA members over the coming months and I hope to meet as many of you in person as possible.”

Ash’s line manager, Bob Simpson commented “Ash has been so successful in meeting the high paced demands of the fastener industry with his dedication to customer service, we felt that he would be well placed to serve the UK Valve industry and the BVAA membership.

He has a solid knowledge of the materials we supply, and many others, as well as good grounding in basic machining processes. I am sure our valve customers, new and old, will find Ashley a pleasure to deal with.”

Maher are here to service your requirements for round bar in high-strength, high-performance alloys including Nickel Alloys 718, 625, K500, 400, 825 & 725, specialist stainless grades such as Alloy 286 (660 B/D) and Copper Alloys 833, 780 & CA104. We also offer in-house NDT, cutting and first stage machining including deep-hole boring, turning and trepanning. Our quality systems are fully certified to ISO9001 & AS 9100 rev D and Maher holds full JOSCAR Stage 2 accreditation for naval, marine, defence and security applications.

Please contact the team with your requirements; sales@maher.com and see www.maher.com for more information.

Maher are continuing to operate within UK government guidelines during the Covid-19 pandemic, please check our Linkedin (Maher Ltd), Twitter (@maherlimited) & Facebook (Maher Ltd) pages for up to date information.

Tel: 0114 290 9201
Email: info@maher.com
Web: www.maher.com
Halesowen, 20 March 2020 - Valve specialist Ultravalve, is enjoying exclusive UK distribution rights for Vexve’s eagerly anticipated and newly launched Vexve X™ valve range. The industry’s first ever complete product range of shut-off and balancing valves to feature integrated press fit connections.

The extensive Vexve X™ range features shut-off and balancing valves in both carbon steel, (suitable for use with EN 10305 thin-walled pipes) and stainless steel (suitable for use with EN 10312 thin-walled stainless steel pipes) in diameters ranging from 18mm to 54mm and is compatible with both M and V profile jaws.

The Vexve X™ range is identifiable by its turquoise body and is designed for clean media such as oxygen-free water or water-glycol mixtures, whilst the stainless steel version is grey and also designed for clean media in many industrial systems such as process waters, ethanol, methanol, water-glycol mixtures or Freezium.

Cost efficiency is achieved over the entire product life cycle since integrated press fit connections significantly reduce the number of parts needed and work phases required, whilst also reducing the risk of leakage.

The breadth of the range means that uniformity can be achieved by using purely Vexve X™ shut-off and balancing valves across an entire project, eliminating the need to use a selection of different manufacturer’s valves, with differing features, performance and application properties.

The optimised stem construction of Vexve X™ achieves modern insulation standards, breaking any cold bridge or heat bridge from the valve body, whilst ready-to-use form-cast insulation minimises heat loss and further speeds up installation.

The handle and control knob of Vexve X™ are made from composite making them easy to remove with no requirement for separate tools, whilst lockable settings allow easy adjustment and temporary shut-off without the need for re-measurement. The QR code is located in the valve handle, giving users easy electronic access to up to date product information and operating manuals.

The extensive Vexve X™ range features shut-off and balancing valves in both carbon steel.

Tel: 01384 411 888
Email: sales@ultravalve.co.uk
Web: www.ultravalve.co.uk
OEM International acquires UK’s Zoedale Ltd

OEM Automatic Ltd, part of the Swedish OEM International group, signed an agreement at the end of January 2020 to acquire the UK’s Zoedale Ltd.

Bedford-based Zoedale was founded in 1976 and is a specialist in solenoid valves and valve actuators. It has annual sales of £3 million.

The acquisition of Zoedale by OEM Automatic will enhance both companies and benefit both companies’ customers.

The companies will be able to take advantage of synergy between the product ranges to provide a wider product offering, increased technical expertise and improved stock availability.

“We are really excited about OEM Automatic’s acquisition of Zoedale Ltd. Because of the synergy between both companies’ product offerings within the pressure and flow sector, it means we can offer our customers and Zoedale’s customers a much broader range of products.

Not only will we be offering more products, we will be utilising both companies’ expert technical advice in order to provide the best solutions for all pressure and flow projects,” commented Richard Armstrong, Director at OEM Automatic Ltd.

Zoedale

Zoedale has a strong focus on service and technical support and carries extensive stock at its Bedford premises.

Amongst others, Zoedale represents ASCO, Sirai, Valpes, Omal, Bernard Controls and Peter Paul which manufacture valves and actuators for various process and industrial applications.

Some examples of where Zoedale-supplied valves and actuators are used:

• drinks dispensing machines – they need solenoid valves to make sure that that pint is measured accurately and that cup of coffee never overflows
• special effects – low lying ‘smoke’ in theatres and sports stadiums is produced by using solenoid valves to release cryogenic carbon dioxide
• equine hydrotherapy companies – they need actuators to ensure their water treadmills continue to function for horse rehabilitation
• automatic irrigation sprinklers on golf courses and in public gardens
• right across the food, drink and brewing industries (including companies such as Coca Cola, BrewDog, Longley Farm and Bakkavor) – numerous hygienic valves and actuators support temperature regulation, storage, dosing/mixing, filling/batching, and cleaning.

Zoedale is joining OEM Automatic to increase its technical support, broaden its product offering and continue to develop its expertise in the pressure and flow sector.

It is looking forward immensely to this opportunity for continued growth, and to be able to offer its customers an even wider selection of products.

In addition, customers will now have access to additional expert technical advisors across the two companies.

Zoedale will continue to trade from the Bedford base, with the same staff that customers know and trust.

The range of products and brands will be extended through this business development but customers can rest assured that those they have bought and used in the past will still be available.

OEM

OEM is one of Europe’s leading technical trading companies with 34 operating units in 14 countries.

The group trades in industrial components and systems for industrial automation, acting as an alternative for manufacturers to selling through their own companies.

The acquisition is expected to have a marginal impact on OEM’s profit for the current year.

“This broadens our product range and strengthens the offer to our customers in the UK market. We see a lot of synergy with our existing UK operation so this is a natural development for our UK business in the pressure and flow sector,” commented Jörgen Zahlin, President and CEO of OEM International.

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Successful project collaboration with Festo in the role of coordinator

With more than 80 products for professionals and amateurs, the successful car cosmetics company Alfa Car offers a large range of care products for cars. Alfa Car together with system integrator Arp Lučko wanted to fully automate all the process valves in their brand new plant in Croatia and so turned to solutions from Festo.

The two partners had defined three major goals: Alfa Car and Arp Lučko wanted to increase the capacity twenty-fold, fully automate the entire production cycle and at the same time design an explosion-proof production setup because of the potentially explosive conditions.

System integrator Arp Lučko suggested Festo as a supplier for these challenges, and won over Alfa Car.

The company demands reliable and perfectly protected systems that meet the high standards of its investors.

Many different media and a solution from a single source
In addition to water, quite a number of other chemicals such as glycerine, surfactants, oleic and acetic acids or alcohol and ethyl alcohol are transferred into the tanks and mixers at Alfa Car before being filled into containers as a finished mixture. This solution is also used for rinsing systems with water.

The experts at Festo designed a complete solution, ranging from ATEX-certified process valve units with sensor boxes SRBx and single-acting quarter turn actuators DFPD to valve terminals VTUG.

The experts combined the more than 200 ball valves from various manufacturers with suitable Festo automation components and connected them to the piping.

The final stage to complete the system was taken care of by the system integrator. This enabled the entire production setup, from the raw material to the filling line for finished products, to be fully automated.

Good and dependable cooperation
Arp Lučko had already worked on a project with Festo and was very impressed by the quality of the solution from a single source and the good cooperation with the local valve manufacturers. Another major benefit that Festo offers as a project coordinator is fast and helpful support around the clock.

This is the only way to achieve high-quality, lasting solutions that combine maximum productivity and a high level of process reliability.

“Festo took over the coordination with process valve suppliers and delivered a complete automation solution, from the process valve units to the valve terminals. It saved us lots of time and resources.”

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Convenience
Fit around the working schedule of the staff at your own business premises and at a location they come to everyday.

Save Money
The cost per delegate is typically less when compared to sending the same number on public training courses.

Quality Training
The professionals who lead our training days hold the highest technical qualifications and are vastly experienced in the valve / actuation industries.

Getting a group together allows all of the training and learning to be focused on the company and facilitates discussion on real and current examples.

Team Building
Encouraging group training can strengthen the team dynamic. A room full of delegates from different departments can encourage greater team work, awareness and understanding of each other’s role.

Prices start at £2,250.00* + VAT
*Please note this price is for members only.
Non-member price confirmed on application.

This cost includes:-
* Quality technical training
* Notes and course materials provided
* Valve & Actuator Users’ Manual for each attendee (worth £50)

BOOK NOW!
If you would like to find out more contact us for a no obligation chat:
☎ Telephone: 01295 221270  📧 Email: karen@bvaa.org.uk
Along with the rest of the UK manufacturing sector and its supply chain, Maher has had to adjust to the changes posed by the global Coronavirus pandemic. The business quickly formed a COVID-19 committee as the scope of the crisis became clear in the Far-east, one of Maher’s key markets.

The committee then identified several hygiene and distancing strategies, aimed at lessening the risk to employees & visitors at the Sheffield site.

As this is being written, almost all of Maher’s sales and support teams have established “work from home” routines and essential on-site staff have been instructed on additional measures to restrict the spread of the virus.

This plan was enacted within 48 hours of the UK government instructions to “stay at home where possible” in late March, thanks to continued investment over the years in our IT infrastructure and process, and our dedicated workforce.

The commitment to one of Maher’s core values, “People Matter” has been at the forefront of the company’s response to the emerging crisis, ensuring that none of the just under 100 strong work force is put at unnecessary risk.

Maher will continue to closely evaluate the UK’s response to the pandemic with the management teams in constant contact and holding twice weekly videoconferences.

However, in the meantime the company’s customers can be assured that Maher have a dedicated and experienced workforce, committed to ensure that the company offers continuity of service and supply to its customers, new and old.

The companies’ technical and quality team are committed to working flexibly with any health and safety restrictions put in place by our customers during this time.

As a long-established stockist and machinist of high-strength, high-performance alloys for Oil & Gas, Aerospace, Naval & Marine, Defence, Power Generation and other special applications, the team will be able to assist you with material requirements for Nickel Alloys, Copper Alloys and other special steel grades.

Maher’s in-house services include cutting, first stage machining such as turning and boring, precision machining, heat treatment & NDT.

Due to the stringent requirements of the industries Maher service, quality is fundamental to everything the company does.

The Sheffield based stockholder’s quality systems are fully certified to ISO 9001 and AS 9100 rev D and Maher holds full JOSCAR Stage 2 accreditation for naval & marine, aerospace, defence and security applications.

Supported by both customer and industry approvals, Maher delivers to the full supply chain, from OEMs to smaller machine shops. For more information, please visit www.maher.com.
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Test Bench for Control and Shut-off Valves

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List Price: 52.140,- €
Brexit Price*: 46.926,- €

* Valid for all customers located in Great Britain until September 30th 2020. Packing and delivery to Great Britain are included. Only available as shown in the basic execution.
Moontown Ltd specialises in the design and manufacture of spring energised seals

Moontown Ltd specialises in the design and manufacture of spring energised seals and associated components, in PTFE and other high performance plastics.

The company has invested in NORSOK M-710 REV 2 and API 6A Annex F sour fluid immersion testing approvals, as well as being ISO 9001:2015 approved.

Moontown’s technical team can assist in the correct seal design, and material in applications involving extremes of temperature, pressure, hazardous or aggressive chemicals. Moontown also offers a complete production service, made up of the following:

- Bespoke seal design service
- In-house PTFE billet production
- In-house spring winding
- In-house EDM facilities for tool making

Moontown’s capabilities range from 2mm rod seals to 2000mm piston seals, for applications in chemical, oil and gas, automotive, food and pharmaceuticals as well as a wide range of general engineering fields. These are complimented by a wide range of metal O, C and E seals, including spring energised resilient metal seals.

Tel: 01623 751 515
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未来领袖计划2021

BVAA欢迎提名2021（Cohort 5）届未来领袖

**什么是它？**

2016年推出，‘FLP’是BVAA的专属计划，它开发和培养其雇主认为具有潜在未来领导力的英国阀行业人才。

**它涵盖了什么？**

代表们将参加一系列个人发展课程，行业体验，安排技术和商业卓越演讲，免费的BVAA技术培训以及参观制造中心，R&D和工程卓越site，炼油厂，发电站等。以及一流的合作机会。BVAA还将支持第一年的专业注册。合格代表将获得由领导力与管理学院（ILM）认可的正式资格。

**它是什么时候？**

选拔面试将在2020年夏天进行，以期在2020年秋天开始计划。

BVAA将要求每位代表的成员捐款为**£1500+vat**。这仅部分覆盖了交付成本，并由BVAA补贴。
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Note: Dates to be rescheduled.

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