AUTUMN 2019 | **ISSUE 50**

BVAA

valveuser Magazine

AIV - Global reach with a local touch

Page 65 - Valve-kits Quarter Turn & Multi Turn Gearboxes

Page 10 - BVAA Golf Day never Disappoints

Page 8 - Spring Conference 2019

Page 7 - Future Leaders Programme Cohort 4

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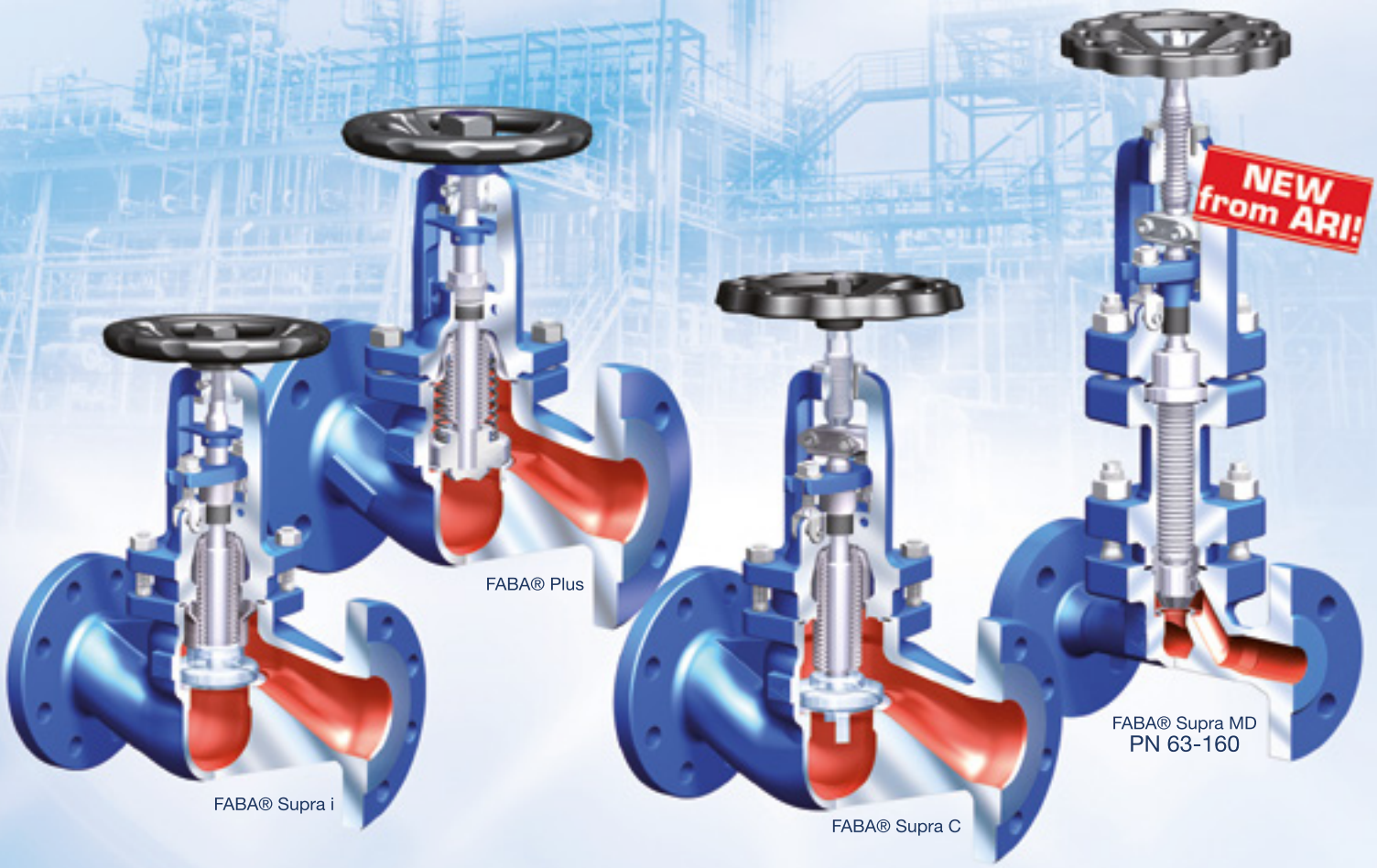

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VALVEuser® is a controlled circulation magazine, free of charge to genuine users of valves, actuators and related products and at the discretion of BVAA Ltd.

Cover Image: - Globally, AIV continues to deliver a wide array of the top valve brands - Pg: 43

Comment

By BVAA Director
Rob Bartlett

Determining Value

A short while ago myself and some senior members of the BVAA had an exploratory chat with a very large company on the potential for them to consider joining the Association.

For me, it was spookily familiar to most membership discussions we have.

You start with running through the gamut of services and gauging their reaction to what essentially sells itself. I'm paraphrasing but essentially it goes like this…

The Technical resource?:
'Yes that's invaluable. The ability to have on demand advice and guidance is very useful and we get solutions to problems we didn't know how to resolve. It's also very quick to deliver an answer or guide me to one.'

Training?:
'A fantastic opportunity. It has proven very valuable to have it from a well-known and recognised body it is and clear benefit to us. As a member I realise I'd get a substantial discount.'

Desktop exhibitions?:
'Again really helpful to us to make the right choices with emerging technology and meet the right people, some of whom I now meet regularly and speak with on a weekly basis for advice.'

Future Leaders Programme?:
'I never thought about it before but yes, I realise just how valuable this could be to us. It's certainly something we should explore.'

Networking opportunities?:
'Yes, the MOST important aspect. I would never have met some of my contacts without the BVAA's involvement and introductions.

We need to get more of our staff members involved with BVAA. In fact BVAA recently helped my company avoid £500k of consequential damages by helping us find urgently needed product for a shutdown. That it was BVAA that was asking for us really opened doors and elicited a swift response.'

So it's a No Brainer then?:
'Oh I'll go upstairs, but my boss wouldn't see the value in it.'

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Please complete the form and return to Barbra Homer - barbra@bvaa.org.uk
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Autumn | 2019

Introduction to Valves (**CPD Certified**) | Monday, 21st October

Introduction to Valve Actuators | Tuesday, 22nd October

Control Valves (**CPD Certified**) | Wednesday, 23rd October

Safety Valves (**CPD Certified**) | Thursday, 24th October

Valves Advanced Level (**CPD Certified)** | Monday 28th & Tuesday 29th October * (2 days)

PED/ATEX Directives | Wednesday, 30th October

Safety Integrity Levels (SILs) | Thursday 31st October

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.
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Future Leaders Programme - Cohort 4

A brilliant team building excercise at the second FLP session (Photo: Lattitude7)

On 10th / 11th June, BVAA hosted the Induction Day and first personal development (PD) session for the latest group of valve industry professionals to undertake the BVAA Future Leaders Programme (FLP).

However Cohort 4 will be the first to see their work recognised by the Institute of Leadership & Management, as a formal qualification. Rob Bartlett writes:-

'To maintain the quality in the individuals chosen for this prestigious programme, this year BVAA instigated a selection process involving interviews with myself, the FLP course leader Dr Martin Haigh MBE and Dave Godfrey, himself an alumnus of the very first cohort who has since been co-opted to the BVAA Board.'

'In addition to the usual psychometric analysis, we tested delegates further via the taxing interview, which included a series of objective competency-based questions. The outcome is that we have chosen what we feel is a very strong team going forward, an assessment since confirmed by the psychometric team-analysis.'

'I am absolutely delighted to report that thanks to the efforts of our course leader Dr Haigh, henceforth BVAA's FLP delegates will also have their work recognised as a formal qualification by the ILM.'

'Unlike previous years, there will be examinations, reflective journals and written assignments. They will be given an end-of-year project and we have also beefed up the personal development aspects still further, making it a very comprehensive programme indeed.' Rob concluded, *'We have seen each cohort embrace the programme and work extremely hard. One outcome is that many of the delegates have been promoted since joining the FLP, on occasion, more than once. The key outcome however is that we have better prepared these delegates for a career in the valve industry, with wider experience and improved skills sets, but also – crucially – seen the vast majority of these talented people stay in our industry, our ultimate goal.'*

A brainstorming session of personal obstacles to overcome

Newly acquired presentation skills being put to good use

BVAA Spring Conference 2019

If you weren't there, you missed arguably the best BVAA Spring Conference line up we've had in some years!

Papers delivered covered topics as diverse as the Apprenticeship Levy delivered by Chris Selby of Cquence Consulting, (*did you know you can benefit hugely irrespective if you're paying the levy or not?*), two highly informative papers on Internet of Things/ Condition Monitoring from our own BVAA members Mike Devrell (Rotork) and Paul Turner (Imtex), and a paper on Business Development for the process sector (*a surprisingly large and buoyant market we were advised*), by Debbie Broun of Protel.

After lunch we had an update on BVAA's Business Development Activities (*inc a short session on building a winning company culture*) from Zoedale's Tim Guest, an update on Brexit and the unholy row (*in potentia)* looming on Rules of Origin by Mark Norris and Amy Brooks of BEIS, plus our usual Global Market Forecast from Jeremy Leonard of Oxford Economics and the Oil & Gas Tracker by Matt Loffman of Westwood Energy.

We rounded the day off with a paper on the free help available through Local Growth Hubs by Lisa Ashby-Dowling of Liverpool LEP.

That's a pretty hefty and comprehensive programme for a relatively small industry sector! You also missed a cracking dinner and a very lively comedian! All papers delivered (*where available*) are downloadable from the Members Only section of the BVAA website.

Many thanks again to our generous sponsors:-

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BVAA golf day never disappoints

It wouldn't be a BVAA Conference without the obligatory golf day, and our conference venue Formby Hall really does have the most fabulous course.

Blessed with the usual brilliant good weather, the golf was challenging on a very dry, bouncy course, but a fun day was had by all – well nearly all.

Nearest the Pin was Ross Cunningham (M Seals) and Longest Drive was Alan Weetman (Steam Plant).

Third place – *astoundingly!* – went to the BVAA Team of Dave Martin, Howard Mutters, Tom Bartlett and BVAA Director Rob Bartlett (75pts) – the BVAA Director will never shut up about that now! Second place (82pts) went to Andy Will, Peter Burnett (Heap & Partners) with Ross Cunningham (M Seals) and Stuart Lemon (Elite04).

Proud BVAA Cup winners with 85pts were however Derrick Mackenzie, Roddy Philp (HSP) with Dean Holroyd and Mark Topliss (KT Hydraulics). Well done all!

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BVAA Training Programme Aberdeen

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Aberdeen Courses | 2019

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- Control Valves (**CPD Certified**) | Tuesday 26th November

- Safety Valves (**CPD Certified**) | Wednesday 27th November

- Advanced Valves (**CPD Certified**) | Thursday 28th November

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*Prices start from £320 for Members | £525 for Non-Members plus VAT.
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6,384 interactions in one week

In the 7 days from 30th May 2019, BVAA held THREE Desktop Exhibition events at SNC-Lavalin in Epsom, Wood in Aberdeen and finally SNC-Lavalin in Bristol, with 36, 82 and 50+ attendances respectively.

We make that a possible 6,384 interactions facilitated by the BVAA for members – in a week!

Impressive. But do numbers matter?

Having organised nearly 70 – yes 70! - of these in-house exhibitions for major valve-customers and users, there's definitely a feel-good factor about a well-attended event, adding a bit of atmosphere and vibe.

However, it has been stated to us time and time again, by members *and* the hosts, that numbers are not critical to success. It is the quality of the contacts made that is important, not the quantity.

If you've not attended or hosted a BVAA Desktop Exhibition yet, you might want to think about *why* they are so popular, both with valve suppliers *and* their customers.

They are quick and hassle-free to set up, they are free of charge to the host with all costs and organisational aspects borne by the BVAA.

We usually run them over the two-hours surrounding the lunch time period to avoid any downtime.

You'll also get to see all the latest valve industry innovations in the flesh, without ever leaving your offices.

All are welcome.

Contact **rob.boycott@bvaa.org.uk** or **rob@bvaa.org.uk** to find out more about the benefits and how to arrange a **FREE** Desktop Exhibition at your own premises.

BVAA TRAINING

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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.

• Valves • Actuators • Control Valves • Safety Valves • Advanced Valves • PED / ATEX • SILS • Bespoke Courses

Prices start at £2,250.00 + VAT

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:

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New members:

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*'Flexitallic is the market leader in the manufacture and supply of static sealing solutions, delivering high quality industrial gaskets on a global scale. Committed to our mission of "**Making the world safer and cleaner through engineered sealing solutions**", we strive to achieve our mission by providing best-in-class sealing solutions that allow our customers to operate their plants, complete projects, and start up from turnarounds safely and efficiently. Our goal is to help customers achieve zero leaks on start up and throughout the operating cycle. Our team of application engineers work with customers on a daily basis to solve problems and develop solutions specifically tailored to the customer's needs.'*

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'Stronger Together' - see www.bvaa.org.uk/how_to_join.asp

BVAA at IVS

Rob Bartlett writes, *'This was our first visit to IVS, and what a welcome surprise it turned out to be! The show had a fantastic atmosphere and attendance, with nearly 11,000 visitors over the - entirely sensible - two-days. Other expo organisers take note!*

The two halls were crammed with 250 high-quality exhibits. There was certainly a dominance of the quarter-turn fraternity, and indeed mainly local exhibitors - but as an expression of prowess in that sector and region, it was certainly emphatic.'

'Admittedly the BVAA stand was not ideally located, being in the central atrium, but happily we found ourselves on the route to the café, restaurant, and the Conference, and were well pleased with the quality and quantity of visitors received over the two days, including a lot of friends old and new.'

'If you are a BVAA member and contemplating attending then please let the Secretariat know ASAP as we are endeavouring to have an improved presence next time.'

A full press release by the IVS organisers appears on page 82

Note:
The next IVS will be held in Bergamo May 26th/27th 2021, see https://industrialvalvesummit.com/

Visitors perusing exhibitor stands at IVS

International Steam Trap Standards – Proposal to revise

What is it?: The following International Standards have completed their 5 year review. The UK voted to confirm except ISO 6554 where the vote was abstain due to lack of national expertise. The majority decision of the members of ISO TC153 was to confirm each standard. Comments were received from France, China and Canada.

1. ISO 6552:1980 and Cor 1:2009 "*Automatic steam traps - Definition of technical terms*"
2. ISO 6554:1980 "*Flanged automatic steam traps - Face-to-face dimensions*"
3. ISO 6704:1982 "*Automatic steam traps – Classification*"
4. ISO 6948:1981 "*Automatic steam traps - Production and performance characteristic tests*"
5. ISO 7841:1988 "*Automatic steam traps - Determination of steam loss - Test methods*"
6. ISO 7842:1988 "*Automatic steam traps - Determination of discharge capacity - Test methods*"

Why is it important?: At its meeting on 2019-9-27 TC153 will discuss whether to revise these standards based on the comments received. The comments received are BSi Documents PSE/18_19_0053 to 0058.

Four of these ISO standards have corresponding EN standards, ISO 6704 EN26704, ISO 6948 EN 26948, ISO 7841 EN 27841 and ISO 7842 EN 27842.

For more information please contact: **enquiry@bvaa.org.uk**

Butterfly valves for food applications

The ISORIA butterfly valves are now available with an oil-resistant liner for food applications

At the beginning of May 2019, KSB SAS, a member of the KSB Group, launched a new type of liner for its ISORIA butterfly valve type series.

It is manufactured from hydrogenated nitrile butadiene rubber (HNBR) and certified in accordance with the requirements of the European Food Contact Materials Regulation (EC) 1935/2004.

This new approval extends the range of applications for the type series, which has already been approved by the FDA (USA, Food and Drug Administration).

The NH liner (HNBR) is suitable for all food applications in which animal, vegetable or mineral oils and acidic liquids are used. It is resistant to hydrocarbons and also suitable for use in solids-laden liquids as it is very abrasion-resistant.

The selective hydrogenation of nitrile rubber (NBR) significantly increases the temperature resistance of HNBR.

Butterfly valves equipped with liners manufactured according to the new formulation (NH) can be used in liquid fluids up to a maximum temperature of 150°C.

The soft-seated centred-disc ISORIA type series is available in nominal sizes DN 40 to DN 1000. KSB also manufactures other liner materials for food applications that comply with the various requirements of Regulation (EC) 1935/2004 and the FDA.

For example, KSB provides liners made of EPDM and white nitrile for the beverage industry.

The KSB Group is one of the few valve manufacturers in the world to develop and produce its own elastomers.

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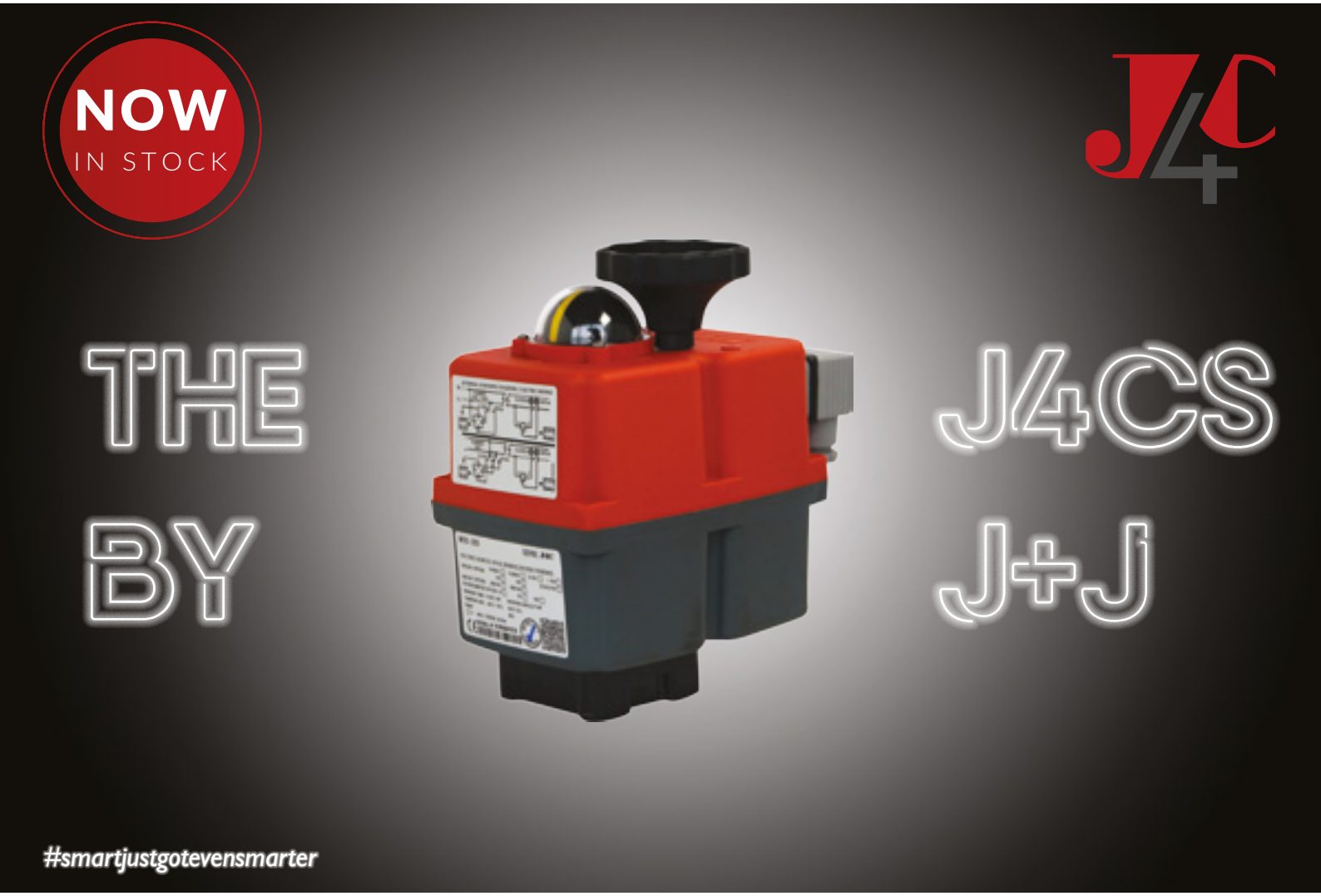

New Features

Brushless motor

The J4CS series has a revolutionary brushless motor. Resulting in greater improvement to lifecycles compared to its predecessor. Each unit now comes with a 3 year warranty from shipment date or up to 60 000 working cycles.

Bluetooth technology option

Configuration during setup or operation can now be performed via a smartphone or tablet. The J+J app is now available on App and Google Play Store.

Modbus option

Plug and play system, where up to 32 actuators can be installed and operated manually. Connection available via ethernet cable or WiFi.

Hydravalve (UK) are the only official UK & Ireland distributor for J+J

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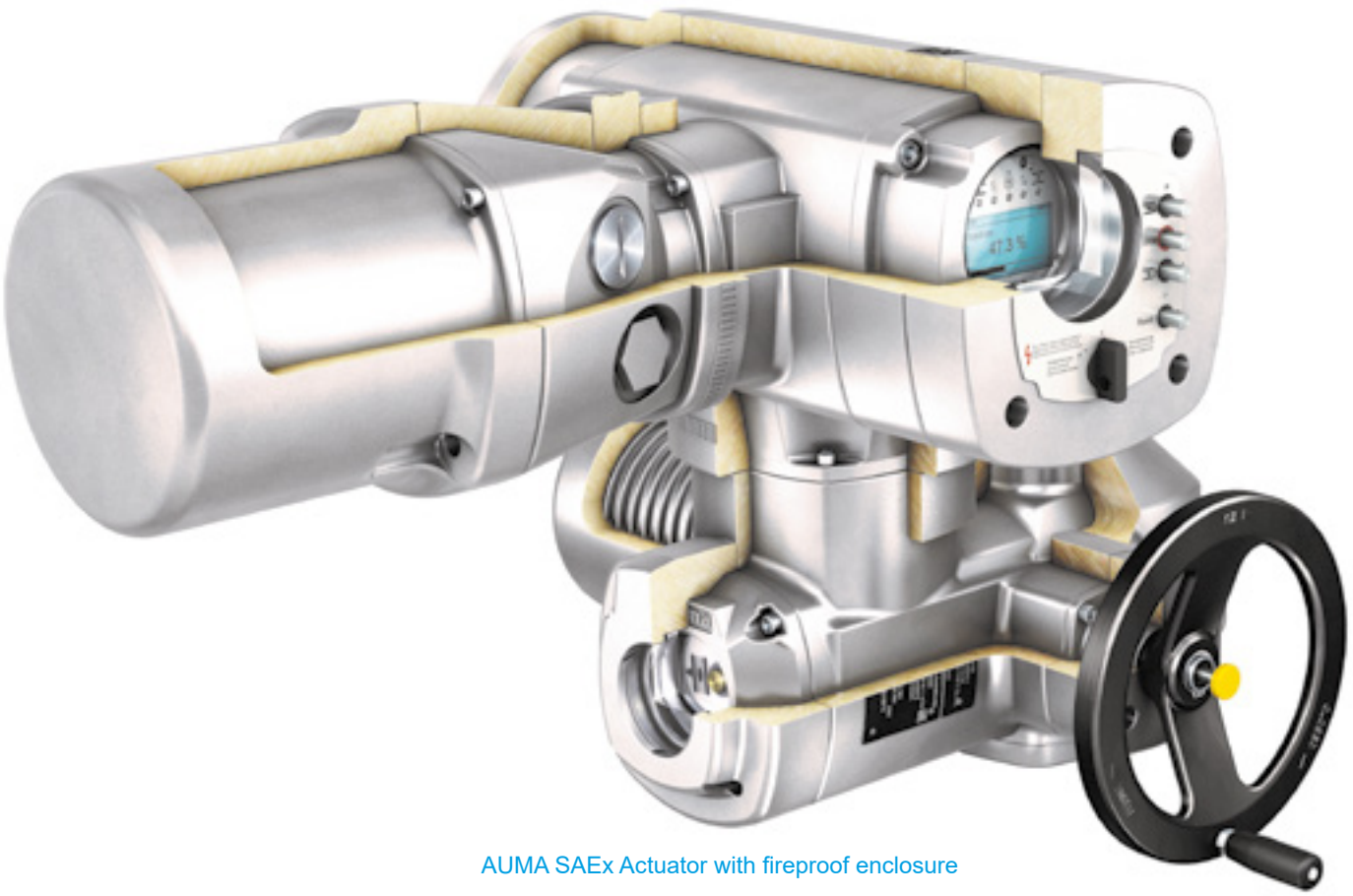
Precision Flow Control



AUMA SAEx Actuator with fireproof enclosure

Flow of both oil and gas requires precise actuation of valves under extreme conditions – very high, very low temperatures, in arid or high rainfall environments, in remote situations in deserts or arctic tundra, while rebuffing the corrosive effects of high humidity or salinity for extended periods. Operating in explosive atmospheres, even with the potential to require fireproof operation.

The actuator also forms the crucial interface between the process and the distributed control system (DCS). And, as IIoT gains momentum, electric actuators provide direct access to a wide variety of both process and diagnostics data.

Pipeline operations depend for their fundamental functions on a high degree of valve automation. The complex processes in compressor stations, in pumping stations or on filtration skids require valve positioning to be accurate and extremely reliable.

Actuators have to control flow of both gas and liquids. Typically, ball or butterfly valve actuation requires part-turn actuators providing a swivel movement. Gate valves, on the other hand, typically need multi-turn actuators providing several complete actuator turns to operate the valve from open to close and vice versa.

Both open-close and modulating actuation is required. Actuators for open-close duty are typically required to infrequently open or close shut-off valves, usually ball or butterfly types, in block line valve stations or scraping stations, for example.

Pipeline applications often involve opening and closing large valves with, consequently, very high torque requirements. AUMA actuators address this with a portfolio of gearboxes, achieving torques of up to 675,000 Nm.

Modulating actuators provide enhanced positioning accuracy for control valves in order to precisely control the flow within pipelines. E.g. in gas receiving terminals in gas pipelines, pressure control valves have to operate frequently and precisely to reduce the gas pressure.

AUMA's modular actuator concept meets varied demands with a set of standard components, reducing inventory requirements. A broad range of multi-turn and part-turn actuators are available for different torque ranges, for different power supply sources, different valve attachments, etc.

A choice between basic or intelligent actuator controls provide cost-efficient solutions for both simple and the most complex process control tasks. Flexible actuator geometry allows easy on-site adjustment of mounting positions so that operating elements such as local controls and display are always easily accessible, even if space is scarce.

Especially important for pipeline situations exposed to highly saline atmospheres, AUMA employ a powder coating process for the individual housing parts. AUMA actuators meet the requirements of EN ISO 12944-6 for corrosivity categories C5-M long (marine, coastal and offshore areas).

Electric actuators to be used in oil and gas pipelines must be certified for use in potentially explosive atmospheres. The oil & gas industry is a global market with varied certification depending on the country or region, for example ATEX (Europe), IECEx, FM (USA), EAC (Russian Federation) or NEPSI (China).

Additional requirements can call for actuators in fireproof versions that reliably maintain all functionality, even under the direct impact of fire. AUMA actuators can be equipped with a

AUMA actuator on pipeline filtration skid in the Middle East

fireproof enclosure that meets the requirements of UL 1709 that absorbs the heat and ensures reliable actuator operation at ambient temperatures up to 1,100°C for 30 minutes, preventing spread of fire by closing the valve.

IIoT and big data means that flow of oil and gas, the processes along the pipeline, will all be expressed as data with ever increasing granularity. Where there is data, that data can be used and manipulated, and new ways of using that data will emerge. Actuators, because they are present throughout any distributed flow process, will be key enablers in the data revolution to come.

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ISO/FDIS 5209 General purpose industrial valves – Marking Document for Final Vote and Approval to Publish

TECHNICAL HOT SPOT

What is it?: This document specifies the requirements for the mandatory and optional markings of general purpose industrial valves. It defines the method of applying the markings, on the body, on a flange, on an identification plate or any other location.

This document is considered in conjunction with the specified requirements of the valve product standards or valve performance standards.

The marking requirements for plastic valves are not within the scope of this document.

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

— the structure has been aligned with the current ISO Directives, Part 2;
— Clause 4 has been updated to give the requirements for mandatory, supplementary and other markings;
— in Table 1, item 20 "*Allowable differential pressure*", item 21 "*Closing direction*" and columns 3 to 5 have been added;
— a new Clause 5 has been created to give details of marking.

ISO 5209 has been aligned with EN 19 such that valves marked in accordance with EN19 comply with the revised ISO standard.

Supersedes: Will update the 1977 standard

Clamp Seals provide secure, hygienic tube connections

Freudenberg Sealing Technologies has unveiled a series of newly developed clamp seals that ensure rapid and extremely secure tube connections in food and beverage production machines that are required to operate on a continuous basis.

Using the new seals allows customers to eliminate the expense of converting connections to a '*hygiene flange*' in accordance with DIN 11864, while undesirable over-compression into the interior of the tube connection is averted. In addition, the seals are especially easy to install and re-separate as, by the defined compression, any '*sticking*' on the flange is contained.

The new clamp seals are available from authorised distributor Dichtomatik Ltd, the exclusive provider for Freudenberg's food and beverage related products in the UK.

Development of the clamp seals has been prompted by the lack of pre-defined compression provided by conventional alternatives. This deficiency results in a portion of the clamp seal protruding into the internal tube connection space once a flange connection is sealed.

To exacerbate the situation, the industry's lack of guidelines for torque and force application during mounting mean it can be challenging to achieve the optimum amount of sealing element compression.

Any part of the seal protruding into the product space not only reduces the internal tube diameter, but prevents effective cleaning, a critical factor in the food and process industries.

In short, the formation of difficult-to-clean dead spaces make it easy for bacteria to accumulate. The potential outcome is problematic for food and beverage plants as product contamination becomes a real possibility. Further negative implications include seal damage from the flow of media, and the potential for protruding parts of the seal to be torn off and enter the product.

Overcoming all of these issues, the new clamp seal from Freudenberg has been developed to suit tube connections in accordance with DIN 32676, ASME BPE or ISO 2852. The seal's structure features many obvious contrasts to those of conventional seals.

For example, due to the incorporation of a special plastic component, a defined stop is created that prevents over-compression and unwanted extrusion into the line's interior.

Ultimately, when it comes to hygiene, the latest clamp seal from Freudenberg is a major advance as the risk of contaminating entire product batches is reduced thanks to its flush closure. As a result, the internal diameter of the seal precisely matches the dimension of the tube's internal diameter, eliminating any mounting mistakes.

A further benefit is that the use of plastic as the clamp seal stop means that the additional binding agent necessary with metal is unrequired.

Clamp seals from Freudenberg Sealing Technologies offer a wide range of applications for sealing pipe connections.

Freudenberg clamp seals provide secure, hygienic tube connections.

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HSP Valves – Number One for IMI Maxseal

IMI Maxseal Filter Regulator, IC03 and IC04-PST

HSP Valves has become a world-leading supplier of valves to the oil, gas and petrochemical industries since its formation in 1978. The company's success is based on its independence, expertise and market leading products.

Over the years, HSP has supported operators and service companies during shutdowns and emergency situations, sourcing replacement valves speedily and accurately. As a result, the company is a trusted partner for energy majors when it comes to maintenance, repair and operations.

One such relationship is with IMI Maxseal Valves and its range of solenoid valves. HSP is the largest stockist of these valves in the world and offers 24-hour fast track shipment to its customers.

The valves are respected worldwide for their high quality, reliability and integrity, having performed in extreme and hazardous environments for the last 50 years.

HSP has been the official IMI Maxseal distributor for more than a decade and holds the largest global inventory of IMI Maxseal products, including the new IC03 hydraulic range and IC04 PST "*Partial Stroke Testing*" solenoid valves, filter regulators and associated products.

The ICO4-PST is the first fully integrated partial stroke testing solution with the control system built on the market leading IMI Maxseal ICO4 high integrity solenoid valve.

With the lowest safe and dangerous failure rates of any intelligent PST system on the market and providing the highest possible diagnostic coverage, the best possible SIL performance is guaranteed.

The ICO4-PST Smart Solenoid valve is ideal for retrofit applications, and its flexibility means the valve can be easily configured for specific environmental and application requirements.

The pneumatic version of the Maxseal IC03S has long been the preferred choice when a small valve footprint was required, thanks to its dual solenoid application and excellent flow rates that does not require the additional cost of boosters.

The new IC03S Hydraulic SOV is available in pressure ranges up to 700 bar and flow rates up to 90L/pm and is ideal for hazardous area applications.

HSP has increased and expanded its inventory and range of IMI Maxseal solenoid valves adding the new Hydraulic IC03 and IC04-PST to the current extensive range of voltages and pressure ranges including up to 414 bar.

The stock is held in strategically located HSP operations in Aberdeen, Teesside and Dubai, where 24-hour and even same day shipments are available.

IC04-PST installed on North Sea platform

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AVS - Drain Valve applications

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

Drain Valves

A huge concern is the condition of the different types of drain valves on site.

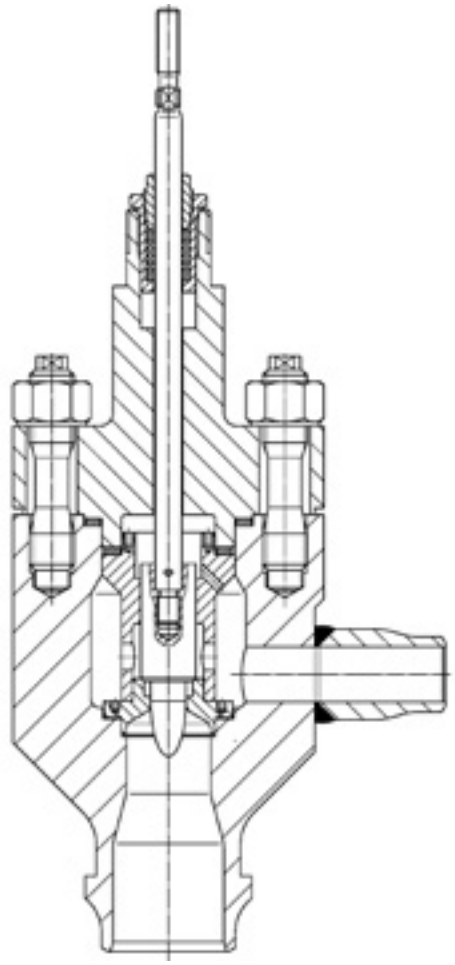
The continuous, the dis-continuous blow down and the super heater drain valves must be monitored carefully.

In a start-stop regime these valves are in operation daily, dealing with the most aggressive process conditions seen on site with high pressure and temperature water/steam and flashing conditions.

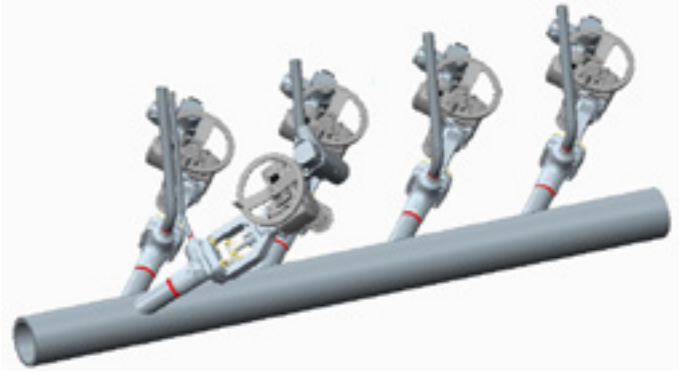
We prefer an angle type valve with an increased outlet diameter, fitted with a quick changeable trim and a separate seat and control edge. This allows quick maintenance and extended service life.

Sometimes modifications on the pipe work arrangements are beneficial. The preferred location is always close to the flash-drain tank.

An additional throttling plate can be used to control the back pressure between the valve and the drain vessel in case the valve is located further away.



Typical drain valve, clamped trim, separated control and sealing edge, extended outlet size, forged body



This is the ideal drain valve arrangement, angle type valves, installed at a 45 degree angle into a common line.

Advanced Valve Solutions

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The Latty Group introduces a new range of radiation-resistant Elastomer Seals

The LATTY E48Z11LY1700 elastomer seals are intended to be used in semi-dynamic or static applications such as nuclear power plants, pumps, industrial valves, compressors, motors, actuators, bolted assemblies, pressurized devices and materials exposed to radiation.

Certified PMUC N° 17-0389 (Products and Materials for Use in Power Plants) with a halogen and sulphur content of less than 200 ppm (according to the GDL D5710/ ESD/1990/000295/001 procedure), the material prevents corrosion in both the primary and secondary circuits.

The seals are characterised by very good resistance to weathering, nitrogen, oxygen, phosphate ester-type hydraulic fluids, polar solvents (water, alcohols, glycols, ketones), steam and detergents.

Designed specifically for the nuclear industry, they are also suitable for medical field (imaging), instrumentation (radiation protection), or personal protection equipment.

They can be used over a wide temperature range from -40°C to 140°C in water or superheated water (for prolonged periods) and 170°C in water of steam (for up to 24h).

The compression set after compression for 70h at 100°C is only 15%.

They are available in various sizes and versions: O-rings, gaskets, moulded and machined seals, sheet gaskets, v-rings. Other forms are available on request.

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

prEN 15714-5:2019 Industrial Valves - Actuators Part 5: Pneumatic linear actuators for industrial valves - Basic requirements - Draft for Public Comment

What is it?: This document provides basic requirements for piston type pneumatic linear actuators for industrial valves, both double acting and single acting, used for on-off and modulating control duties.

It includes criteria, method and guidelines for design, qualification, corrosion protection, control and testing.

It does not apply to diaphragm actuators and to pneumatic actuators which are integral parts of control valves.

Why is it important?: This is a new part of the EN15714 series of standards for actuators. Part 3 is pneumatic part-turn actuators. This extends the standardisation process to cover pneumatic linear actuators

Supersedes: Potential new standard.

Verification or Calibration?

In general usage, the term "*verification*" is often mixed up with "*calibration*".

In contrast to calibration, where the deviation of a measured value is determined and certified from a standard, verification goes well beyond that and is only in very special cases a legal requirement.

For a number of measuring instruments, a state-driven legal requirement for verification exists.

That means that they may only be used if they have been verified by a nationally recognised testing laboratory.

Verification is therefore the state-required testing of measuring instruments.

In doing this, based on a consistency quality test, it is determined whether the measuring instruments are able to be verified.

In the subsequent metrological testing it is checked whether the measuring instrument complies with the specified maximum permissible errors and conforms to other requirements that are defined in the verification ordinance or in the EU directives.

Included in this category are such as water meters, commercial scales, petrol pumps, radar measuring instruments or measuring equipment for automotive exhaust gases.

In addition, pressure gauges must therefore only be verified if their suitability (for example because of a specific measurement accuracy) serves to protect the health and safety of people or to measure dimensions in the free movement of goods.

Overview of the differences between verfication and calibration:

Verification
Verification – Only when it is a legal requirement (not ISO9000):

- Determining compliance with legally prescribed verification error limits

- Officially recognised and legally binding verification testing

- Verification certification or conformity certificate ("*initial verification*")

Calibration
DKD calibration – Specifically if metrological traceability is necessary:

- Per calibration point, the deviation and measurement uncertainty is determined and documented in the calibration certificate

- Trusted measuring results with traceability to international standards

- DKD calibration certificate

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Easier automation with standards

Blood plasma is an essential resource in the production of life-saving medicines and are in high demand on the global markets. To make more efficient use of this valuable commodity, Biotest AG developed a new large-scale plant for plasma fractionation. Standardised components from Festo simplify installation and maintenance.

In order to be able to make the best possible use of this valuable raw material, companies like Biotest AG, based in Dreieich near Frankfurt/Main, Germany, are investing in research and innovative manufacturing methods for more efficient processes.

This is also achieved through improved process automation. 6,000 valves and 250 standardised control cabinets from Festo simplify the construction and maintenance of the plants.

Lasting effect of standardisation

Standardisation enables the plant engineers to benefit from easy to purchase, predefined components and favourable terms. For the operator Biotest, the overall cost for spare parts supply is reduced. The training requirement for maintenance and service staff as well as downtimes are also reduced.

Increased capacity and economy

"*Expansion of capacity and economy were central aspects when it came to the construction of the modern large-scale plant,*" explains Matthias Mahle, Head of Technical Project Management BNL, at Biotest. "*We are strengthening our market position on the global stage by obtaining more products from the same amount of plasma.*" In the new plant, Biotest will be able to manufacture six instead of the previous three products as well as increase the yield and its purity. Whereas the capacity limit used to be 800,000 litres, the new plant will be able to fraction up to 1.4 million litres of blood plasma.

Early involvement in the engineering process

The plant is expected to be fully commissioned by 2021. Following basic engineering, Festo was involved in the detailed engineering process very early on. Werner Gödel, Head of the EMSR Technology Department, Biotest, insisted on the greatest possible, long-term plant efficiency through standards such as standards-based valve boxes.

Defined down to the smallest detail

Festo played an active role in the definition phase for the new plant, right down to the last detail. Once Festo was defined as the standard, all suppliers were able to order the relevant products and pool components systematically via the electronic platform.

Close coordination from the beginning

For Werner Gödel from Biotest the close coordination with Festo and Biotest's own maintenance department in the early planning phase was important.

"*The maintenance and plant engineers were clear in their preference for Festo because of the ease of use, the good support and the long service life*," explains Gödel.

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Alongside an enviable stock range of approx. 65 grades of material, which allows the company to offer one off or contract-based packages, Corrosion Resistant Materials offers additional services such as Heat Treatment, Forging, UST, Mechanical Testing and First Stage Machining.

Following a recent large investment in stock, Commercial Manager Adam Bradley states:

'Since we first opened our doors back in 2015 our main emphasis has been on offering customers all grades of materials they need for their project in one place. We pride ourselves on our technical knowledge and being able to offer difficult to find materials to challenging specifications. Most of our work isn't straightforward and will include some element of additional testing, Heat Treatment or Machining – that way we can save time and money for our customers and their supply chains.'

'By investing more in stock, we will be able to service our customers quicker and by talking to our customers we continually make sure they have what they want, when they want it for their projects or one-off orders.'

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SmartAct® launch the small energy efficient Smart Electric Actuator

Almost ready for shipping and filling back orders is the Small Smart Actuator from The Smart Actuator Company. The first model in this small range will operate between 0 to 30Nm and for orders placed in the first 26 weeks will come with Failsafe already switched on '*Free of Charge*'.

SmartAct® Actuators are the world's most Energy Efficient Actuators due to the patented, innovative RIFT motor design and feature a range of standard Smart Technology functions as well as a range of Advanced Functions all operated with an Android App.

These day's there are not many of us who aren't connected to the '*Internet of Things*' and use a smartphone or other device so it makes sense that in our work we can utilise the same Smart Technology to make our jobs easier. Simple to access via Bluetooth, our easy to use App can be installed on your smartphone or tablet meaning that right from the beginning when you are planning installation all the way through commissioning & maintenance the job of operating this actuator is going to be simple. It also makes the issue of reachability and access far less of a problem for regular maintenance.

Injection moulded from Glass reinforced Nylon 66 it will withstand temperatures from -20°C to +70°C and is IP67 compliant.

This model features easy to use external GSA connectors.

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Rick Faircloth recieves Citation of Appreciation award from API

On June 26th Rick Faircloth was awarded a Citation of Appreciation award from API. This award is API's version of a lifetime achievement award. Presenting the award was Mr. Erik Milito, API Director of Upstream and he had the following comments.

"The American Petroleum Institute (API) recognizes Rick Faircloth for the leadership he has generously provided as Chairman of the Subcommittee on Supply Chain Management and his more than 35 of service to the Committee on Standardization of Oilfield Equipment and Materials in Subcommittees 6, 18 and 20.

During Rick's tenure the Subcommittees have advanced work on several key documents covering castings, forgings, offshore bolting, quality and supply chain.

Rick has also been a leader in chairing API's task group on pipeline valves for 20 years, one of API's most widely used standards, supporting worldwide safe and sustainable operations. And from this document, the industry has benefited from supporting documents on subsea valve operations, actuators and HPHT.

Rick has long been appreciated for his skills as a consensus builder and is recognized for his leadership, technical skills, and significant contributions to the standardization program of the American Petroleum Institute. The API, its Committee on Standardization of Oilfield Equipment and Materials and the international petroleum and natural gas industry thank Rick for his lasting contributions."

Rick was also presented an award for his 40 years of participation with API standards development.

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Albion Valves expand their horizons

Albion Valves (UK) Ltd, a leading supplier of valves to the industrial and building services markets in the UK have opened a sister company, Albion Valves (International) Ltd.

Albion Valves (International) Ltd will be providing valves and fittings to the Middle East, Africa and Southern Asia, and will be serviced by a dedicated team based in the UAE.

This new company comes as a result of great success experienced by the UK based company, including an increase in export business over recent years. Albion Valves (UK) Ltd has over 30 years' experience in the industry and has built a reputation within the UK for its quality products and excellent customer service.

This comes at a time when the construction sector in the Middle East and North Africa is booming, with regional governments continuing to invest in infrastructure projects such as Dubai Expo 2020, Qatar 2022 World Cup, New Cairo Capital in Egypt and large residential construction projects in Saudi Arabia.

Albion Valves (International) Ltd has been established to support their growing network of distributors in the region and will have a large stock holding in Jebel Ali Free Zone to service these distributors and customers efficiently.

Jason Thomas, Sales Director at Albion Valves (International) Ltd, comments:

"Everyone at Albion is excited for this new venture. It comes at a time when business in the region is strong and there are plenty of opportunities to be had.

Albion have a strong reputation in the UK for their quality products, comprehensive range and high customer service levels and we hope to build upon this to open doors for us in the Middle East, Africa and Southern Asia."

For further information visit **www.albionvalvesuk.com** or contact us on **01226 729900**.

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Severn eliminates corrosion risk in firesafe valves for offshore oil & gas

Severn celebrates the successful completion of fire testing

Inspecting components after the test

Valves are bathed in fire for 30 minutes

Ground-breaking innovation ensures graphite parts don't meet line media

Severn Glocon Group is extending its range of triple offset butterfly valves with a new solution that avoids galvanic corrosion in saline applications, without compromising firesafe capability.

The OCT®SW innovation was driven by market feedback from offshore oil and gas operators in relation to seawater service valves used for fire safety. It ensures graphite parts – which can increase the susceptibility of neighbouring metals to corrosion when exposed to seawater – do not contact line media.

Seawater service valves play an integral role feeding water in the event of fire on an offshore platform or vessel. Their ability to either supply or isolate sections of the water line is a critical safety feature. Eliminating galvanic corrosion while maintaining firesafe credentials has been an enduring challenge for the industry. Severn's new valve design overcomes this limiting factor and recently passed fire testing in accordance with the latest editions of API 6FA, API 607 and ISO 10497.

Mark Breese, Group Product Development Manager – Butterfly Valves, says his team focused on fully isolating graphite parts from line media, or removing them from the valve entirely.

"Triple offset valves are generally constructed with graphite packings, gaskets and laminated metal/graphite seals," Breese explains. *"In normal operation this noble material provides good service, but increased risk of galvanic corrosion in seawater applications has been an ongoing concern for offshore operators. Our team overcame significant technical challenges to develop a sustainable solution that removes or replaces graphite. Their success underlines our world-class engineering capabilities and builds on our pioneering oblique cone technology for triple offset valves."*

Granted a patent by the UK Intellectual Property Office in 2018, Severn's oblique cone technology (OCT®) is central to this new solution.

The *'infinite circle'* geometry of the design enabled the R&D team to develop a hybrid seal technology that eradicates the need for graphite.

To validate integrity, OCT®SW valves are exposed to a stringent fire testing procedure, involving a 30-minute burn where they are bathed in flames.

Valves are monitored for leakage throughout the process. After a forced cooldown period, they undergo further seat and external leakage testing, and operational capability is also verified.

The process is designed to simulate the time required to extinguish a fire, ensuring the valves can perform during and after an incident.

"This is a landmark development which offers benefits for many firesafe applications, not just seawater service," Breese continues.

"The team took steps to ensure the solution is compatible with additional control valve features such as anti-cavitation or low-noise trims, extending its potential use beyond isolation service. It can also be retrofitted into valves already in operation."

Overseeing the fire testing process

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Australian sewage treatment plant using Rotork intelligent actuators to automate penstock gates

Rotork IQ3 multi-turn actuators are controlling eight penstock gate valves at a sewage treatment plant in Murrumba Downs, Australia

Rotork intelligent electric actuators are controlling penstock gates at a sewage treatment plant (STP) in Australia.

Third generational IQ multi-turn electric actuators have been installed on eight penstock gate valves to control the flow of wastewater entering the STP in Murrumba Downs, a suburb in the country's state of Queensland.

End user Unitywater owns 17 STPs in the Moreton Bay, Sunshine Coast and Noosa regions of Australia. It operates 15 of these sites where sewage is treated before being reused or discharged into rivers or oceans.

The company also produces biosolids, a material rich in phosphorous and nitrogen created from treating wastewater solids, to be used in agriculture and composting.

Unitywater chose the Rotork product to automate the opening and closing of the penstock gates.

The gates had previously been accessed via a ladder and hand operated, which took four people six hours to fully open or close the valve.

To further enhance site safety, some of the IQ3 actuators installed at the Murrumba Downs site have also been fitted with Remote Hand Stations (RHS) to enable local operation of the valves without compromising the safety of its operator.

The RHS uses the same display and controls interface as featured on the IQ3, allowing site operators to carry out operation and configuration up to 100m away from the actuator.

A 24 VDC power supply is provided via the attached actuator so no supplementary electricity source is required and the RHS can be mounted to either a pole or wall.

Data logs from the attached actuator can also be accessed and downloaded through the RHS using the Rotork Bluetooth® Setting Tool.

This data, which includes information such as event logs and torque profiles, can be analysed on a PC running Insight 2 software for asset management and maintenance prediction purposes.

Rotork's intelligent IQ3 actuator can be used for isolation or regulating duties of up to 60 starts per hour and provide a direct output torque range from 14 Nm to 3,000 Nm (10 to 2,200 lbf.ft).

Tel: 0113 256 7922
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Web: www.rotork.com

BS EN ISO 4126-2:2019 "*Safety devices for protection against excessive pressure - Part 2: Bursting disc safety devices*" - revised standard issued

TECHNICAL HOT SPOT

What is it?: This document specifies the requirements for bursting disc safety devices. It includes the requirements for the design, manufacture, inspection, testing, certification, marking, and packaging.

Why is it important?: The main changes compared to the previous edition are as follows:
— non-applicable references have been removed;
— material references (old Annexes A and B) have been removed;
— new Annex A (Informative) Packaging: marking, assembly instructions and documentation has been added.

Supersedes: The 2003 edition is superseded.

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HSP Valves to expand and strengthen its capabilities

Valve Automation facility in Aberdeen

HSP Valves is set to expand its position as a major valve supplier

Over the last 40 years, HSP has become one of the UK's largest valve distributors to the oil, gas and petrochemical industries.

The company has announced plans to expand its capability with the opening of a new valve automation facility in Dubai later this year.

HSP's 25,000 sqft valve automation facility in Aberdeen, where it designs and builds pneumatic and hydraulic actuated control systems, will be replicated at its Jebel Ali base in Dubai to support its growing customer base in the Middle East.

The company is recognised for solving the most complex and demanding valve procurement challenges as a result of its vendor relationships, resources, expertise and customer partnerships.

The loss of skills from the engineering sector in recent years has been well documented. As customer resources within the industry have become stretched, distributors like HSP have responded with technical and procurement support on all aspects of valves as well as delivering actuation packages, built in-house to customer specification.

Derrick Mackenzie, managing director for HSP Valves said: *"It is an exciting time at HSP Valves as we see our Dubai and Singapore centres expand to meet growing need world-wide. Our plant in Aberdeen has an exceptional reputation, and it is also our base for the assembly of actuated valve packages we produce, which are used in the oil and gas industry across Europe, the Middle East and Asia."*

"We aim to replicate this success at our Dubai base, in providing fast track actuation package assembly. Our heritage is in supplying the maintenance, repair and operations environment in the North Sea and supporting global EPC projects, and this success enables us to offer this service to our clients in the Middle East and Asia Pacific region."

"Our international network is strong and enables us to facilitate global projects seamlessly. We have excellent relationships with manufacturers globally and can ensure projects are completed smoothly and on time. As a group, we are proud of not just our high level of technical knowledge, but also our responsiveness and attention to detail on very complex projects."

Over the last four years HSP has significantly grown its valve actuation service to customers in the UK and overseas.

The company provides a diverse range of actuated valves that vary both in design and dimensions ranging in sizes from 1 to 48-inch diameter and in pressure ratings up to Class 2500.

Control panels in assembly in Aberdeen

12" 2500 RTJ Actuated Ball Valve, Dubai Facility

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Gee Graphite Ltd was founded in 1989 to offer customers a range of industrial gasket and sealing products based on expanded flexible graphite.

Priding ourselves on being at the cutting edge of technology Gee Graphite remain a global leader in our chosen sectors. We offer customers innovative products and technologies to help achieve their ever changing needs; developing new products to deal with increasing legislation on fugitive emissions and providing gaskets for tomorrows sealing applications.

With a history of solving application based problems from cryogenic to elevated temperatures and vacuum to high pressures, Gee Graphite continue to supply high quality products based on this unique material to customers globally.

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- Geegraf Graphite Foils & Laminated Sheets
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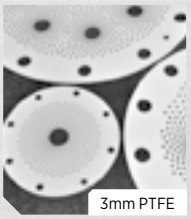
ISO 14001
ISO 18001

Metals:	
304 Stainless Steel	Hastelloy C276
316 Stainless Steel	Titanium Grade 2
347 Stainless Steel	Titanium Grade 5
410 Stainless Steel	Nitronic 50
630 Stainless Steel	Nitronic 60
Duplex 31803	Zirconium
Super Duplex 32750	**Gasket Material:**
Super Duplex 32760	Graphite
Alloy 400	VIRGIN PTFE
Alloy 625	RPTFE
Alloy 718	Mica Type Materials
Alloy X750	Fibre Based Gasket Materials
Alloy 800	

What can we Water Jet Cut?

With over 25 years of experience we have successfully profile cut a vast range of materials from low density foams to wear resistant steels. The only requirement is that the material is 'flat' and can be positioned on one of our 10 machine beds.



3mm PTFE

30mm Stainless Steel

- **Metals** – Aluminium, Brass, Bronze, Copper, Lead, Carbon Steel, Nickel Alloys, Stainless Steel, Titanium.
- **Non Metals** – Carbon Fibre, Ceramics, Cork, Foam, Glass, Granite, Graphite, Laminates, Plastics, PTFE, Solid Rubber, Tufnol, Wood.

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NEW MEMBER

Broder Metals Group: global reach, personal touch

Brodel Metals Group HQ

Broder Metals Group Ltd is a specialist steel distributor, based in Sheffield. Our stock range includes Alloys 400, 625, 660, 718, and 825, as well as cold drawn grades (316 and F55) and specialist steels (UNS R30035 – MP35N™ & 35N™, and BMG-AT41™ for example) for demanding environments and applications.

We complement our steel range with Aluminium Bronzes and as well as specialist nickel / silicon bronze grades for high specification environments. Our full stock range can be seen on our website **http://www.broder-metals-group.com**

We have held our ISO 9001 quality management system certification since 2005, and in June 2019 gained certification to AS 9120, the aerospace distributor quality system accreditation.

We have always worked closely with fastener manufacturers in the UK and abroad (approximately 50% of turnover is exported), but one area that we started to focus on a few years ago is the Valve and Actuator market. We are pleased to see that our sales to Valve and Actuator companies increased by 68% over last year to reach over £600,000 sales value.

Why are we seeing this growth?

- We hold stocks of grades & sizes appropriate for the Valve and Actuator marketplace – we expanded our range by listening to customers and understanding how we could best help them to grow their businesses.

- Using our traditional fast response to quotations & despatch, on which we have built our business over last 16 years, to ensure that stock items leave us within one day of order receipt on an agreed range of grades & sizes. Cutting to length obviously takes longer but our focus remains on delivering product to customers just as quickly as we can, and we are proud of our on-time delivery performance.

- Using our knowledge and experience of standards and end-user specifications to help our customers by supplying material that meets their particular requirements, whether this is by re-heat treating and / or testing (including testing under witness with intent of 3.2) where necessary.

- By expanding all of the above through using Sheffield's extensive sub-contract network to provide a range of machining and boring operations on material, so we could reduce our customer's internal workload and own lead times. This now includes providing more precision machining of stepped, shaft and other associated products.

As Mark Burton, our Managing Director says: *"In a nutshell we do what we are good at – listening to customers, and wherever we can, helping customers to win more business by speed of reaction, flexibility and a willingness to provide value added work as an extension to merely supplying bar product."*

Our tag line is *"Global Reach, Personal Touch"*, and we aim to provide a professional, yet friendly service, built upon lasting business relationships to maintain our level of growth in the Valve & Actuator market.

Managing Director Mark Burton proudly displaying his BVAA members plaque

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Webtec’s new UK sales engineer

Matthew Woodhead

Webtec has appointed Matthew Woodhead as UK Sales Engineer to cover the South East and West, West Midlands, Wales and parts of the North West. Matthew has worked in the hydraulics industry for over 23 years and brings with him a wealth of experience having worked in a number of roles including service and repair engineer to key account management and sales in the service and repair sectors of the industry.

In his new role he will be working closely with Webtec’s UK Sales team to support customers and grow sales from existing OEMs, distributors and resellers and will also be looking to develop opportunities with potential new customers.

On joining Webtec, Matthew commented, *“This is a great opportunity for me and I am pleased to be joining Webtec as it has great products and vision and I feel that I can make a real contribution to the company’s growth and continue to develop my own knowledge and career within the hydraulics industry.”*

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Actuation Valve release first in series range of AV Actuators® brand with the AV-LITE™

Actuation Valve release basic on/off range of AV-LITE™ quarter turn electric valve actuators as part of a wider development of the AV Actuators® brand with further products set to follow later this year.

The initial offering provides a quarter turn solution for most small bore ball and butterfly valves with torques available to 40NM.

The robust, engineered nylon unit features a direct mount platform for hassle free and speedy in house actuation with voltages ranging from 110VAC, 230VAC & 24VDC.

The lightweight housing is rated both waterproof and dust proof to IP67 and is resistant to heat, acid and alkali.

An efficient, compact unit offers low power consumption combined with an internal overheating protection device as standard and is tested to 80,000 working cycles.

Both the AV-02E & AV-03E models offer constant mechanical and visual position indication at the top of the actuator and can also be wired to a control box for signal feedback.

The AV-LITE™ range of electric actuators come equipped with a manual override device as standard which can be used in the event of a power failure for position adjustment should it be needed without having to remove the actuator from the valve.

Actuation Valve offer the AV-LITE™ as a stand alone unit or as part of an actuated valve package with stocks for various industries and applications.

The AV Actuators® brand and AV-LITE™ has developed over the last 5 years with growing demand for a varied range of both electric and pneumatic actuators from Actuation Valves' ever increasing customer base.

The AV-LITE™ range is capable of being offered in large project quantities or single units and is set to shake up the lower torque range of electric actuators currently available on the market.

For far too long users have had to accept over designed products for simple on/off quarter turn solution requirements and this is something that we are excited to change offering cost savings without a reduction in performance requirements.

All actuators are fully function tested at the factory and also in the UK prior to shipping with operational speeds and position indication feedback.

The AV-LITE™ is not a smart or bluetooth operated/programable actuator and therefore cannot be compromised through wireless technology which is requiring ever increasing security levels.

Whether you know the correct actuator model you are looking for or require help in sizing to suit your valve requirements and applications, Actuation Valve and the AV-LITE™ are here to help make your life a little easier.

Tel: 0151 547 1221
Email: sales@actuation.co.uk
Web: www.actuation.co.uk

Global reach with a local touch

AIV-Europe, a master distributor of valves and actuators to the Oil & Gas, Power Generation, Water, Waste Water and Pulp & Paper industries, has recently increased its stock position by 50%!

The company's Cambridge, UK location is currently receiving new Kitz inventory on a daily basis.

Coupled with their ever-expanding Bonney Forge inventory, AIV has become a reliable partner to fulfill the time-critical valve needs of their customers.

In addition, the company has increased inventory in their 10,000 square foot Dubai facility, and has a new 10,000 square foot stocking facility in Singapore due to open in the 3rd Quarter of 2019!

Globally, AIV continues to deliver a wide array of the top valve brands such and Velan, GWC, Crane, KF, Bettis and many more to their growing customer base. With additional stocking facilities in the United States and Canada, AIV's Global inventory totals a staggering £70M - with an additional £50M on order at all times.

This, combined with their model of selling through distribution only and offering around-the-clock service, has helped the company become a global leader in Valve and Actuation distribution.

AIV's offerings don't stop with sales. When needs can't be met with an off-the-shelf valve, AIV can provide Manufacturer Authorised Modifications.

Already providing modification services through their sister company, Gulf Coast Modification, in 2015 AIV-Europe acquired fellow BVAA Member and Suffolk-based, ADANAC Valve Specialities, a respected organisation with more than 30 years of local industry service and unparalleled expertise.

With their massive global inventory, global testing and modification capabilities, and support to every industry, customers know they can count on AIV-Europe to deliver globally - with a local touch!

Globally, AIV continues to deliver a wide array of the top valve brands

ALOYCO · Apollo Valves · BETTIS · BONNEY FORGE · CENTER LINE · CRANE · FLOWSEAL · FLOWSERVE · Nordstrom Valves · Edward Valves · GWC · KF · KITZ · PACIFIC VALVES · PK · SVM · VELAN · Vogt · WESTLOCK CONTROLS · XOMOX

AIV

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The new J4CS by J+J - Available from stock at Hydravalve

The new J4CS series of electric actuators from the innovative European manufacturer J+J is now available from stock at Hydravalve, who are the only official UK and Ireland distributor for J+J.

With its unrivalled and patent pending 24-240V AC/DC multi voltage technology, the impressive J3C series philosophy has got developed further and includes new features that will benefit the user without any drastic increase in price.

The J4CS now includes brushless motor technology which increases the efficiency and lifespan of the actuator.

The means for the first time in J+J's history, the European manufacturer have issued a 3-year warranty from shipment date or up to 60,000 working cycles. This is a revolution to the industry and true confidence in the quality of the actuator.

Previously with the larger models of the J3C, the user would need to specify whether they required 24V AC/DC or 110-240V AC/DC (H or L model).

This has now been developed and all models in the J4CS series are now true multi voltage 24-240V AC/DC. This is an advantage to any engineers with the protection against any incorrect electrical supply, as the risk of burning out an electric actuator by applying 110 or 240VAC to an actuator that is 24V rated is eliminated.

Additional new features include a Bluetooth option, where configurations are now possible via a mobile or tablet device, compatible with both IOS and Android.

These include local control, read parameters, check errors and monitor live actuator status.

The communication is encrypted between all devices and can connect to a maximum of 50 devices within a maximum distance of 20m.

The J4CS also includes a Modbus additional option. Designed for the process and water industry, this new option allows the user to operate individual actuators manually inside or outside a plant due to the extensive distance range from WiFi.

Devices such as control panels, tablets, mobile phones and PCs can be connected to the Modbus.

Can your current actuator offer this?

For more technical information or pricing, please contact our sales team.

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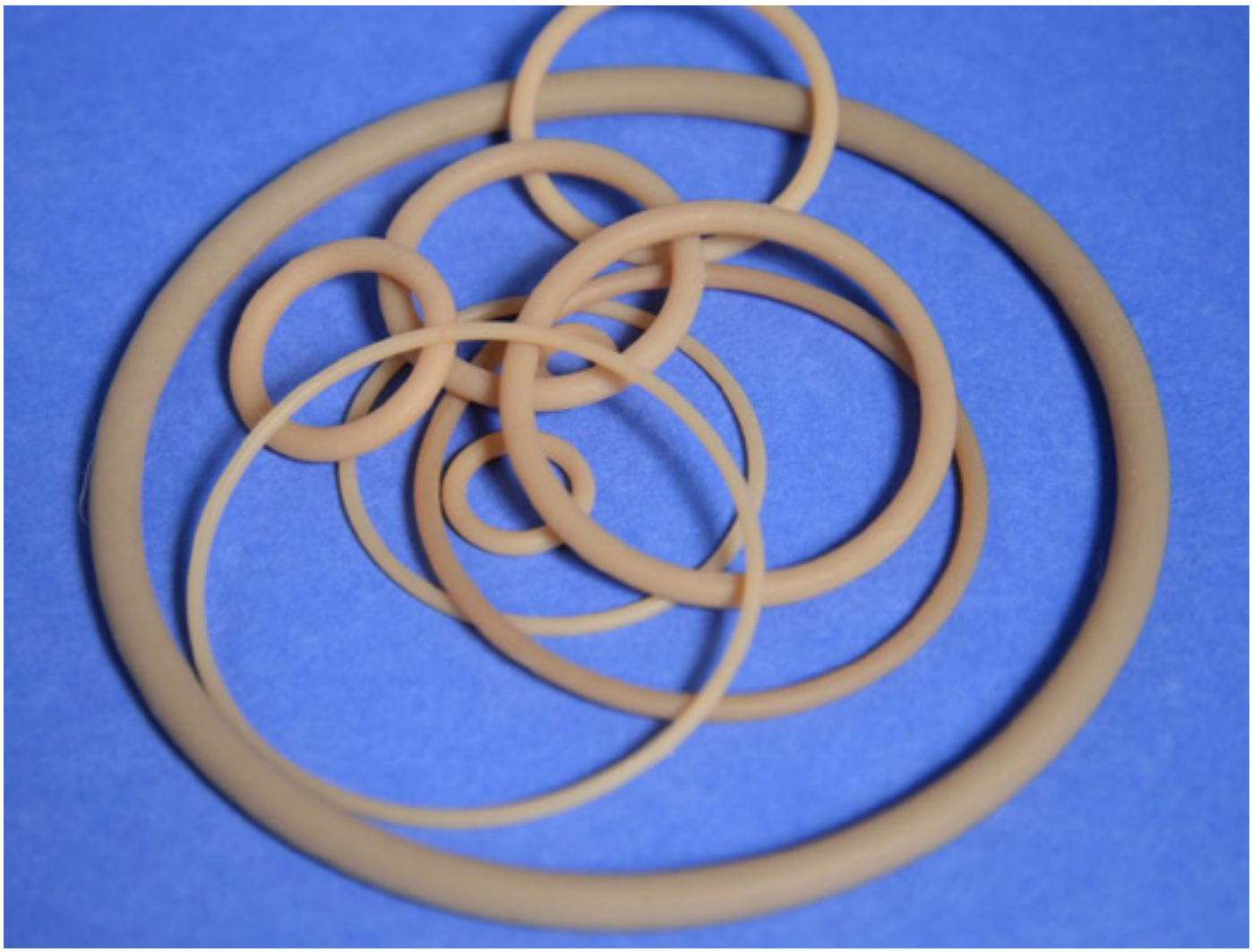
Seals deliver long life in chemical processing applications



Based on a proprietary and patented crosslinking system that has been developed specifically for the chemical processing industry, DuPont™ Kalrez® Spectrum™ 7275 seals exhibit minimal swelling and improved retention of physical properties when exposed to aggressive chemicals such as concentrated nitric acid, organosilanes, chlorosilanes, pure ethylene oxide, butyraldehyde, amines, vinyl monomers and acrylic monomers. Kalrez® 7275 seals are available in the UK from authorised distributor Dichtomatik Ltd.

Any process plant that uses chemicals as an inherent part of its operations knows the importance of reliable, long-lasting seal technology. With Kalrez® 7275, which is a special perfluoroelastomer product, users enjoy excellent compression set resistance and good retention of physical properties after ageing at high temperatures.

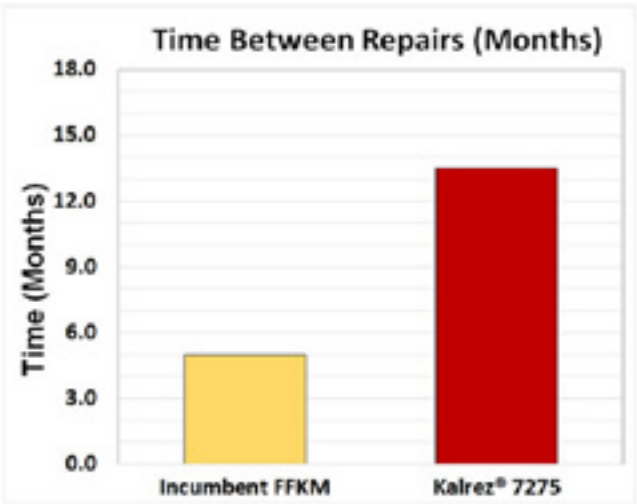
In fact, the seals will deliver a higher level of performance in any aggressive chemical processing application with temperatures up to 300°C, especially where high resistance to strong oxidisers such as nitric acid, chlorine and chlorine dioxide is required.

Among those able to vouch for the benefits of Kalrez® 7275 is a paper mill in North America that relies on chlorine dioxide for its pulp bleaching operations.

The paper mill was experiencing frequent failures of a pump handling chlorine dioxide in water.

According to the reliability engineer, the incumbent non-black FFKM seal typically failed within 5 months of installation because of the extremely aggressive nature of the stream.

However, following replacement of the seals with Kalrez® 7275, seal life doubled to more than 12 months, removing the pump from the paper mill's list of "*bad performers*" and into routine yearly maintenance.



Increasing the MTBR (mean time between repair) in this way contributes to reduced maintenance costs and longer equipment life, while improving process safety.

Aside from pumps, Kalrez® 7275 will benefit many other applications which depend on mechanical seals as part of their critical processes, including valves, compressors, filtration columns and analytical equipment.

Uniquely identifiable by its light brown colour, Kalrez® 7275 offers: a Shore hardness (A) of 75 (on the slab) and 81 Shore M (on the O Ring); 100% Modulus of 9.7 MPa; tensile strength at break of 14.5 MPa; elongation at break of 160%; and compression set of 22% (70 hours at 204°C).

The product is available in a broad series of standard O-ring sizes and custom parts for a wide range of sealing applications.

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Albion expands range of hydronic balancing valves

The Yorkshire-based company, Albion Valves (UK) Ltd, has extended its range of hydronic balancing valves with the introduction of a fixed orifice double regulating valve (FODRV).

The new ART 255 combines two core system components into a single valve – a double regulating valve and an orifice plate – meaning it provides a cost-saving, speeds up installation time and reduces the number of potential leak points, when compared to its two-part alternative.

The ductile iron valve is 16 bar rated and is available from 2″ to 12″ and has an operating temperature range of -20°C to +120°C. The new valve provides an alternative to Albion's existing ART 250 and ART 270 – which is their double regulating valve and orifice plate option.

The ART 255 complements an already comprehensive range of balancing valves and controls, which are often used on large building services projects. The valve has joined the other hydronic balancing valves on Albion's sizing program, enabling their knowledgeable team to provide support with schedules and assist with any sizing issues, in a timely manner.

Les Littlewood, Albion's Sales and Marketing Director comments: '*It is important for us to adapt our range in line with the ever-changing environment that engineers are operating in.*

In recent years, engineers have been under pressure to save space, reduce costs and create more efficient systems and that has resulted in an increase in the use of hydronic balancing systems. Our new FODRV aims to solve some of these common issues by combining two important components into one valve, therefore saving space, providing a cost-saving and allowing for a quicker installation.'

The hydronic balancing range forms only part of Albion's offering, which has grown year-on-year since the company was founded over 25 years ago.

Their portfolio aims to supply a complete valve solution to the building services, process and industrial markets and includes a public health range as well as other manual and actuated valves.

As with all of Albion's range, the ART 255 is available for next-day delivery when ordered before 4PM. For more information, visit the Albion website at **www.albionvalvesuk.com** or call them on **01226 729900**.

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Our new workshop situated in Saltend Chemicals Park, Humberside, is now open for business. This unique facility will be a one stop shop providing valve repair, valve supply and onsite services to the chemical park and surrounding areas, alongside providing support to our existing facilities.

Score (Europe) Limited has 37 years' of experience, providing an extended range of valve services to offer the concept of Total Valve Management to valve users in a range of industries. We are committed to providing a world class service and cost effective solutions.

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humberside.support@score-group.com

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Score Group Headquarters:

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+44 1779 480000

customersupport@score-group.com

Score encourages future talent at annual engineering competition

Competitors in the 2019 Scottish Engineering craft competition

For decades Score Group plc's apprentice valve technicians have competed in the Scottish Engineering Craft Competition and the company has now sponsored the prestigious event for over ten years. This year saw the annual competition being hosted by Fife College on Thursday 20th June.

The competition brings together Scotland's finest 1st year engineering apprentices working in a variety of sectors, to compete for either the Mechanical or Electrical title.

The competition showcases the high level of talent evident in Scotland's young Engineering workforce; with many of the participants employed by companies within, or providing services to, the energy industries.

This year 19 apprentices from 10 EAL (Excellence, Achievement & Learning Limited) approved training centres across Scotland travelled to Fife to compete, from North Highland College to Border Engineering Training Association.

These training centres competed against various others, including Tullos Training, Angus Training Group, East Kilbride Group Training Association, Edinburgh College and North East Scotland College.

Each apprentice is nominated to represent their college or training centre due to outstanding efforts shown during their first year.

One of Score's apprentices competing in the mechanical category

Score Group apprentices from both the Peterhead headquarters and Cowdenbeath facility competed; representing Peterhead Engineers Development Limited and Fife College respectively.

The demanding competition is held over the course of one day, pushing apprentices to demonstrate a high degree of technical knowledge and practical skill.

Entrants completed a series of practical tests and written papers on two chosen disciplines - These will be marked by training staff within the host college and validated by an external verifier.

Addressing competitors and their mentors at a pre-competition dinner on the eve of the event, Score Group Director, Conrad Ritchie said:

"*This competition has now been running for 29 years and during that time it has rewarded effort, dedication and talent."*

"*I'm a great supporter of this event. Having started my journey 31 years ago, I understand its worth and the real benefits of an apprenticeship. It's a great foundation and you must grasp the opportunity, make the most of it. Apply effort and you will reap the rewards.*"

Score Group looks forward to announcing the winners and runners-up in each category and to hosting the awards ceremony later in the year.

Score is committed to growing the future engineering workforce, particularly in the valve industry, and will continue to invest in encouraging apprentices by keeping this significant competition running.

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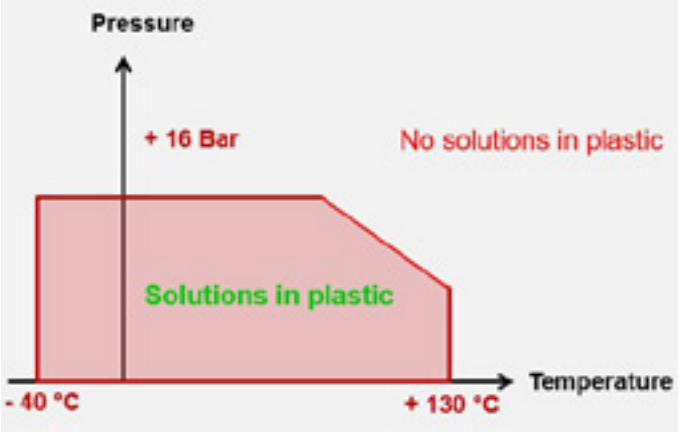
Practical weight and cost savings

Corrosion resistant polymer liners for metal valves have been successfully used by the oil and gas industries for many years.

The main reasons for the success of these options is due to the extension of valve life and increase operating productivity of a pipeline, whilst being a cost-saving alternative to corrosion allowance or corrosion resistant alloys (CRA).

But did you know that there are full thermoplastic alternatives?

SAFI manufacture and distribute thermoplastic valves designed to work with the most aggressive envirnoments and chemicals with practical solutions for applications up to 16 bar and -20°C to +120°C.



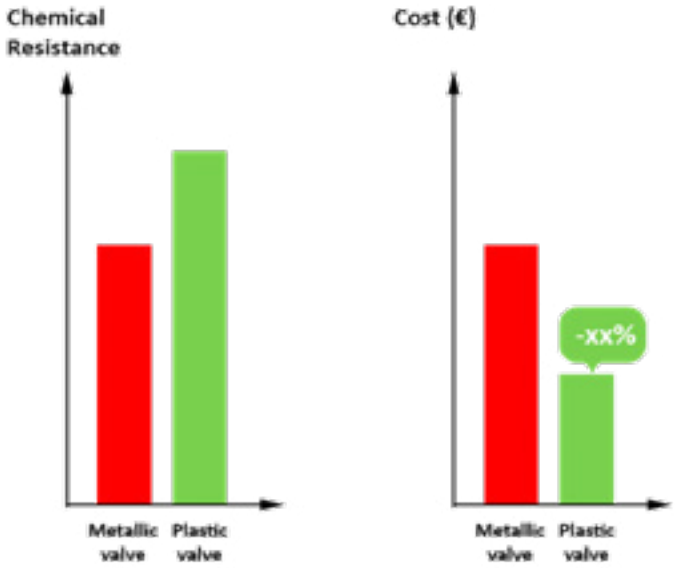
The Oil and Gas market have many processes that require the use of chemicals and its facilities and they are often exposed to bad weather and to UV to which the SAFI valves are perfectly resistant thanks to the quality of their thermoplastics and elastomers.

Corrosion resistant metals are very expensive but working with thermoplastics isn't all about the significant cost savings, there are practical weight benefits to consider too, something that even lined metal valves cannot offer – tie that in with the corrosive resistance and you are faced with a practical and wholly efficient solution.

The Oil and Gas market are not strangers to SAFI – we work worldwide with brands such as Total, Shell, Petronas and AGIP who have trusted SAFI for decades when trying to find a product from our extensive product range which is suitable for their application.

The SAFI product range is suitable for the oil & gas sector in the following applications:-

- Offshore platforms and on shore extractions
- Electrochlorination
- Waste water, drinking water, demineralized water skids
- Prevention of contamination of the marine environment
- Refineries
- Alkilation process
- Dozing plants
- Scrubbers
- Treatment of effluents
- Chemical injection skids
- FPSO
- Sodium hypochlorite processing



Focus application: Sodium Hypochlorite injection into the oil wells

On FPSOs, buildings for oil exploration and exploitation, sea water and brackish water are used to put pressure on oil and are injected into the wells. Sea water needs the injection of sodium hypochlorite to avoid the contamination of marine life, the risk of scaling or corrosion in the injection lines. This bleach is normally obtained by electro chlorination on board the FPSO.

Thermoplastic valves are particularly popular on applications using sodium hypochlorite because the NaOCL is a powerful oxidant and highly corrosive. The PPH or PPGF are preferred at room temperature and PVDF in temperatures up to 60°C. Past that, sodium hypochlorite begins to decompose.

On marine installations, the thermoplastic valves also have the advantage of withstanding external corrosion. The construction of SAFI flanged ball valves adapts particularly well to the oil & gas installations which privileges flange connections.

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Webtec (Europe) GmbH created to strengthen focus on Europe

Webtec Opens German Office to Develop New Business Opportunities Inside Europe

Webtec, a specialist manufacturer of hydraulic measurement and control products has announced the formation of Webtec (Europe) GmbH, a new company located in Leverkusen, near Düsseldorf.

The strategic focus of the new company is to help improve the productivity of heavy machinery by assisting European manufacturers and associated supporting companies deliver a better service with Webtec's high-pressure hydraulic measurement and control solutions.

The company, headed by Martin Cuthbert, Webtec's Managing Director, has recently appointed Patrick Neubert in the new positon of Business Development Manager for Europe.

Patrick brings a wealth of technical and industry experience to the role having gained a Dipl. Ing, from the University of Applied Sciences Bonn-Rhein-Sieg and with over 12 years spent working in the hydraulics and fluid power industry in a variety of specialist sales and product marketing roles.

Webtec (Europe) GmbH will service customers throughout Europe in conjunction with Webtec's regional office in Northern France and will operate in a similar way to Webtec's other territory subsidiaries in the USA, Asia and the UK.

The team, who will be fully operational in the last quarter of 2019, will be looking to support and grow the European distributor network as well as working more closely with OEM's in the fluid power, construction, mining and agricultural machinery sectors.

On announcing the new company, Martin Cuthbert, Webtec's Managing Director commented,

"We spoke to a many key customers throughout Europe and there was an overwhelming positive response to having a company registered in Germany. Not only will this make future trading seamless but means we are ideally placed to offer customers local support and creates great opportunities for business growth."

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Coax - designers and manufacturers of Coaxial Valves

Muller Coax are the original designers and manufacturers of coaxial valves having established the company and product in 1960, and are established in many industry sectors supplying valves to many diversified blue chip companies and organizations worldwide including Siemens, Rolls Royce, BNFL, and many automotive plants where the valves are specified for use.

From their head office and main manufacturing plant in Germany, Coax have wholly owned companies in USA (also manufacturing base), UK, Spain, Italy and China, and distributors worldwide to support our customers wherever they may be.

Muller Coax product range includes products for many industry sectors including; power generation automotive plants, nuclear industry, military, pumping applications, machine tools.

Valve range have valves for medias up to 500 bar, 2/2 and 3/2 function, Atex compliant, fast reaction time, various body materials, position indication and all are SIL2 rated as standard with SIL3 certified available on many types.

Due to the design of the valve, where the media passes unimpeded straight through in a coaxial manner, there is no pressure loss across the valve also this allows the valves to handle contaminated media where many conventional valves would fail due to ingress of dirt.

The size of the valves vary but all are known for their fast reaction time with the smaller MK10 valve able to do a complete open / close cycle in 60 milliseconds.

Muller Coax are an ISO 9001:2015 accredited company.

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BS EN ISO 4126-1:2013 + A2:2019 "*Safety devices for protection against excessive pressure - Part 1: Safety valves*" - amended standard issued

What is it?: This part of ISO 4126 specifies general requirements for safety valves irrespective of the fluid for which they are designed.

It is applicable to safety valves having a flow diameter of 4 mm and above which are for use at set pressures of 0,1 bar gauge and above. No limitation is placed on temperature.

This is a product standard and is not applicable to applications of safety valves.

Why is it important?: The amendment is made in response to the formal objection raised by France that the Annex ZA as published in Amendment 1 did not meet the requirements of the Pressure Equipment Directive 2014/68/EU Annex 1 Clause 3.3 marking and labelling.

This amendment modifies Annex ZA deleting the claimed compliance to Annex 1 Clause 3.3 and updating the Annex ZA to the new agreed format.

The amendment therefore only affects the European part of the standard.

Supersedes: The 2013 version +A1:2016 is superseded.

Environmental and Health & Safety accreditation for Valve specialist Orseal

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A CITATION COMPANY

ISO 45001 REGISTERED

This document certifies that the occupational health and safety management systems of

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have been assessed and approved by QMS International Ltd to the following occupational health and safety management systems, standards and guidelines:-

ISO 45001: 2018

The approved occupational health and safety management systems apply to the following:-
STOCKHOLDING, MODIFICATIONS AND ASSOCIATED TESTING OF VALVES AND FITTINGS, PROJECT MANAGEMENT OF PACKAGED SYSTEMS FOR VALVES, ACTUATORS AND ASSOCIATED EQUIPMENT

Original Approval: 07 May 2019
Current Certificate: 07 May 2019
Certificate Expiry: 06 May 2020
Certificate Number: 317932019

On behalf of QMS International Ltd

This Certificate remains valid while the holder maintains their management system in accordance with the published standard. To check the validity and status of this certificate please email certificates@qmsuk.com

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This document certifies that the environmental management systems of

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Lynstock Way, Lostock, Bolton, Lancashire BL6 4QR

have been assessed and approved by QMS International Ltd to the following environmental management systems, standards and guidelines:-

ISO 14001 : 2015

The approved environmental management systems apply to the following:-
STOCKHOLDING, MODIFICATIONS AND ASSOCIATED TESTING OF VALVES AND FITTINGS, PROJECT MANAGEMENT OF PACKAGED SYSTEMS FOR VALVES, ACTUATORS AND ASSOCIATED EQUIPMENT

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Current Certificate: 07 May 2019
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Demonstrating their proactive approach to environmental performance and to staff health and safety, Orseal are now accredited to both ISO 14001 and ISO 45001. Following the company's rapid transition to the latest version of ISO 9001:2015, these new accreditations complete Orseal's commitment to the highest standards of Quality, Health & Safety and Environmental policies.

ISO 14001 is the internationally-agreed Standard setting out the requirements for an environmental management system, helping organisations to manage, control and improve their environmental performance. Companies following the Standard must consider all environmental issues relevant to their operations, such as air pollution, water and sewage, waste management, soil contamination, climate change mitigation and adaptation, and resource use and efficiency. ISO 14001 has been revised recently, with an emphasis on environmental management within the strategic planning process, greater input from leadership and a focus on proactive environmental initiatives.

A single set of international requirements to help protect workers, ISO 45001 is the world's first international Standard for health and safety, developed by experts from 69 countries in liaison with key organisations including the International Labour Organisation, the International Trades Union Confederation and the International Organisation of Employees. As a framework to increase safety and reduce workplace risks, the Standard is designed to improve health and well-being at work, and was developed to mitigate factors that can cause irreparable harm to both employees and to businesses. Dennis Crompton, managing director at Orseal, explains the benefits of going through the assessment and accreditation process for these two Standards,

"*As a company with customers worldwide and a global supply chain, Orseal's reputation for safety – whether at our premises or on-site with customers - is of paramount importance and we need to demonstrate our credentials in a clear and consistent way. Certification – to the latest occupational health and safety guidelines and standards available – provides unequivocal evidence of our commitment to the safety and well-being of staff and visitors, alike.*

Achieving the Environmental Standard has been equally important to us. A strategic focus on the efficient use of resources and on waste reduction gives us a competitive advantage, while also enhancing Orseal's reputation with stakeholders both within the company and externally."

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ValvTechnologies continues global expansion with new UK representation

ValvTechnologies, Inc., the global leader in the design and manufacturing of zero-leakage severe service isolation valve solutions, is pleased to announce it has signed a representative agreement with Gestra UK Limited, a leading provider of flow control valves and systems for heat and process fluid control.

The addition of Gestra UK significantly strengthens ValvTechnologies' power generation business in the UK, expanding its international reach to England, Wales, Scotland, Northern Ireland, Isle of Man, Jersey and Guernsey.

Gestra UK will be representing ValvTechnologies' products and services including but not limited to V Series metal seated ball valves, IsoTech® parallel slide gate valves, Xactrol® control valves and more.

"We are excited to include Gestra UK as part of our representative network in the UK," comments Bill Henwood, ValvTechnologies' Industry Director.

"This addition to our network means we can continue to deliver a range of innovative solutions to our customers on a global scale."

To learn more about Gestra UK Ltd., **visit: www.gestra.com**
For ValvTechnologies' representative network, **visit: http://www.valv.com/resources/distribution-network/**

About ValvTechnologies
Founded in 1987 and headquartered in Houston, Texas, ValvTechnologies is the leading manufacturer of zero-leakage, high-performance isolation valve solutions.

The company provide an unsurpassed level of severe service isolation services and reliability to customers in the fossil power, nuclear generation, upstream oil and gas, downstream and chemical processing.

They also cover mining and minerals, pulp and paper and other specialized industries.

Employing more than 400 people worldwide, ValvTechnologies has offices in:-

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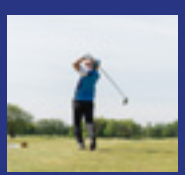

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EnerMech apprentices to the ‘four’

Opportunities to work internationally

EnerMech are looking to recruit up to four apprentice engineers into their UK business who will have opportunities to work internationally as they progress up the career ladder.

The Aberdeen-headquartered mechanical and electrical services specialist has a strong track record of training young people who have gone on to make a significant impact on the business and in future years take up senior positions.

To date, at least 20 former apprentices have graduated from EnerMech’s UK apprentice scheme, with some working offshore in the North Sea, others in key posts in Angola, the Democratic Republic of Congo and Egypt, while a number have developed careers in project management.

The prospective apprentices will have spent at least one year in a college based environment and demonstrated a commitment to a career in engineering by obtaining a Performing Engineering Operations qualification or a relevant National Certificate.

The successful applicants will be sponsored by EnerMech to complete their Modern Apprentice training up to NVQ Level 3 at college, combined with on-the-job training over the next three years.

EnerMech’s Director of Human Resources, Shirley Smith, said various routes were open to EnerMech apprentices, who could opt to work in traditional offshore roles as technicians or as onshore project engineers, which could lead to taking a Graduate Apprentice course at The Robert Gordon University.

Shirley Smith said:-
“Our apprentices are limited only by their ambition and we actively encourage every one of them to reach their full potential. We believe apprentices are the lifeblood of an organisation like EnerMech, and by the end of their apprenticeships they will all have gained a comprehensive understanding of our business objectives and can go on to play an important role in the growth of the company.”

One of EnerMech’s first apprentices started off working in the *“Flying Squad”* as part of an agile team deployed on major offshore projects, later took on an onshore project engineer role and is now one of the company’s lead contract support engineers.

Another former apprentice is currently working as a supervisor in Ghana, while EnerMech’s first female apprentice is no longer workshop based and has been promoted to a project co-ordinator position.

Shirley added: *“Supporting an apprenticeship is a significant financial investment but we believe it is important to encourage young people to have careers in the energy sector. We are looking for candidates who are committed and will stay the course and grow their careers as the business continues to grow globally. In return we will provide the highest levels of training and support their personal and career development so they can get the best out of a rewarding career.”*

EnerMech employs 3,500 staff across 40 locations in the UK, Norway, the Middle East, Caspian, Asia, Africa, Australia and Americas, working on large scale projects across the oil and gas, LNG, renewables, defence, power, infrastructure and petrochemicals sectors.

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Do you recognise the implications of this symbol with regards to valves?

This innocuous looking logo denotes approval to EC Directive 1935/2004 or MOCA for materials in contact with food.

Any valves that carry foodstuffs or convey air or gas into foodstuffs, should carry this to prove that they have been tested and are in accordance with the standard.

The standard was developed to increase food production standards by eliminating potentially harmful contamination caused by chemical migration or leaching from materials into the product.

Analysis has proved that the incidence of health warnings originating from contamination through chemical migration of food contact materials, has increased from 18% to 25% in the 2 years from 2015 to 2017, leading many manufacturers to actively pursue MOCA compliance for their processes.

Recently a new decree, 29/2017 was introduced that sanctioned penalties up to €80,000 for violation of the European legislation relating to Materials in Contact with Food (MOCA), which strengthens the argument for ensuring that any valves installed in food processes either carry this symbol or are clearly marked For Food Contact.

MOCA testing concentrates on practical determination of chemical migration from materials and is similar in principle to WRAS testing to avoid materials tainting the taste of potable water.

This is very different to EHEDG testing which is to ensure items can be reliably cleaned in place through SIP processes. Not all food processes require EHEDG or 3A testing but when considering the supporting processes in a food plant, many more do actually have direct or indirect contact with food components and would benefit from the security of MOCA certified valves and knowing that they are tested to prevent harmful contamination.

Some typical applications where MOCA certified valves would be recommended are filling machines, foodstuff conveyance, cooling, food preservation and pre-fill cleaning of bottles, moulds and packages.

ID Insert Deal Srl already has a range of 316L stainless steel pressure regulators from ¼″ to 2″ available with MOCA certification and is working through the 3rd party testing schedule to further increase this range by the end of 2019.

Are you or do you know someone else, who is at risk of an €80,000 fine for non-compliance?

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New things are coming to Leengate Valves

Over the past decade Leengate Valves have seen spectacular growth as the UK's leading valve wholesaler - this growth has promoted impressive expansion across all departments; including the addition of two large warehouses and the unveiling of their dedicated distribution building.

Aside from the huge increase in square footage and the development of their stock profile, another area of the business that has seen major change is their Engineering and Actuation Centre.

Leengate Valves Engineering and Actuation Centre has grown, year on year; adding new services for its customers - such as their handle printing and stainless steel tagging - and taking on bespoke and specialised projects to an exceptional standard.

General Manager, Arran, said *"We're really proud of the way our actuation capabilities have grown over the years. We've seen a vast increase the number of actuation options we offer and our customers have responded really well to that. We're exploring new options all the time and you can expect to see exciting new things coming very soon."*

Leengate Valves' current actuation options vary from pneumatic on/off spring return actuators to electric modulating and battery back-up units; and, with the capacity to stock hundreds of products, most assemblies can be built, tested, and despatched on the same day they're ordered.

Experienced Engineer and Actuation Sales Person, Joe, said *"We strive to be the best supplier of actuated products in the UK. Our variety of options, speed of service, decades of expertise and huge stock holding make us hard to beat on service, as well as price."*

He added, *"When customers order actuation products from stock late in the afternoon, they're always amazed when we tell them they can have their product delivered the following day. Ensuring we have happy customers is what we're all about."*

With new products on the horizon, Leengate Valves look to be continuing to cement their position, not only as the UK's market leader in valve wholesale, but also as a leader in the field of Valve Actuation and engineering services.

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Valve-Gears offer a wide range of gearboxes spanning the following categories:

Quarter Turn Gearboxes

Heavy duty IP67 cast and ductile iron quarter turn gearboxes suited for ball, butterfly and plug valves serving the gas, water, chemical and power industries.

These range in torque from 150Nm to 32,000Nm.These can also be adapted to suit non-ISO valves and can be fitted with various switchboxes and accessories.Other options are IP68, full 316 ss enclosure and High and Low temperature applications.

Multi Turn bevel Gearboxes

A complete range of IP68 cast iron multi-turn bevel gearboxes suitable for hand and motorised operation.

Applications include rising and non-rising gate, globe and pinch valves.

All can be fully adapted to suit your needs and can be supplied with Penstocks, pedestals and extension position indicators and limit switches. These range in operating torques from 380Nm to 10,846Nm.

Other options include IP68 enclosure.

ILGD Declutchable manual override quarter turn Gearbox. A complete range of IP65 cast iron manual Declutchable quarter turn gearboxes to fit between the valve and actuator to manually operate the valve in the event of loss of air to the actuator.

These gearboxes are specifically designed to work on double acting actuators but can also work on spring return actuators.

These range in operating torques from 250Nm to 17,000Nm. All ILGD gearboxes comes with the adaptions you need to easily fit to your valve and actuator combination.

Other options include IP67 enclosure, High and Low temperature applications, solenoid valve to automatically exhaust the air from the actuator chamber.

ILGS Override quarter turn gearboxes

A complete range of IP65 cast iron Override quarter turn gearboxes to fit between the valve and actuator to manually operate the valve in the event of loss of air to the actuator. These gearboxes are specifically designed to work on Spring Return actuators to allow the valve to be opened or closed in the event of air loss.

These range in operating torques from 330Nm to 32,000Nm. All ILGS gearboxes comes with the adaptions you need to easily fit to your valve and actuator combination.

Other options include IP67 enclosure, High and Low temperature application.

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Emerson smart NEW INNOVATION

To improve safety, reduce operational costs, and improve production

Emerson Automation Solutions launched multiple NEW products at this year's Valve World Americas Expo & Conference, at the George R. Brown Convention Center, Houston, Texas, from June 19-20.

Emerson launched its NEW Bettis XTE 3000 Electric Actuator - a compact, high-reliability absolute encoder, which guarantees position detection even without main or internal battery power.

The Bettis Stainless Steel M Series Actuator celebrated its 30th anniversary of the first stainless steel scotch yoke actuator.

The Bettis M Series was introduced by Morin in 1989 for applications including mining, offshore, water/wastewater, chemical, refining, food & beverage and pulp & paper.

This is a reliable high-cycle, high-frequency and high-speed actuation solution.

Also NEW is the Bettis Valve Operating System™ (VOS) turn-key solution that includes actuator, air filter regulators, relief valves, solenoid valves, limit switches, and positioners.

Want to know more about IIoT and Connected Services?

The new Emerson Connected Services display will show you how our digital ecosystems, intelligent planning and wireless actuator control work together to reduce maintenance and unplanned downtime.

Emerson's discrete valve control and GO™ Switch position sensing technology provides absolute assurance in the most challenging applications, and increases reliability, profitability and reducing down time.

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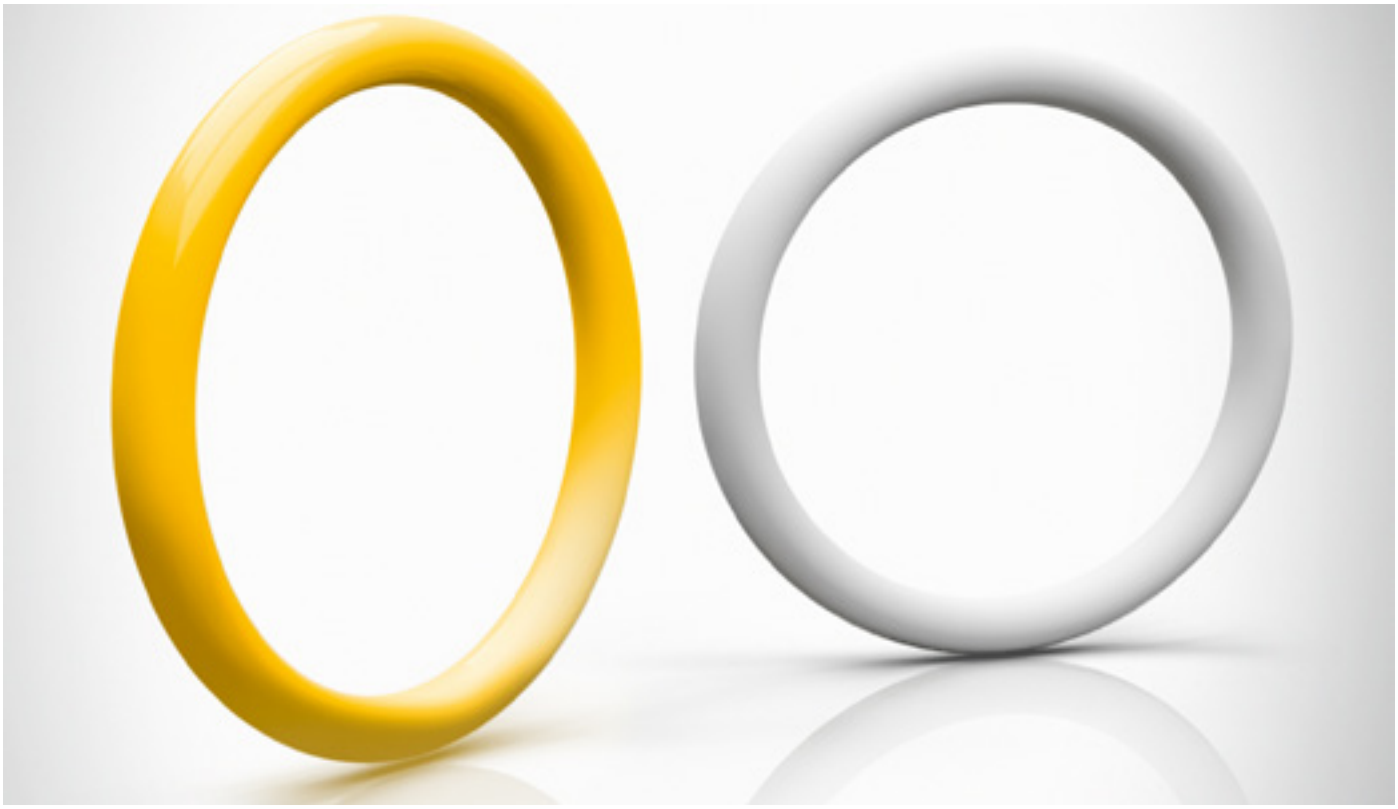

The seal, materials and coating specialist delivers important value-added with powerful coatings specifically developed for elastomeric products

The Engineered Materials Group of Parker Hannifin Corporation, the global leader in motion and control technologies, as part of its extensive portfolio of materials and products offers coatings of the ParCoat® family specifically developed for elastomeric products. They facilitate assembly and, as a result, ensure reliable and long-lasting seal performance.

During assembly processes, there is a risk of seals that look near-identical but have different functions being mixed up. Another risk is that of seals being damaged during installation due to high assembly forces. Typically going undetected initially, both of these potential error sources may lead to premature failure of the entire sealing system with respective consequential errors and costs.

In addition, high-volume manufacturing of elastomer seals supplied as bulk material that is separated in conveyor systems entails the risk of seals sticking together. The resulting stacking of sealing elements may lead to in-process trouble up to and including line standstill.

Easy and Reliable Installation Due to Systematic Modification of Surface Properties

With ParCoat® coatings the surface properties of elastomeric components can be systematically modified and optimized. They are suitable for all commonly used elastomer grades and clearly reduce assembly forces, among other things. For instance, with standard connectors on automotive air conditioning systems, a reduction by 50% and more can be achieved compared to uncoated O-rings or O-rings with other coatings.

Clean separation, depositing and feeding in high-volume production is ensured by choosing a respective ParCoat® coating as well.

Color Coding Prevents Mix-ups

Various coatings in colored and transparent versions are available, depending on the application requirements. Colored versions serve to mark products and to avoid mix-ups. In addition, for corporate identity purposes, elastomer seals may be coated in the customer's corporate color.

Especially for small or special production series, for which the development of a respectively colored material is not economically feasible, ParCoat® coatings are an easy and cost-effective way to provide elastomeric components with the desired color. On the other hand, transparent versions are used to coat colored basic compounds when the basic color must not be altered.

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Web: www.parker.com/praedifa

The best metal butterfly valve lining for demanding media?

Lining a metal butterfly valve with a thermoplastic material, typically a fluorocarbon, means that media does not come into contact with any metal parts. This is particularly useful where corrosive liquids are being handled – for example, effluent, sludge or corrosive chemicals.

Thermoplastic liners are also chemically inert. This is useful where high purity media is required, for example in pharmaceutical and semiconductor high purity water applications.

Common valve lining materials

The main lining materials used for metal valves are:
- PTFE (PolyTetraFluoroEthylene)
- PFA (PerFluoroAlkoxy)
- TFMTM

PTFE liners are isostatically compression moulded from sintered chips. PFA linings are melt-processible which provides a far less permeable liner that can also be precisely moulded. TFMTM PTFE incorporates a PerflouroPropyl Vinyl Ether (PPVE) modifier to the PTFE. This is a more advanced material which has the following improvements to PTFE.

- Reduced cold flow by factor of 3
- Firmer polymer structure
- Less permeable (factor 2) for chemicals and gases
- Weldable
- Smoother surface for machining
- More transparent
- Injection mouldable in special cases

The advantages of PFA and TFMTM lined butterfly valves are that they:

- work well with most corrosive media to protect metal butterfly valve parts
- can outperform more expensive alloy valves
- are suitable for multiple-product processing lines being unaffected by media changes
- are seldom affected by process temperature variations
- are virtually impermeable

PFA and TFM Lined butterfly valves

GEMÜ 490 series lined metal butterfly valves are available with a moulded PFA or TFMTM body liners. These linings are achieved using the latest plastic injection moulding machines to form a precise lining locked to the valve body. This is integral to the valve's corrosion resistance.

Special silicon backing

As can be seen in Figure 1 the valve body liner is backed by a specially design silicon rubber backing which provides the forces needed for effective media sealing downstream.

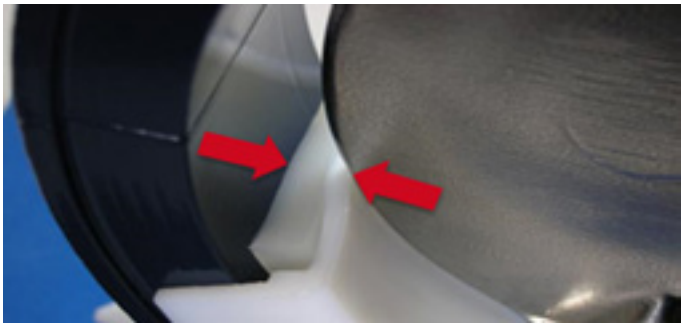

Figure 1 – Special design liner support

Special shaft seal system

Chemical handling requires specialist sealing to prevent leaks to atmosphere. A special 4 fold shaft seal system (Figure 2) is also incorporated to prevent dangerous media leaks.

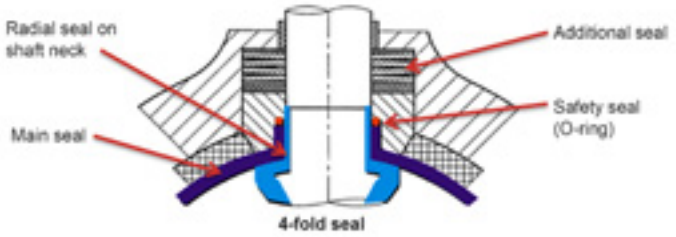

Figure 2 – Special design shaft seal

GEMÜ 490 series key features and benefits:-

- High performance PFA or TFMTM lined metal butterfly valve
- Wide range of sizes from DN40 to DN900 (1½″ – 36″)
- PN3/10/16 bar media rated (depends on size)
- Suitable for use with temperatures up to +200 degrees Celsius
- Pneumatic, Motorised, Manual and bare shaft options
- Ideal for the distribution of Corrosive Chemicals, Effluents and Slurries
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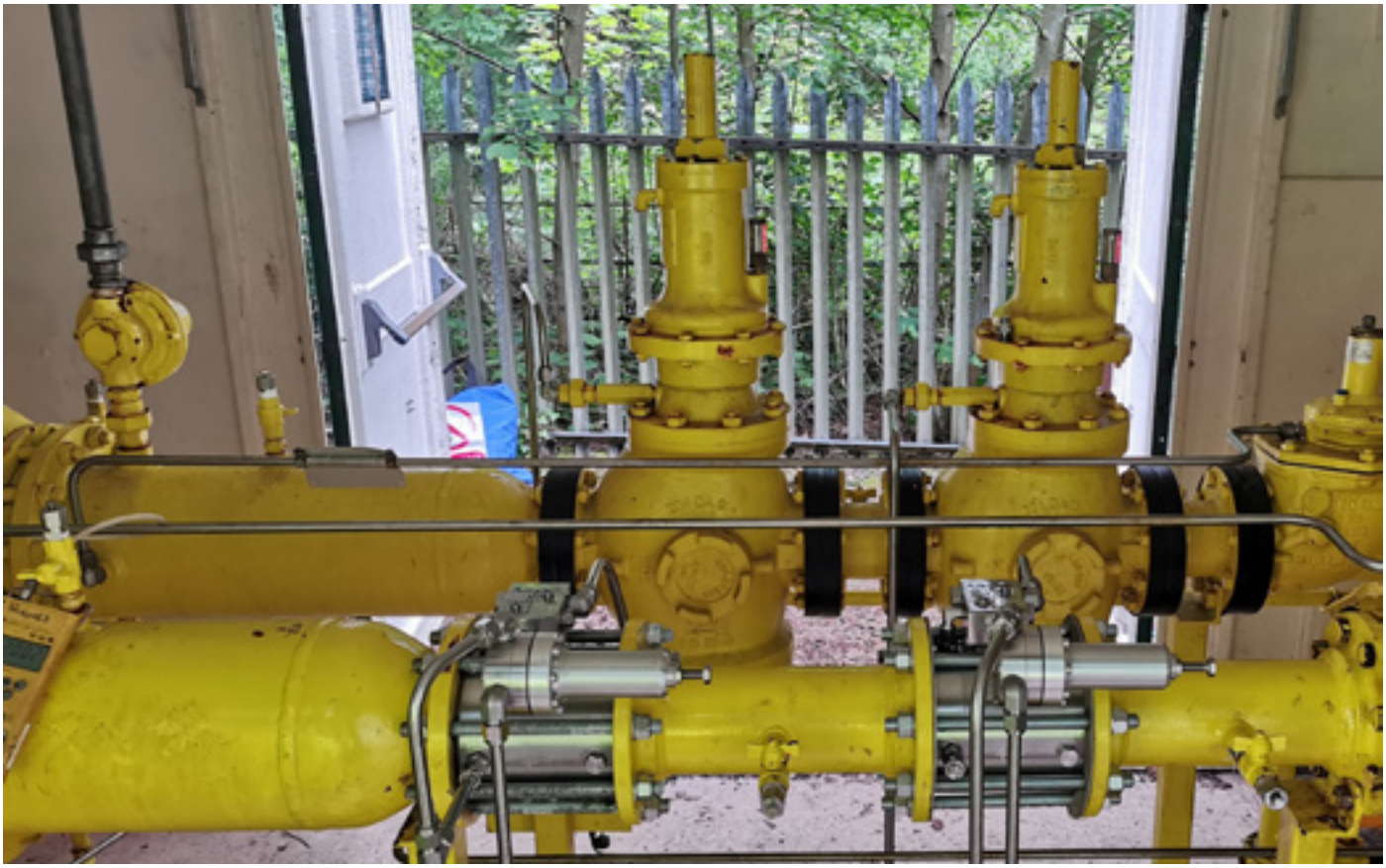
Oxford Flow's SGN field trial to improve performance and reduce costs for gas sector



Oxford Flow, the pressure regulation equipment specialist for the gas, water and industrial process industries, announces the success of its gas pressure regulator field trials with gas distribution company SGN, which distributes natural and green gas to 5.9 million homes and businesses across Scotland and the south of England, helping to reduce maintenance costs and improve performance.

The field trial for the world's first diaphragm-free gas distribution pressure regulator began in January 2019 in Oxfordshire, to test the capability of the new valve. Typically, conventional gas pressure regulators operate to within +/- 5% of the intended gas pressure, but the trials of Oxford Flow's regulators demonstrated performance within +/- 1.5%. This will enable SGN to provide more accurate and stable gas pressure to their customers, even where consumption rates vary significantly.

Where most valves of this nature can have up to 100 moving parts, Oxford Flow's gas regulator only has one. It is also diaphragm-free, reducing wear and therefore maintenance costs, and improving network efficiency, performance and reliability.

The service interval is expected to be much longer therefore providing further cost savings. It is also much lighter, removing the need for expensive lifting equipment during installation and maintenance.

Mark Skerritt, Innovation Project Manager at SGN states; *"At SGN, it is important for us to use innovative technology that can safely and reliably improve productivity. This project has demonstrated Oxford Flow's expertise in not just controlling pressures, but their ability to tailor technology to our requirements."*

Neil Poxon, CEO at Oxford Flow comments; *"This is a hugely exciting time for Oxford Flow and we are proud to be collaborating with SGN for the development of this pressure regulating valve for the gas distribution sector. We aim to improve the reliability and efficiency of all gas networks and reduce operational costs.*

We also aim to help the sector transition to a lower-carbon future, as our diaphragm-free design helps future proof infrastructure for the potential introduction of hydrogen to the network."

Oxford Flow's technology was originally developed at the Osney Thermofluids Institute research facility at Oxford University.

This disruptive, patented technology is used in water and gas distribution networks, oil and gas systems, and industrial processes.

OXFORD FLOW

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Brooksbank Valves attend Valve World Houston

Yorkshire based valve manufacturer Brooksbank Valves Ltd, recently made the journey across the Atlantic to take part in Valve World, Houston; attending the two-day conference and expo event. Over 3000 people and over 300 exhibitors attended the George R Brown Convention centre in downtown Houston. Many thanks to Valve World Director Andre Davanzo and Marketing Manager Elisa Hannan for facilitating an excellent event.

A variety of valves used in the Oil & Gas, Chemical and Marine industries were taken to exhibit and showcase the Best that British Engineering has to offer. Our much admired "*Showstopper*" a 10″ Super Duplex Triple Offset Butterfly Valve actuated by Rotork took usual pride of place, front and centre of our stand.

Brooksbank Valves are proud to be an ambassador of the BVAA and British engineering abroad. We recognise the importance of tradeshows, especially within the valve market, following the success of Valve World in Dusseldorf. We felt this was a fantastic opportunity to increase Brooksbank brand awareness and engaging with the finest U.S. companies in the business. We will be following up on our success by exhibiting our products in Dusseldorf once again in December 2020.

Brooksbank Valves have made a significant investment into their marketing strategy over the past year and look to continue to make improvements on what has already been a successful 12 months for the company.

Our new website is almost ready to launch. This will be faster and better equipped for handling modern web surfing by being fully mobile integrated.

Brooksbank Valves Ltd would also like to extend their thanks to Equinox Designs based in Leeds, West Yorkshire for designing the stand to such a high standard and helping with the logistics. We look forward to working with them again soon!

About Brooksbank Valves

Brooksbank Valves was established as an independent family-owned company in 1953, initially to supply the UK Navy with high-quality valves. A Specialist manufacturer of high specification valve solutions from Copper based and Exotic Alloyed Materials such as Nickel-Aluminium Bronze.

Used in all industrial and naturally corrosive applications and by those using oxygen in their processes. Brooksbank Valves reputation as a problem solver and a supplier of quality valves quickly grew and we were soon serving other industries around the world and we continue to operate on a global scale.

BROOKSBANK
VALVES LTD

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Langley Alloys are *#notjustsuperduplex*

Langley Alloys prides itself as being ***#thehomeofsuperduplex*** on account of our invention of the original super duplex stainless steel, Ferralium 255. However, the breadth and depth of our nickel alloy stockholding has been consistently growing. Our latest investment in stock is the addition of Alloys 925 and 825 in sizes most relevant to valve manufacturers.

Although our super duplex stainless steel grades – Ferralium 255, SAF2507, 32760 – are all widely used in the production of valves and actuators, there are times when other alloys are required. For example, super duplex grades are limited to a continuous service temperature of less than 250degC.

An austenitic stainless steel could be used at slightly higher temperatures, but nickel alloys are best suited when the temperatures go higher still. Alloys 825 and 925 are the entry point to a family of high performance, but more expensive, nickel-based alloys.

Alloy 825 is the more commonly known alloy in the valve market, and Langley Alloys has already supplied a number of BVAA members with packages of solid bar for the machining of various components. It can be used at temperatures of up to 540degC and the various additions to its composition provides good resistance to a number of acids, oxidation and general corrosion. It can be readily machined, but its strength is relatively low compared with super duplex and other nickel alloys.

Alloy 925 is perhaps less widely known in the valve market, although it is increasingly widely specified by leading companies for the production of Oil and Gas tooling and components. It is largely similar to Alloy 825 in terms of composition, therefore its general properties, corrosion resistance and temperature operating range are near identical. However, it was developed to provide significantly higher strengths. Its mechanical properties are comparable with the most widely specified nickel alloy, Alloy 718, but the lower nickel content means that it is significantly lower cost. Unless the operating conditions demand the more highly-alloyed 718 grade then many clients are now choosing to switch specification to Alloy 925. Our current stock range covers the most relevant sizes for valve and actuator manufacture; in Alloy 825 we stock up to 10″ diameter, and in Alloy 925 from 4″ to 9″ diameters.

Being best-known for our focus on super duplex stainless steels has served Langley Alloys well. However, as BVAA members continue to broaden their horizons and supply projects on a global basis, then we feel it is only appropriate that our stock range continues to evolve.

Langley Alloys
80 YEARS OF UNIQUE METALS
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Parker announces connectivity enhancements to its valve portfolio

P2M Industrial Ethernet network node

Easy to configure Industrial Ethernet node expands connectivity options

Parker Hannifin, the global leader in motion and control technologies, as part of its global focus on factory automation, has added an expanded range of network connectivity options to its valve platforms with the addition of an easy to configure, cost effective Industrial Ethernet node.

The addition of the P2M Industrial Ethernet network node provides an inexpensive means of connecting the company's H Series valve, its Moduflex valve and the H Micro valve families to the Industrial Ethernet network.

The availability of the P2M node means that customers can benefit from low-cost connectivity with integrated diagnostics, making network connectivity an affordable and beneficial alternative to traditional hardwired networks.

The new Industrial Ethernet node reinforces Parker's continued focus on reducing complexity and cost at the machine, while also supporting the simple diagnostics required for alignment with the needs and objectives of Smart Factory & Industry 4.0.

In addition, the P2M Industrial Ethernet Node is safe power capable, meaning auxiliary valve power can be supplied by a safety device in support of the European Machinery Directive.

The P2M Node is offered with two M12 ports for network in/out and a single M12 connection for valve auxiliary power.

Parker now offers a full range of Industrial Ethernet connectivity options including EtherNet/IP, Profinet IO, EtherCAT, Ethernet PowerLink, Modbus TCP/IP and CC-Link IE protocols.

For more information on the P2M Industrial Ethernet Node please visit the website at: www.parker.com/pde/P2M_IE

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Learn more at trilliumflow.com

Hobbs Double Block and Bleed Valve installation – UK brewery

Hobbs Valve recently supplied a number of large double block and bleed valves to a UK brewery. After the valves were installed, the brewery issued the following report highlighting how our product range has solved a number of issues they were previously experiencing:

"The brewery operates a high pressure hot water system at 13 bar / 160°C which circulates around the various production departments where it is utilised as the primary heating medium for brewing and pasteurisation.

The water is heated and pressurised in the Energy Centre using four 9 megawatt boilers and is circulated around the brewery by one of three pumps delivering 650 cubic metres an hour.

The existing single parallel slide type valves used to isolate the boilers and pumps were serviced every year which involved a total brewery shutdown for up to a week.

Also, these type of valves were not the ideal for safe means of isolation during normal operation to allow boilers to be inspected and pumps to be serviced.

In recent years, the brewery has been working towards safer isolation solutions for high risk liquids and gases utilised on site and across the business.

To provide such a solution, a decision was made to replace the existing single parallel slide valves with the Hobbs double block & bleed design which could be fitted with no pipework modifications.

Hobbs Valve provided the solution and manufactured double block and bleed valves to be fitted in place of the existing valves during an annual brewery shutdown.

The 20 valves installed ranged from 8"/200mm up to 14"/350mm bore sizes and included both an electrically actuated valve and manual valve in each unit, as well as a separate gauge connection and bleed line.

The electrically actuated valves were wired to a main control panel located externally to the Energy Centre where each valve could be operated remotely or all closed simultaneously in the event of a major leak.

As well as the safe isolation provided by the Hobbs valve installations, a degree of flexibility has been incorporated whereby the brewing and packaging sections of the system can be isolated totally independently of each other. This allows for separate shutdowns to be achieved thus negating the need for an annual shutdown of the brewery's production every year.

There is a plan to extend the safe isolation with Hobbs double block and bleed valves to incorporate departmental isolation possibilities which will increase the flexibility to plan essential maintenance across the brewery independently from other production activities."

This report highlights the importance of double block and bleed in today's market.

We at Hobbs Valve pride ourselves on offering engineered solutions and this example demonstrates this perfectly.

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Tomorrow's Valve Today.

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ValvTechnologies Passes American Petroleum Institute 641 Test

ValvTechnologies, Inc. the global leader in the design and manufacturing of zero-leakage severe service isolation valve solutions, announced today that it has met the requirements of American Petroleum Institute (API) 641 through third party witnessed testing.

The API 641 test is one of three prevalent valve standards tests that evaluate fugitive emissions' performance over an accelerated life cycle.

Of the three, the API 641 Standard is the most stringent type test for quarter-turn valves and covers different designs, temperature ratings and sealing components. To pass this critical test, valves must meet the demanding criteria of maximum leakage of 100 parts per million by volume (PPMv), while undergoing 610 cycles of the valve under extreme temperatures.

ValvTechnologies completed the testing as it successfully demonstrated in a number of tests, conducted and witnessed by Qualispect, Inc., an independent third-party inspection company, the product's ability to meet testing requirements.

As a result, ValvTechnologies has proven its ability to design products and services that exceed customer requirements, improve customer satisfaction and reduce fugitive emissions.

"We are proud to have passed the API 641 test requirements as it recognizes our long-standing commitment to providing the highest quality in our operations," said Kevin Hunt, ValvTechnologies' President.

"This prestigious achievement demonstrates to our customers that ValvTechnologies has applied the highest level of controls for its valves, achieving a solid reputation for being the best fugitive emissions solution in the industry."

VALVTECHNOLOGIES

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Combating obsolescence to maintain critical equipment commonality

Equipment manufacturer commonality is a key feature at any operating oil & gas asset for all types of mechanical equipment, whether it be pumps, turbines, valves or actuation. Manufacturer / model commonality enables interchange; promoting diversity in the operator's equipment stock holding where a single item can cover many asset operating locations. This concept enables seamless planning of periodic equipment changeouts, whilst offering a safety net in the event of emergent issues in like for like equipment in live operation; it is embraced in its fullest by our one of our clients across each of their operating assets.

The Case

The client's onshore asset is safeguarded by numerous welded inline 24″ 600# actuated ESDVs, with both valve & actuator of a legacy design from the same OEM, a design dating back 40 years to be precise. In excess of 20 off these identical assemblies occupy the plant in day-to-day operation, with the actuators fully interchangeable with any of these ESD locations, which are Gas x Hydraulic design. The modern equivalents of these legacy actuators cost in excess of £40,000 to procure new. To maintain the ethos of key equipment interchange, rather than explore alternative manufacturers for actuation, SVS were challenged to achieve cost-effective solutions in the salvation of these legacy actuators, whilst avoiding a manufacturer's lead time to replace new.

The Solution

With a life cycle spanning over 35 years, each of these actuated units have been restored multiple times over that period as part of the drive to maintain commonality in these critical applications. A sustained gas supply pressure of 500 PSIG means that the piston seal and mating cylinder ID are subject to significant friction forces during their periods in operation, making eventual scoring and pitting within this interface a formality. Whilst seals can always easily be replenished during a repair interval, the same cannot be guaranteed for each of the metallic components such as the cylinders, pistons, piston rods and bushing; manual overhaul techniques, skim machining & recoating can only succeed so far until the manufacturer's tolerances are exceeded and the parts must be renewed. In this case, with spare metallic components no longer available from the OEM for this legacy equipment range, SVS applied its in-house reverse engineering to design and manufacture replacement gas & hydraulic cylinders and bushing to overcome the factor of equipment obsolescence.

The Result

SVS achieved a successful reverse engineered solution of these legacy actuated units at a cost ratio of 35% versus the value to procure new.

The client's stockholding of this critical equipment spare, fit to fulfil over 20 ESD duties at the asset, was replenished and held in our stock until future call-off.

For enquiries contact us at **sales@svservices.com**

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Flexitallic maintains commitment to innovation with latest sealing solution developments

Flexitallic has been at the forefront of innovation for more than 100 years and is dedicated to understanding and overcoming sealing challenges faced in the field by providing solutions that protect its customers' assets while delivering optimum process efficiencies.

Across sectors including oil and gas, power generation, chemical and petrochemical industries, Flexitallic has become the global leader in sealing solutions, through extensive research and development alongside detailed industry knowledge and experience.

This includes its ground-breaking Thermiculite®, which was borne out of industry requirements for a gasket material that can operate at higher temperatures for longer periods of time whilst maintaining seal integrity. Thermiculite® achieves this performance through the innovative use and manufacturing of uniquely processed vermiculite. By combining specially prepared thermally exfoliated and chemically exfoliated vermiculite the structure of crystal plates in Thermiculite® ensures a gas tight seal even under the most extreme process conditions.

As a result, Thermiculite® can operate in critical service applications, from cryogenics to temperatures in excess of 1,000˚C, effectively eliminating graphite oxidation, which limits seal life and seal tightness.

Thermiculite® is also incorporated within a number of high temperature options within Flexitallic's range of Compression Packings and Stem Sets, which are designed for specification with pumps and valves.

Its portfolio of more than 20 compression packing options provide a comprehensive range of sealing solutions, which can be applied to valves and pumps operational in assets in industries ranging from food, brewing and pharmaceutical through to petrochemical, paper & pulp and abrasive material applications.

Flexitallic's range of stem sets support Fugitive Emissions Management. The products are manufactured to effectively minimise leakage levels set out by legislation and are benchmarked against ISO 15848 to demonstrate their capabilities against strict testing and qualification standards for industrial valves.

The latest sealing industry innovation from Flexitallic is gasket filler material for use in corrosion sensitive applications, Corriculite®. The material, which will be showcased on Flexitallic's exhibition stand at Offshore Europe, tackles the issue of flange face corrosion on bolted joints.

In response to customer demands for an improved material with strong anti-corrosion characteristics, Flexitallic created the filler material for a range of spiral wound gaskets, specifically designed for use in corrosion-sensitive environments in industries such as oil and gas, power and marine. Corriculite® ensures seals maintain integrity by preventing galvanic corrosion, with a leakage rate of zero and is Fire Safe to API 6FB. Conventional graphite materials fail to prevent the corrosion of flanges due to graphite's electrical conductivity and position in the galvanic series. This leads to premature failure and leakage.

Corriculite® overcomes this issue as it is an inert, non-conductive filler material that remains inactive in corrosive mechanisms and joints. Through rigorous and robust testing, Corriculite® is proven to outperform graphite, demonstrating a pressure loss of only one percent, compared to 17 percent in an equivalent graphite gasket.

For more information visit **www.flexitallic.eu** or meet the Flexitallic team at Offshore Europe on Stand **1T49**.

Flexitallic

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Alco Valves Group introduces in-house fire testing facilities

Alco Valves Group Ltd, part of the international engineering firm Graco, have enhanced its testing capabilities with the official opening of their valve fire testing facility. The introduction of the new facility demonstrates Alco's dedication to research and development in order to configure solutions for its customers' diverse requirements where performance and safety are critical.

Alco has recycled an abandoned shipping container into a safe and fully functional fire test bay. With health and safety at the forefront of the way the Alco Group operate, superior features have been designed into the facility to ensure the highest safety standards are met. All controls are located in the main factory building with the propane fuelled fire remotely generated in a reinforced shipping container.

The intelligent burner system, supplied by Burner & Flame Technology Ltd, can reach temperatures in excess of 1000°C with optimum control and safety. Paired together with a high flow pressure system supplied by High Pressure Equipment Company (HiP), also a Graco company, the system effortlessly provides the conditions required to evaluate valve performance when subjected to a fire. The facility also contains a custom-built extinguishing system, data acquisition and a camera system to monitor every stage of the testing from a safe distance.

Typically, a fire test sequence consists of a thirty-minute burn period followed by a force cool and a post-burn performance test. This is to replicate an emergency in service, where in the event of a fire the extinguishing procedure should be completed within half an hour. Within that time frame the valve performance must retain a safe level of containment in order not to allow the process media to fuel the fire further.

The new test facility provides an advanced method to verify the fire-safe design features of Alco valves products when exposed to defined fire test conditions as described in international standards such as BS EN ISO 10497, API 607 and API 6FA.

Alco Valves have supplied its customers certified fire-safe valves for many years now. However, the product range is continuously growing and improving in order to satisfy some of the most critical and bespoke applications.

The introduction of these facilities not only allows Alco to meet the existing requirements set by the industry, but it also advances Alco's research capabilities to explore innovative ways to enhance the fire safety of Alco product ranges.

Paul Garner, Technical Development Manager at Alco Valves Group, commented:

"It has been a great pleasure in bringing this project to life. I would like to thank all those involved who helped create these new and advanced facilities. This addition to our capabilities helps our group to harness all streams of innovation to ultimately supply precision engineered products and services that address the challenges faced by our customers."

If you have any burning questions, please get in touch!

ALCO VALVES GROUP

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VALVE WORLD EXPO 2020: Exhibitor registration now open – new exhibition hall 1 to be used for the first time

Exhibitor invitations have been sent out and interested companies can now register as exhibitors at the international No. 1 exhibition for industrial valves and fittings, VALVE WORLD EXPO Düsseldorf.

1 to 3 December 2020 will see the holding of the 12th Conference and Exhibition for Industrial Valves and Fittings in Halls 1, 3 and 4 of Düsseldorf Exhibition Centre. Around 700 companies are expected to occupy a total area of 19,000 square metres.

In 2018, 12,000 trade visitors came to the exhibition halls on the Rhine to find out about the latest products and services in the fields of industrial valves and fittings.

For the first time, the new, ultra-modern Hall 1 will be part of the VALVE WORLD EXPO. A multifunctional exhibition space spanning 12,027 square metres and catering to up to 10,000 people, Hall 1 will provide new presentation possibilities for exhibitors.

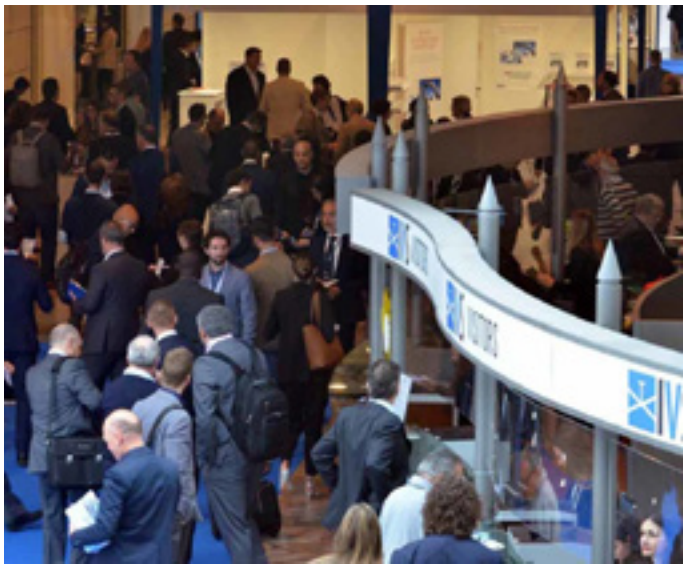
More space also means more growth potential: companies can now book even larger, versatile and digitally equipped exhibition stands in order to optimally present themselves and their product portfolio.

The accompanying VALVE WORLD Conference will take place in the new Hall 1 while the VALVE WORLD Forum, once again managed by KCI, will be held in the neighbouring Hall 3.

Beyond this, an innovation plaza is planned where young companies and start-ups can introduce themselves.

For more information visit the Internet portal at **www.valveworldexpo.de**

IVS 2019: Record-breaking numbers for the third edition of the Industrial Valve Summit



The third edition of Industrial Valve Summit (IVS), the most important international Exhibition and Conference on valve and flow control technologies, promoted by Confindustria Bergamo and Ente Fiera Promoberg and held in Bergamo on May 22nd - 23rd, has come to an end with an outstanding number of visitors

The final numbers of the 2019 iteration is a grand total of 10,753 visitors over the two days - this is a 36% increase on visitors compared to IVS 2017.

As well as an exceptional number of visitors the event boasted 250 exhibitors, 2 sold out pavilions and 7 conferences (including technical sessions and workshops).

During the two days in Bergamo, several studies and analyses on the state of art of the valve industry at a national and international level were presented: the Prometeia-Confindustria Bergamo Observatory about *"The Oil&Gas valve industry in Italy"*, two market studies of the Italian Trade Agency regarding Russia and the United Arab Emirates, as well as the Oil & Gas report realized by the American research company SAI, focusing on the perception of leading customers towards Italian producers.

Thanks to the renewed synergy with the Association ANIMA and the Trade Agency ICE, business delegations from 15 countries attended the Exhibition.

They also took part in B2B meetings with Italian companies, previously registered on a dedicated platform, at the ANIMA booth.

"The 2019 edition of IVS recorded important results, which confirm the high value of the idea to create an event for the valve industry in Bergamo, and compensate all the efforts and investments made so far," said the President of Confindustria Bergamo Stefano Scaglia.

He went on to comment: *"The event, born thanks to the virtuous collaboration with local companies, is producing very positive effects for large companies and especially for SMEs, which represent 94% of the sector and need more visibility at international level."*

"We are very satisfied with the success achieved with the third edition of Industrial Valve Summit - commented Ivan Rodeschini, President of Ente Fiera Promoberg - *In terms of organization, supply chain, visibility, impact on the territory, the event is the flagship of the Promoberg calendar. We would like to thank Confindustria Bergamo for the precious and fruitful cooperation that has generated this success."*

"We close an IVS edition that has been of high-level and satisfying from all points of view - said Maurizio Brancaleoni, President of VALVEcampus – *The conferences were already fully booked before the opening of IVS. Starting from May 27th the conference proceedings will be available to all IVS visitors on the VALVECAMPUS Knowledge Sharing Platform."*

The Industrial Valves Summit aims to bring together all key decision makers involved in valve technologies and flow control solutions. The event is born to attract the entire supply chain of the valve industry and is held every two years.

On the occasion, the IVS organizers have announced that the fourth edition of IVS will take place in Bergamo on May 26th – 27th 2021.

Chase The Sun 2019 charity bike ride

Preparations are well under way for Advanced Valve Solutions, who are taking part in a bicycle ride, from Sheerness in Kent to Burnham-on-Sea in Somerset, just south of Weston-Super-Mare.

The idea of *'Chase The Sun'* is to start cycling at sunrise on the longest day of the year (it will feel more like the shortest night for the participants!) in the east, and cycle throughout the day to try and beat the sunset on the west coast at Burnham-on-Sea.

This allows 16 hours and 50 minutes to complete the 205 mile / 330 kilometre ride and be very well acquainted with our saddles. See www.chasethesun.org for details of the ride.

Of course, being a group of mostly engineers, there has been some meticulously detailed planning, including calorie intake required, hydration requirement, the essential items to be carried whilst keeping the weight to a minimum.

A couple of the riders have helpfully purchased the latest Good Beer Guide, though this is only going to be required in the event of a major mechanical failure, or so we are told!

Advanced Valve Solutions have 5 employees – Alex Jackson, Yannick Kienstra, Cor Pauws, Merijn Reus and Martin Strom – and some additional friends, who are doing the ride in aid of the Child Poverty Action Group.

It was decided to do the ride in aid of a worthwhile charity raise some money for a good cause, and to try to aid the focus of the group, especially towards the end of the ride when the distance will start to bite.

Child Poverty Action Group - works on behalf of the more than one in four children in the UK growing up in poverty. It doesn't have to be like this.

Using its understanding of what causes poverty and the impact it has on children's lives, CPAG campaigns for policies that will prevent and solve poverty – for good.

The charity provides training, advice and information to make sure low-income families get the financial support they need and carries out high-profile legal work to establish and protect families' rights.

Advanced Vale Solutions would be delighted to receive any kind donations to the charity, via their JustGiving page:

www.justgiving.com/fundraising/martin-strom5

All donations, no matter how small, are greatly appreciated, thank you. The JustGiving page stays live for donations for a few weeks after the event, so please consider making a donation even if after the event.

We will do an update article after the ride, or at least any of the survivors will! If we all enjoy it as much as we are hoping to, and anyone wishes to join us next year, please let us know.

Advanced Valve Solutions

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Introducing TrevitestX - the newest model of TEAM's premiere in-line test system for safety and pressure relief valves

A critical component in maintaining a facility's productivity, safety and profitability is to ensure that every valve is operating at peak efficiency while meeting relevant safety requirements.

With the Trevitest™ system, TEAM has the ability to test relief valves and identify those in need of adjustment or full service while the unit remains online with no operational interruptions. It enables the user to measure several types of phenomena to assist in the testing of safety and safety relief valves.

Specifically, it is able to measure pressure, lift or displacement, and sound via acoustic detection.It may be used in the testing of most steam, vapor, and liquid valves being manufactured today.

Over the years, Trevitest has evolved with improvements in software, hardware, and technology. The newest version being introduced to the market is the TrevitestX – a smaller, lighter, and more data secure model.

"*As part of TEAM's comprehensive valve repair solutions, the newest TrevitestX testing technology enables our clients to recognize sizeable and immediate benefits*," said Team. "*This model provides enhanced secure data resulting in clearer insights and further solidifies our company's commitment to continued valve diagnostic testing and repair innovation.*"

The new TrevitestX model features include:

- Reduced weight and system complexity to improve the speed of testing and ease of use
- PC based using the latest Windows 10 (64) bit operating system
- Lower signal feedback noise with the incorporation of USB technology
- Improved accuracy with 16-bit resolution (input and output)
- 4-20mA sensor feedback with no degradation of signal due to distance
- Load, pressure, position, and accelerometer readings within .1% accuracy
- Data export capabilities which can be uploaded into a valve management system

A key differentiator of this version is it is the ONLY lift-assist device that can perform both pre and post calibration with the use of an optional closing ram.

It is also the ONLY lift-assist device qualified for use in nuclear applications.

Because the TrevitestX is more accurate and easier to use, TEAM technicians are able to test each valve at a quicker pace, therefore providing additional cost savings for the customer.

TEAM offers end-to-end safety valve repair solutions that incorporate the TrevitestX testing technology with superior repair and maintenance services.

Whether on a daily or emergency basis, TEAM's highly trained technicians are able to provide a quality and comprehensive solution specifically engineered to meet each customer's needs.

The TrevitestX began its roll out in June.

For more information, visit TeamInc.com.

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* Just wish you could get the right advice, at no charge?

Every day a typical UK business has to comply with dozens of pieces of UK and European legislation, and that excludes additional requirements that might be specific to any particular industry. Making the wrong decision can be costly. To help protect our members from what can be a considerable burden, BVAA has launched 'Business Shield' in partnership with Quest offering a range of health and safety, employment law resource, Business Support helpline and related commercial legal expenses insurance.

Arup and EnerMech join forces to revolutionise Oil and Gas asset inspection

Digitised inspection system can cut costs by 30%

The inspection of oil and gas assets could be revolutionised following the signing of a three year agreement with global engineering consultancy Arup and EnerMech's specialist inspection division MInteg.

AIM, a digitised inspection system, utilises graphic techniques similar to those used in video gaming and could typically cut asset inspection costs by up to 30%.

AIM could also massively reduce reliance on rope access, which is traditionally used for the inspection of hard-to-access areas of offshore oil and gas platforms.

Arup, a 15,000-strong international design and engineering consultancy, has worked on major global infrastructure and building projects including the Sydney Opera House, the Queensferry Crossing and the Victoria & Albert Museum in Dundee.

With Arup's proven digital expertise and EnerMech's broad energy industry experience, both companies believe AIM can redefine and revolutionise the inspection process of assets and replace the current outdated and paper-based method of inspection which is prevalent in the sector.

AIM uses visualisation, data automation, artificial intelligence, computational photography and 360° walk-through views to construct virtual models of assets and to pinpoint and prioritise areas where maintenance may be required.

The virtual model, which can be accessed remotely by clients 24-7, utilises a Unity platform, a widely used efficient means of generating in depth computer generated models.

The reality is that AIM can save time, reduce costs and minimise risk. Operators and asset owners will have instant access to interactive inspection data, allowing them to make informed decisions about asset repairs, replacements or improvements.

Dr Bryan Horton, Offshore Digital Leader, Arup, said: *"The partnership between Arup and EnerMech brings enhanced global expertise to digitalise an old way of working, delivering high value and lower risk outcomes for operators. EnerMech is a leader in the energy industry and we are delighted to be working with them. Clients have already benefitted significantly from both organisations working together and we look forward to strengthening this alliance."*

AIM can be used to inspect almost any asset including offshore fixed and floating platforms, marine jetties and terminals, onshore plant facilities, construction and fabrication projects and brownfield modifications.

MInteg Operations Director, Patrick Gallagher, added: *"AIM is a potential game-changer which offers enhanced inspection capabilities on oil and gas assets and can assist operators with prioritising the annual integrity management cycle.*

"The potential time savings and subsequent cost reductions are considerable, plus AIM can hugely reduce the amount of time we will require personnel to be working at height using rope access to inspect difficult-to-reach areas of offshore and onshore assets."

The two organisations will collaborate together throughout the inspection process, further supporting operators to enhance assets based on the inspection findings through engineering expertise across the North Sea, Western Australia and Gulf of Mexico.

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