

valveuser Magazine



MAY 22ND > 23RD 2019
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3RD INTERNATIONAL EXHIBITION AND CONFERENCE
ON VALVE AND FLOW CONTROL TECHNOLOGIES

Annual
Review
Inside



Langley Alloys - 50 years of Ferralium



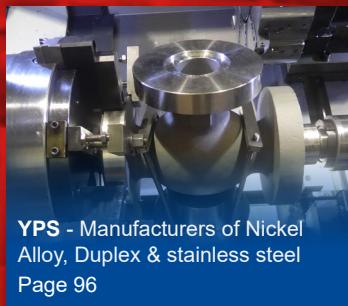
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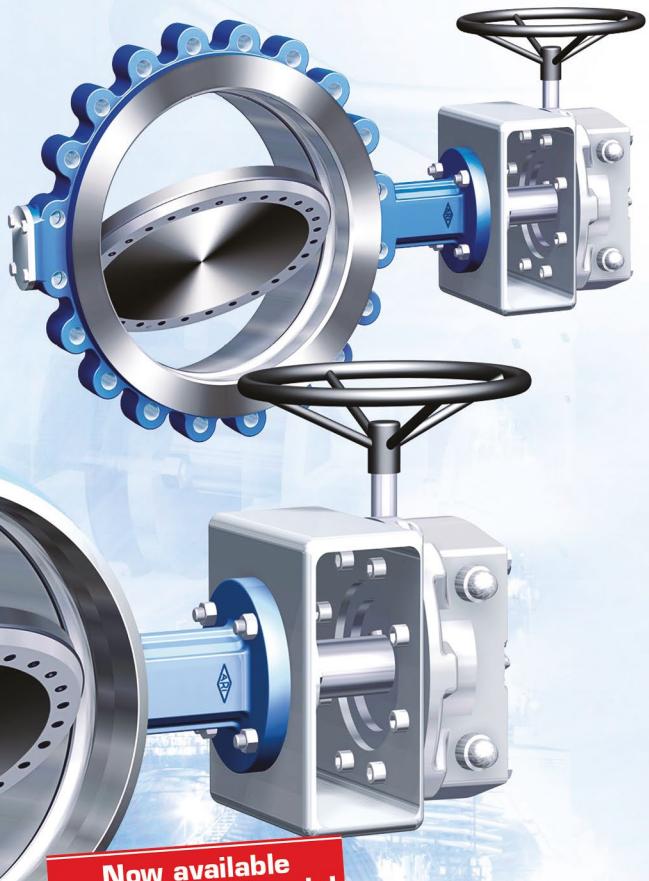
BVAA - Annual Review

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Cover Image: Langley Alloys - 50 years of Ferralium - Pg: 48



Comment

By BVAA Director
Rob Bartlett

'State of the Association'

A few years ago, the BVAA closed down its old 'Executive Committee,' and in doing so also changed the format of our Annual meetings from our somewhat '*traditional*' style. This was in response to a demand to '*be more entertaining and informative!*'

Although AGM attendances have risen beyond all expectation, several members have commented that we have, as a consequence, lost an element of updating the wider membership about the state of our association, its finances, services, future plans, current challenges, etc. I tend to agree.

Our Annual Review (enclosed in this issue) attempts to cover some of this, but as a '*retrospective*,' has certain limitations. This commentary seeks to fill in some of those gaps in members' knowledge in a more detailed way. But where to start?

Firstly, I can only speak authoritatively about my minimal experience of the Association – a paltry sixteen of the 80 years BVAA has been in existence! So, I feel I should restrict it to my '*watch*.' Secondly since *everything* we do revolves around available resource, finance is probably a good place to start.

A 'not for profit' organisation

BVAA touts itself as '*not for profit*' – but what does that actually mean?

Officially BVAA Ltd is a company without share capital, limited by guarantee.

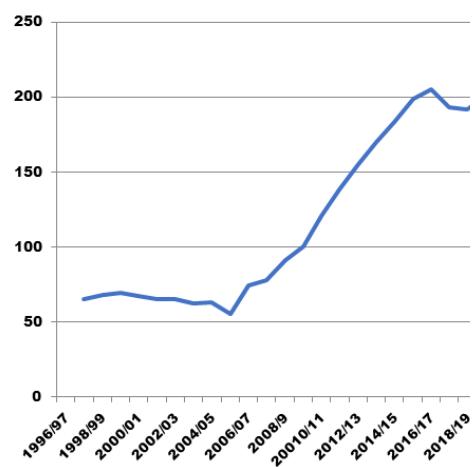
As such we are quite at liberty to retain a surplus, if we so wish.

But perhaps uniquely in business, an association that makes an excessive profit is considered equally as '*bad*' as one making a loss - members don't give us their hard-earned cash just to pass it on to HMRC in the way of corporation tax!

So, each year we set a budget that plans to see virtually every penny converted into products and services for the benefit

of our members. '*Making that so*' however is extremely challenging given that we set that budget C.18 months in advance of actually *knowing* our final income.

Over twenty-five years' experience in associations, a great team and pretty good intuition generally sees us through, with - I might add - remarkable year-on-year accuracy in the predictions.



The BVAA Membership Growth 'hockey stick' – the new approach start point clearly evident.

Decline in subscription value

Another hugely important issue is the changing demographic of the BVAA membership, and its impact on subscription 'value.'

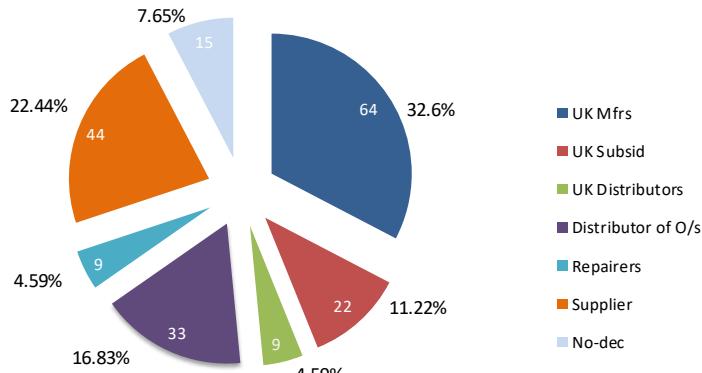
BVAA used to comprise almost entirely manufacturers.

These days less than one-third of BVAA members declare themselves as '*UK manufacturers*' – but even so there's many more of them in membership now than the entire membership of 2003!

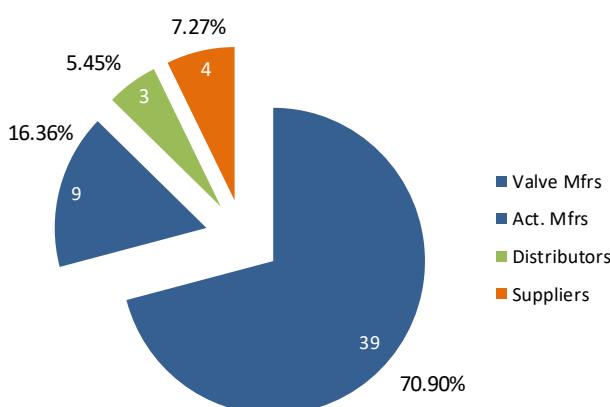
With the ineffable shift from UK-based manufacturing, indeed demise of some major players, there has been a long-term trend for the average size of a BVAA member to decrease, and the subscription contribution to consequently fall with it.

BVAA Membership vs BVAMA Membership by %

BVAA February 2019 (Self-Declared)



BVAMA 2003



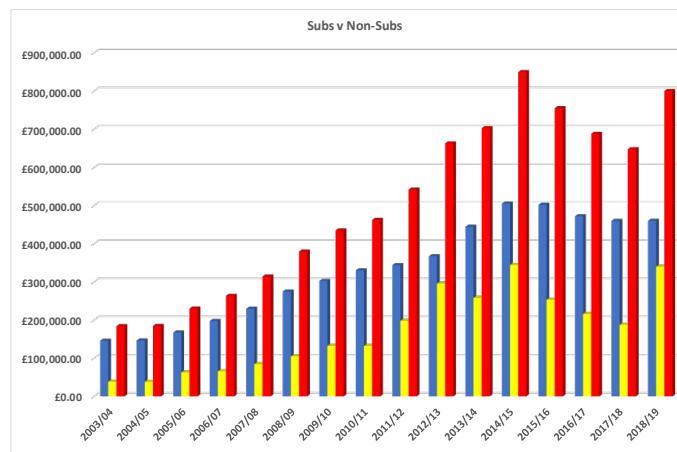
My predecessor at BVAA had a much smaller association – just 55 members. At the time of writing we number 200. However, the average subs contribution last year alone from those joining compared to those leaving was significantly less.

Looking back further... the value of the average subscription back in 2003 was, according to RPI, equivalent today to C.£3.5k per member p.a. The average *actual* contribution today is just £2.4k – a drop of a third.

So, while we have many more members, my team has to deliver considerably more with considerably less contribution.

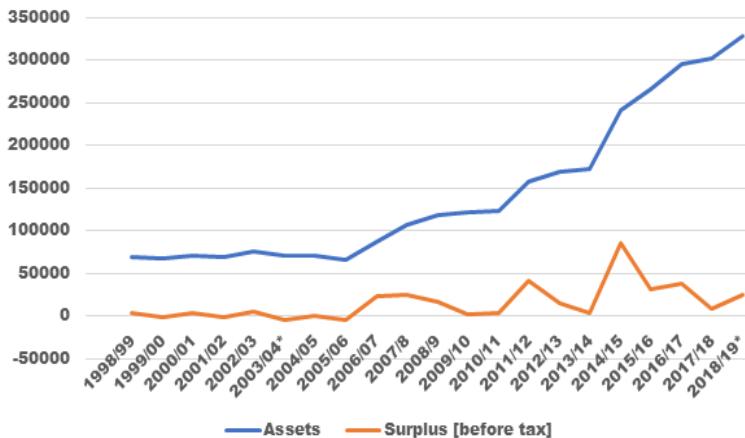
Subs represent less than 60% of what we actually need to operate at current activity levels – and the pressure is always on to deliver more.

We derive the remaining 40% of income we require from training, exhibitions, event fees and other commercial activities. Since a lot of that can be described as '*discretionary spend*', again it's *very* tricky to predict, one year to the next. Inevitably my BVAA team spend a lot of their time '*selling*' to members, in order to raise funds in order to service members.



General income trend encouraging, subs income declining of late

BVAA Assets and Surplus



What's different today?

Financially, despite all the challenges described above, the Association is in considerably better shape, as our assets chart shows.

It is my honest opinion that the BVAA of 2003 would have been long-since bankrupt had it not changed its scope. Alternatively, to deliver what we do now, to the same population, the fees per company would have to be absolutely astronomic, rather than a '*third less*.' Interestingly, a significant proportion of that 2003 membership no longer trade, or were enveloped by larger entities.

Despite everything, the 2018/19 year was our second-best ever when it came to total income and non-subs income. The fourth year of decline in subs income however, for the reasons described above.

Last year our reserve account was about 50% bigger than it was in 2003, but our *overall assets* are over **FOUR** times as big, including our freehold building. We also represent about **FOUR** times as many British companies – a massive change for the better.

Our headquarters is worthy of further note. Never before in our 80 years has BVAA owned its own premises. Today we have a modern freehold office, with a well-appointed training suite above – the Peter Churm Technical Centre. Ne'er a week goes by without a member using our own – and free-to-use - meeting facilities.

Commercially, members have a vast array of services to call upon. And despite what you might think from the '*non-subs*' text above, a great many of services are included in the subscription!

The BVAA Board continue to support this approach and recognises fully the need to offer a '*smorgasbord*' of services – i.e. something for everyone. This is completely in tune with our very diverse membership make-up which demands nothing less. It all necessitates a bigger and superbly professional staff.

A list of activities that we do now, that we *didn't* do in 2003, would include: -

Our own Training, Desktop exhibitions, Valve User Magazine, Annual Dinner Dance, Websites, PR-writing assistance, promotion in the trade press, Global & UK market forecasts, O&G market tracker, Supplier Days, Regional meetings, Golf Days, Sales Leads information, Valve World Group Stand, Trade show representation, Intelligence Bulletins, Social Media, Future Leaders Programme, standards meetings' travel funding, Technical Expert Groups, Technical HotSpots, enhanced User Manual, Free Directives Guides, the Business Shield Service, our Online document library, website promotion, free specialist Technical advisors, etc.

Training

Worthy of a further note, BVAA Training income – more specifically *surplus* – has ballooned 230,000% since it was brought back under the control of the Secretariat! Sixteen years on, and disregarding any RPI, BVAA members still paid this spring the *same amount* for a standard course as they would have done in 2003, for a much-enhanced product, with the addition of CPD accreditation, and a free User Manual! We should note that that surplus gets ploughed straight back into association funds, to subsidise other services.

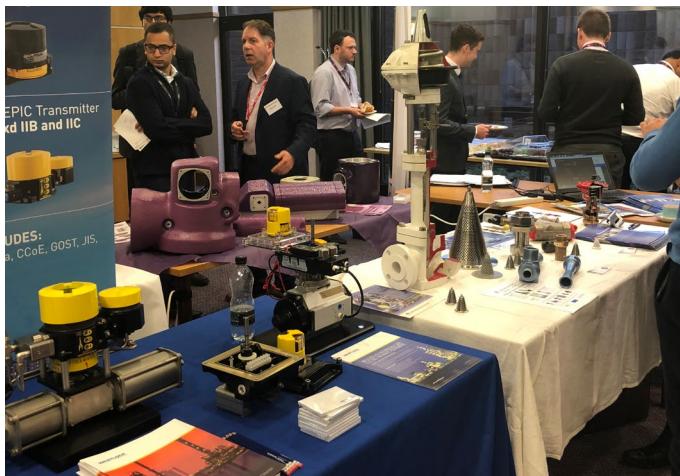


Training in full swing

Magazine & Desktops

Both also merit further attention. Firstly, we are highly unusual – indeed we believe *unique* in our sector of engineering - in that we publish the industry's leading journal. Only rarely does that generate a surplus, so again members get access to a superb PR vehicle, with free of charge editorial, and with advertising at a largely subsidised cost.

The Desktop Exhibitions programme was moribund in 2003 (i.e. zero events). In 2019 members can more or less count on there being an important customer-facing event every month, and we are now seriously looking to expand this overseas.



Last years' Desktop Exhibitions



Technical

Originally the main focus of the association, for decades, all this standards and directives work - *and more* - continues still. With Brexit throwing up all manner of new and potentially threatening challenges, our technical team has expanded beyond Martin Greenhalgh and his volunteers, to a team of specialist support consultants. That's an additional cost we bear too. But vital if we are to adequately support our members.



BVAA Technical Consultant Martin Greenhalgh

The Future

BVAA's Board - a team of nine elected by the members - chews this one over relentlessly. The variety in membership means that '*smorgasbord*' approach is essential to cater widely and address the primary needs of all. We also have focus groups on Business Development to keep business coming into our members, and also on the '*Messages*' we want to get to the outside world as well as communicate to our own brethren. With Brexit upon us, we may need specialist task groups there too.

Three times a year the Board reviews in detail what we've done, what we're doing, and what we plan to do next. There's nearly-daily dialogue with the Chairman and others, keeping the BVAA machine well oiled.

Notwithstanding all that, the old adage '*you get out of membership what you put in*' still remains as relevant today as it did to our founding members in 1939. Participation is the key to success – indeed it is vital!

80 years on, I think they'd look down and while probably not recognising much of the company-name landscape, would have a warm glow from knowing the association they founded is still striving as hard as ever to support the British valve industry.

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Introduction to Valve Actuators | Tuesday, 2nd April

Control Valves (**CPD Certified**) | Wednesday, 3rd April

Safety Valves (**CPD Certified**) | Thursday, 4th April

Valves Advanced Level (**CPD Certified**) | Monday 29th April - 30th April

PED/ATEX Directives | Wednesday, 1st May

Safety Integrity Levels (SILs) | Thursday, 2nd May

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For full details on each course, visit www.bcaa.org.uk/training_courses.asp

Spring | 2019

- Introduction to Valves | Monday, 1st April
- Introduction to Valve Actuators | Tuesday, 2nd April
- Control Valves (**CPD Certified**) | Wednesday, 3rd April
- Safety Valves (**CPD Certified**) | Thursday, 4th April
- Valves Advanced Level (**CPD Certified**) | Monday 29th April - Tuesday 30th April
- PED/ATEX Directives | Wednesday, 1st May
- Safety Integrity Levels (SILs) | Thursday, 2nd May

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

Prices: £290 for Members | £475 for Non-Members plus VAT.

*Valves Advanced Level Price: £360 for Members | £545 for Non-Members plus VAT.

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

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Email:

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Total Amount:

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Payment Details:

Visa

Mastercard

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'Future Leader' Co-opted to Valve Industry Board

futureleaders
Programme



Dave Godfrey new appointment from the BVAA

The British Valve and Actuator Association (BVAA) has co-opted Dave Godfrey (34) from actuator specialist Rotork PLC to its board of directors.

Godfrey will represent the ongoing interests of the BVAA's Future Leaders Programme, acting as a conduit between the industry's established leaders and rising stars. As one of the *alumni* from the inaugural programme in 2016, he is well-connected with current and previous participants.

Working closely with the BVAA's Director & CEO Rob Bartlett and Chairman Colin Findlay, Godfrey will help ensure the programme continues advancing the interests of the industry. His first task is to assist in the selection of delegates for this

year's cohort, in collaboration with Bartlett, Findlay and personal development consultant Dr Martin Haigh MBE.

Rob Bartlett says co-opting Godfrey to the board underlines the strength of the BVAA's commitment to young professionals and the long-term health of the industry.

"Dave is the epitome of a future leader, with an excellent career path to date," Bartlett explains. *"As an industry body, we made the strategic decision to invest in young people who exhibit leadership potential, helping them step-up to new challenges at an earlier stage in their careers. But it's important that we listen to the needs of young people as well as their employers. Co-opting Dave to the board enables him to give voice to the expectations and requirements of future leaders on a platform that tends to be dominated by people further on in their careers."*

The BVAA Future Leaders Programme was launched in 2016 to address the leadership skills gap facing British valve and actuator firms.

Its objective is to act as a catalyst, accelerating the career development of promising young people through a year-long programme of training, networking and personal development. Upon completion of the programme, delegates are encouraged to act as mentors to the incoming cohort and keep in touch with their peers to continue cultivating an ever-expanding network of valuable industry contacts.

"I'm proud to represent the Future Leaders Programme on the BVAA Board," says Godfrey. *"It's an innovative and effective scheme that delivers excellent outcomes for all the individuals and businesses involved. The Future Leaders Programme will help ensure the industry remains strong, healthy and resilient, and it's great to play a part in making that happen."*

The BVAA has represented the British valve and actuator industry for 80 years, and has around 200 members ranging from specialist SMEs to global engineering firms.

The industry is a major STEM employer in the UK: 9,000 people are directly employed by valve and actuator businesses, and the industry contributes £3bn to the UK economy each year.

Offshore Europe

The Aberdeen Exhibition and Conference Centre (AECC) is currently being built and OE19 will take place at the new state-of-art venue. It will encompass 48,000 sqm of internal exhibition space, with an extra 10,000 sqm outdoor space.

This exhibition offers up to date technologies and the opportunity to connect with a global network of 36,000+ attendees.

Full Address:-

Aberdeen Exhibition & Conference Centre
Ellon Road,
Aberdeen,
AB23 8BL

The BVAA will be exhibiting at Offshore Europe so come along and see us on stand 2G10!

OE[®] 2019

3-6 SEPT 2019

Offshore Europe ABERDEEN, UK

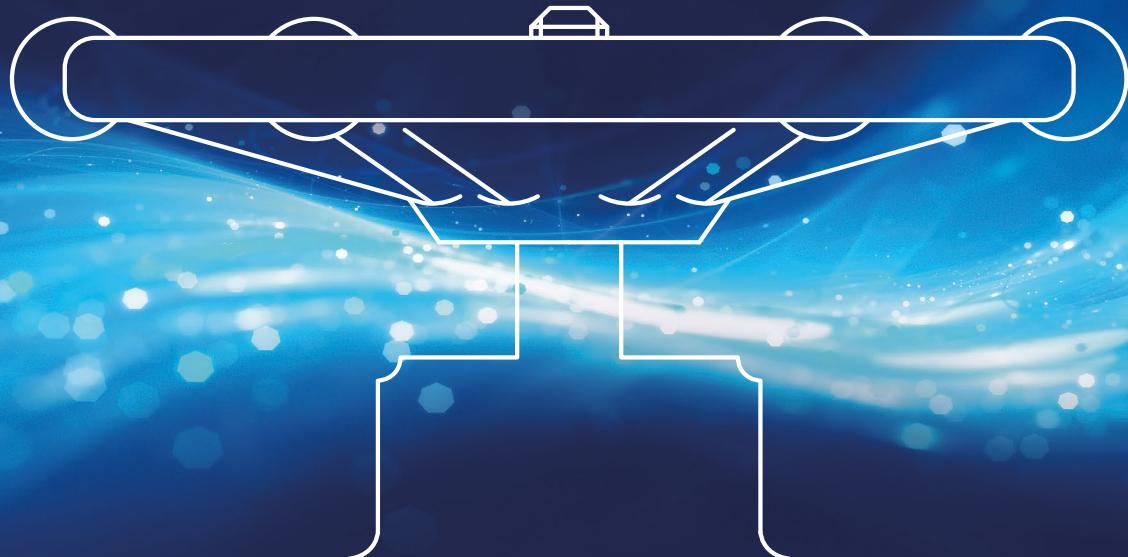
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BVAA's 79th Annual General Meeting



Presentations are an important element of the AGM

The latest BVAA Annual General Meeting was held at the prestigious and stunning Riddings Park Hotel in Harrogate on the 15th and 16th November 2018.

Thursday kicked off the proceedings with a board meeting and dinner in the hotel library.

The Friday began with the now traditional presentations. These were led by the BVAA's own Future Leaders Cohort 3, then Mark Homer - VP & Head of Digital Transformation and finally Professor Roger Bromley.

The presentation delivered by the Future Leaders induced a great deal of admiration as delegates were able to overcome a battle with glossophobia (*a fear of public speaking*) to reflect on the skills acquired throughout the year long course.

The presentation also outlined the requirements to succeed and stand out as a frontrunner in the industry. The group demonstrated their progression as they now begin their journey to become the next future leaders and frontrunners in the valve and actuator industry.

Special thanks were expressed to Dr Martin Haigh MBE for his continued support and assistance in shaping this highly popular and extensive programme into what is now a staple of the BVAA.

Following a short interval the second presentation was delivered by Mark Homer of GE Digital - Predix ServiceMax.

Mark led an informative and highly fascinating discussion on the use of digital twin technology. He explored not only what makes a digital twin and the varying types available, but why digital twins could be of value to BVAA members and the wider British valve industry. He outlined how digitising customer assets can yield better industrial and customer outcomes.

In the wider industrial world, industrial assets under maintenance globally exceed \$240 trillion dollars, with a maintenance of \$27 trillion. Moving to predicitve maintenance model organisations have seen savings of 10% - 20% over preventative maintenance strategies.

Finally, Professor Roger Bromley who specialises in innovation and collaboration as well as having worked for more than 30 years with over 80 FT100 businesses, delivered an instructive presentation covering the concept of innovation.

He has founded and successfully commercialised a number of technology innovation businesses, in particular, Smart Component Technologies Ltd.

SCT is at the forefront of condition monitoring for highly-critical industrial assets based on the development of low-cost solutions for predictive maintenance and asset monitoring.

As well as the informative presentations, an exceptional afternoon tea at Betty's tea room got underway for delegate partners and comprised a delightful afternoon tea filled with Christmas themed pastries and delectable savouries.

With a private upstairs room, which was fully decked out in colourful and bright Christmas attire, the area was the perfect setting for attendees and a lucky couple of our BVAA staff members to catch up and unwind before the evenings events.

Betty's tea room in Harrogate has been established since 1919 and its popularity was particularly evident as the group arrived.

The exhibition around the room included representatives from CML, Wika, Severn, SmartAct, Team Furmanite, Ceetak, Quest, Protel, Langley Alloys and BVAA's own Future Leaders.



AGM Dinner Dance

After the meeting concluded, the evening entertainment commenced.

This included a champagne reception kindly sponsored by Rotork, with the casino and entertainment sponsored by Smart Act.

Likewise the wine was generously sponsored by The Great British Valve Group.

Emerson also very kindly provided some environmentally friendly reusable metal water bottles for all attendees as a table gift.

We would like to thank all of our generous sponsors which alongside the aforementioned included Crane and Kent Introl.

Some surprise entertainment helped to raise the party with exceptional performances by the Three Waiters. This singing trio blended into the mix perfectly.

Their identity was kept so secret in fact that the majority of BVAAs own staff didn't recognise them among the throng of waiting staff at the event.

This was then followed by live band Mixed Feelings with an eclectic mix of music performed by a band of professional singers and musicians who delivered an energetic performance.

The mix of vivacity and live music encouraged many to get up on the dance floor and bust out their best moves.



Future Leaders Cohort 3 outlining their fantastic presentation skills



Professor Roger Bromley on innovation



Mark Homer appraising us on Digital Twin Technology



Exhibitors from Team displaying their products



BVAA Chairman Colin Findlay presenting awards



Dinner getting into full swing



Place your bets!



Champagne Reception in full swing

Valve World 2018



BVAA Chairman Colin Findlay presenting at the Valve World British Reception

It has been another bustling and fast paced Valve World, the 11th International Valve Trade Fair Conference in Dusseldorf, Germany.

The biennial event hosted a range of industries including oil and gas, water and wastewater processes, power generation, marine and offshore industries.

The BVAA booth was part of a shared exhibit which was made up of BVAA members including:

- Advanced Actuators
- AllValves
- Alco
- DFT
- Parker Hannifin
- Severn Glocon
- Smart Act

In addition to the above BVAA members our American counterpart the VMA also co-exhibited.

We were able to meet over 70 members over the course of the event. Not only at our stand but also at our British reception on Tuesday 27th November.

This included a selection of fascinating canapés which comprised a range of unusual and intriguing pairings such as pear and stilton tartlets, vegetable crisps, cauliflower cheese nibbles, mini chocolate chip scones and roast lamb and pea puree on toast!

These eccentric offerings went down extremely well with many commenting on how moreish they were.

Alongside these British inspired snacks, a traditional selection of Oxfordshire Hook Norton beers were readily available to quench the thirst of our attendees.



Stephane Moison (right) who is the President of Safi Thermo-plastic Valves with John Freeman Area Sales Manager in the UK who has been with Safi for 30 years



BVAA Chairman Colin Findlay, British Consul General Rafe Courage and David Young from Severn Glocon



resenting U.S. and Canadian
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for more than 75 years



(L to R) Messe Operational Managing Director Wolfram Diener, British Consul General Rafe Courage, BVAA Chairman Colin Findlay, BVAA CEO Rob Bartlett



Mike Howells and Steve Barford from Emerson



The BVAA team arriving at the exhibition centre on Day 1

The evening event included speeches as well as fantastic networking opportunities for attendees and BVAA members.

The general feedback of the exhibition overall was positive from our members with many commenting on a large number of great leads and contacts obtained throughout the three-day exhibition.

There were over 650 exhibitors from 40 countries who occupied 18,000 sqm in Halls 3 to 5, showing their latest technologies, components and systems for industrial valves, fittings and pumps.

The second day proved to be exceptionally busy with good footfall around the Conference centre.

This meant a host of great opportunities to meet potential clients and connect the supply chain with demand.

Valve World represents one of the peak Valve events available and one that is most definitely worth a visit.

Valve World will be returning on the 1st - 3rd December 2020 at the Messe Dusseldorf.

As ever it was a fantastic exhibition which really showcased the vast offerings of the dynamic and thriving Valve and Actuator industry.

Want to know more about Valve World 2020?

Contact us today for more information about how to co-exhibit with the BVAA: ellie@bvaa.org.uk



Thermal Designs UK Ltd team enjoying Valve World



The team from Allvalves with their BVAA member plaque



The Severn Glocon Group



Co-Exhibitors DFT at the British Reception evening



The Pneumatrol team



Members relaxing and enjoying some nibbles

New Members...

The BVAA would like to warmly welcome our newest members into the fold!



L to R: Peter Keating (Marketing Manager), James Stevens (Sales Office Manager) and Tobias Grund (Sales Director)

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Mike Wainwright (Managing Director)

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New members YPS Langley Valves provide stainless steel and nickel valves

New Members...



Adam Bradley (Commercial Manager), proudly holding his new BVAAC members plaque



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James McGregor (Operations Director), Actuated Valve Supplies



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Web: www.mistrasgroup.com

Email: info@mistrasgroup.com

New Members...



L to R: Thomas Petersen (Group CEO), Ross Cunningham (UK MD), Rob Bartlett - (BVAA CEO), Andy Percival (Operations Manager)



'M Seals UK employs 35 staff over the three UK sites in Leicester, Newcastle and Knutsford as well as over 80 in Europe. The company has recently appointed two new sales representatives for the north west and south west regions of England, and will also recruit a new UK Strategic Manager to drive growth of the new business.'

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Craig Mellins and Kevin Wilson of Valve-Kits with their BVAA members plaque

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Closing the Skills Gap

futureleaders
Programme



The Future Leaders Cohort 3

The Future Leaders Programme is a yearlong initiative set up by the BVAA that aims to take a number of young professionals - who were nominated by their employers - and equip them with the skills required to be the next future leaders in the industry.

This is the third successful year of the enterprise and it looks set to continue to a fourth.

Many engineering-led industries are currently facing a crisis in leadership and the course aims to empower young people to take the skills required for leadership roles forward in their careers.

The latest group (Cohort 3), comprised eleven professionals from valve and actuator businesses across the UK.

The course comprised monthly personal development sessions with a specific focus on presentation, teamwork and leadership.

Each participant also coordinated an educational event supported by their employer, so the group can learn more about the industry as a whole. This year's tours included a look at the Stanlow Refinery, to witnessing cryogenic testing of LNG valves and an introduction to the 5S workplace organisation methodology.

The programme culminated at an end of year presentation at the BVAA AGM at Rudding Park where the presentation skills studied over the course could be put into practice. Each individual graduated with a crystal award to signify their achievement.

The Future Leaders Programme unites individuals from all corners of the industry, and the BVAA want to congratulate the latest Cohort for their diligence and hard work as well as extend our gratitude to Dr Martin Haigh MBE (Latitude7) for his continued contribution to this marvelous initiative.



BVAA Chairman Colin Findlay presenting a crystal award to Adrian Chiechanowski



'Wear it Pink' 2018



BVA Business Development Group wearing their pink attire!

Breast Cancer Now's 'Wear it Pink' day is one of the biggest fundraising events in the UK. Taking place during Breast Cancer Awareness Month, thousands took part in this event in their communities, schools or work places for the UK's largest breast cancer charity.

Altogether the movement has generated £31.5 million towards life-saving research. The research aims to discover how to prevent breast cancer, how to detect it earlier and how to treat it effectively at every stage.

Here at the BVA we dressed in our pinkest garments, offered up some pink cakes and sweets and got fundraising. The event was held during our Business Development group meeting which meant the whole group could get involved (lucky them!).

Firstly we would like thank all those who took part which includes all of the BVA team (Rob Bartlett, Rob Boycott, Karen Webb, Barbra Homer, Ellie Davies and Laura Martin) and the following BVA members:

- Tim Guest (Zoedale Ltd)
- Ian Barber (Emerson)
- Stuart Billingham (Koso Kent Introl)
- Dave Godfrey (Rotork Controls Ltd)
- Laurence Kettle (Rotork Controls Ltd)
- Gavin Wheeler (The Great British Valve Group)

In total we raised just shy of £140. Not bad for an afternoon! Congratulations to Tim Guest from Zoedale for winning the 'Guess the balloon' competition (the prize being a cake and kudos!).

The 'Wear it Pink' fundraising event is being held in 2019 and if your company or institution is interesting in getting involved more information can be found at: www.wearitpink.org

Its a fun way to raise funds and get the whole office involved whilst looking fabulous in pink.



BVA staff members wearing a whole lot of pink!

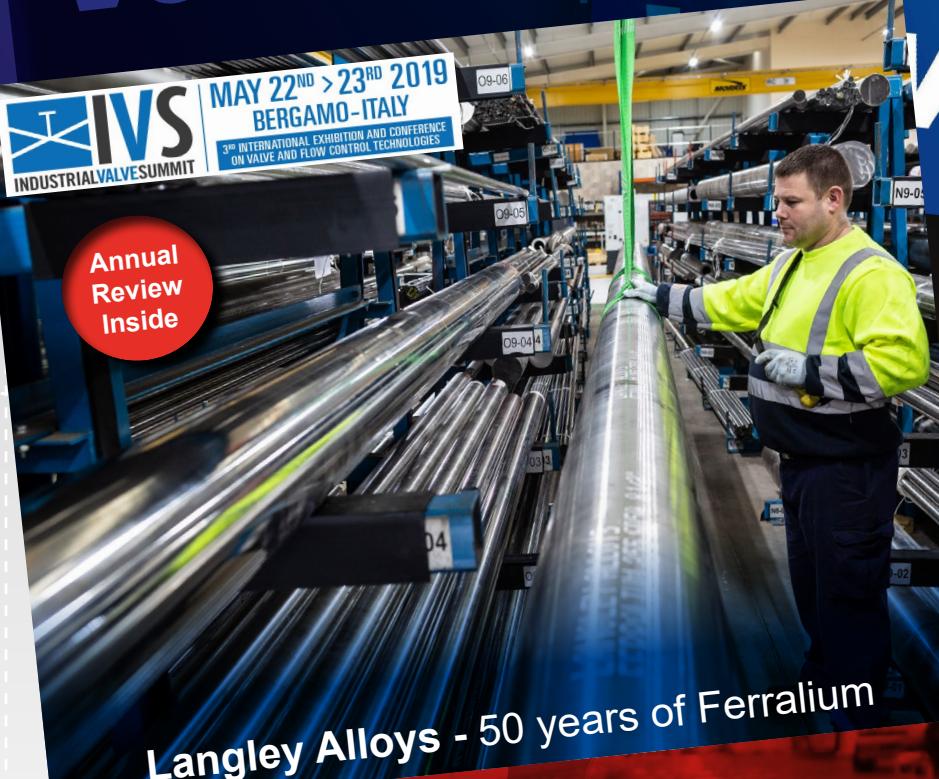


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valveuser Magazine



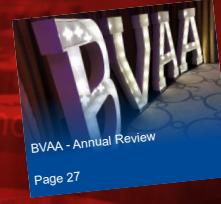
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Annual
Review
Inside

Langley Alloys - 50 years of Ferralium

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BVAA

Future Leaders Cohort 1 **futureleaders**

Programme



BVAA Cohort 1 (L to R) Elizabeth Waterman, Dave Godfrey, James Bozward, Ali Watson and Nikunj Patel

Delegates from the BVAA's very first ever Future Leaders Programme (Cohort 1) had a reunion in the Lake District.

The programme not only develops excellent leadership and presentation skills but also helps to develop long standing professional connections and friendships.

In any industry networking is one of the many tools required to succeed in any given field or discipline. With this in mind the programme encourages connections to be made with other professionals on the course as well as within the wider Valve and Actuator industry.

It is therefore even more valuable for the Future Leaders to continue to maintain these professional connections and they did just that as the team pulled together and pulled on their walking boots!

Alongside their best walking attire they completed their outfits with BVAA hats.

They visited arguably the most famous waterfall in the lake district with stunning views and vistas showcasing the surroundings natural beauty, but do you know where this was taken?

If you have an idea email us at enquiry@bva.org.uk



FLP Cohort 1 on their expedition



Boots? Check. Coats? Check. Backpacks? Check. BVAA Hats? Blue!



Hat Up!

If you've a charitable event planned, contact rob@bva.org.uk.

The BVAA will donate £50 to your charity if your behatted photo is chosen for publication.

Thank you Goodwin!

GOODWIN
INTERNATIONAL LTD



Donated Valves being opened at BVAA HQ!

We would like to say a big thank you to Goodwin International Ltd for their kind donation of valves to our training facility.

This was received late last year and provides a very appreciated addition to our current collection. These items are much needed resources in our facility and so donations of this kind are especially valuable.

Our courses cover a range of abilities from beginners up to more advanced levels and are designed to equip delegates with relevant information pertaining to Valves and Actuators.

Any in-house equipment only helps to enlighten and clarify various aspects of a specific valve or actuator types.

All donated valves and actuators are displayed at our training facility on a permanent basis and therefore the company brand (Goodwin) is proudly on display to countless course delegates, at various meetings and occasionally shipped out to in-house training coordinated by the BVAA.

Most recently our training was undertaken at TEAM Furmanite – Grimsby.

We would ask any members that are thinking of generously donating to our facility to please contact us on **01295 221 270** or alternatively by email to enquiry@bvaa.org.uk.

Not only is it great to have resources of this nature at our disposal, it also brings the BVAA great pride to have the associations' members' products onsite and on display.

Thank you again Goodwin International Ltd for this new addition!

BS EN 14141 Valves for natural gas transportation in pipelines – Performance requirements and tests - 5 Year Systematic Review

What is it?:

This European Standard applies to all valves (plug, ball, gate and check valves) used in onshore transmission pipelines for transport of natural gas in accordance with EN 1594, but with a differing temperature range according to the following three classes in accordance with EN 682:

- 1) - 10 °C to 60 °C;
- 2) - 20 °C to 60 °C;
- 3) the range stated by the purchaser for special design.

This European Standard comprises all valves which are components of the pipeline.

This European Standard specifies valves for pipelines with a maximum operating pressure (MOP) over 16 bar.

Control valves and safety valves are excluded from the scope of this European Standard.

This European Standard specifies requirements and appropriate verification tests carried out during production and for certification purposes to verify that the valves conform to the requirements. A summary of the product and type tests is given in Annex G.

Why is it important?:

It is important that this standard reflects manufacturers and users requirements. The annex applies to the type testing of pipeline valves.

Supersedes: Will potentially update the 2013 standard.



Thank you to The Great British Valve Group



The Great British Valve Group's Gavin Wheeler presenting BVAA CEO Rob Bartlett with their kind valve donation

We like to say a big thank you to The Great British Valve Group for their kind donation of a fantastic butterfly valve to our in-house training facility.

This recently received valve is in addition to the existing large donation already received from the Great British Valve Group which is in pride of place alongside our training rooms.

This is another excellent addition to our current collection which all aids in the implementation of training.

Having on hand examples of various valve types is a great resource.

We would ask any members that are thinking of generously donating to our facility to please contact us on **01295 221 270** or alternatively by email to enquiry@bcaa.org.uk.



Thank you to Latty

It is the season for giving!

As well as the above kind donations we were also extremely grateful to receive two fantastic valve tops from Latty in January.

Again, these will greatly serve our training activities and aid our course leaders in their endeavours.

As well as being present and on display in our training facility these may on occasion be sent out and used externally before being carefully packaged and returned to BVAA HQ.





Annual Review

Spring 2019

About BVAA

What we do

The BVAA is a 'not for profit' trade association established in 1939 offering services and advice to all members within the Valve & Actuator market, worth £3 billion annually.

We are the only organisation that represents all the main sectors in the UK valve industry including manufacturers, distributors, repairers and suppliers of valves, actuators and related products and services.

The BVAA offers a wide range of bespoke services to meet the needs of our members which include:-

- Providing value-based services to enhance customer access or market knowledge
- Providing training and development to members and their staff, to enhance competence and knowledge that improves their business
- To act, on behalf of the members, to understand and input into technical specifications that impact on their products and services and potential business

- Facilitating technical support to members, through the provision of independent advice on issues relating to relevant valve activity
- To represent members where necessary to outside bodies.

Membership of the BVAA gives your company a voice in shaping the industry's future and a measurable return on investment in networking, training, technical support and new business opportunities, that can only come from engagement with the BVAA.

Membership of the Association is open to companies registered in the UK who will subscribe to the BVAA Memorandum and Articles of Association, and who manufacture, distribute and/or repair industrial valves and/or actuators and/or related products.

We are also active in communal marketing, business development, business management and related support.

Members are also entitled to free editorial and representation within the world-renowned Valve User magazine which is a quarterly publication and one of a kind.

Meet the Team...



Rob Bartlett
Director & CEO



Karen Webb
General Manager



Barbra Homer
Training Co-ordinator



Ellie Davies
Events Co-ordinator



Laura Martin
Marketing
Co-ordinator



Rob Boycott
Business
Development
Consultant



Martin Greenhalgh
Technical Consultant



SERVING INDUSTRY 1939 - 2019

'Stronger Together'

'Stronger Together'

The maxim 'Keep Calm and Carry On' was first brandished across posters in 1939. It was the year WWII began and the year the BVAA was founded.

Much has changed in 80 years. Yet that phrase – despite its trite adaptations for tea towels, fridge magnets and the like – seems particularly apt today. Faced with the fallout of Brexit, unpredictable oil prices, a 'greying' workforce and the pressures of digital transformation, it would be easy to panic. But our industry is resilient and continues to make progress, thumbing its nose at volatility and uncertainty.

Purposeful collaboration

By definition, an association is '*a group of people organised for a joint purpose*'. And the BVAA's purpose is to advance the interests of British Valve and Actuator companies. Here at BVAA HQ we facilitate collaboration. But it's up to members to seize opportunities and maximise them. Our biggest achievements are those where members work with us, each other or external bodies to drive positive outcomes. Here are three highlights from the past 12 months:

1. Shaping valve guidelines

We facilitated a joined-up effort to shape the Energy Institute's new guidelines document for integrity management of valves in upstream and downstream hydrocarbon industries.

Along with the BVAA's Technical Consultant, valve engineers from several manufacturers met with the Energy Institute and operator representatives. Together, they discussed how to satisfy requirements for integrity management with practical guidelines rooted in technical knowledge. This shared investment of time and expertise means the guidelines are focused and realistic, which will benefit all valve suppliers to the energy industries.

2. Priming leaders of the future

Our Future Leaders Programme continues to make great strides, and has become a reference point for other industries looking to address skills and leadership gaps. In recent months, trade publications including Valve World, Inside Oil & Gas, Engineer News Network and EngineerLive have covered this initiative. It shows what we can achieve when members put competitive differences aside to focus on the greater good. The future of the British valve and actuator industry is brighter thanks to the efforts of FLP participants and their employers.

3. External collaboration

Our chairman Colin Findlay has had an excellent first year of tenure. Most notably, he's represented our industry at high-profile events and with key influencers such as the Minister of State for Trade Policy. With uncertain times ahead, it is good to know that we have such a confident and competent individual guiding us.

Onwards and upwards

Nobody knows how the coming months and years will unfold. But one thing's for sure: our industry's greatest strength is its ability to face-up to difficult situations and tackle them together. If we continue in this vein, we'll be poised to survive and thrive into the 2020s and beyond.



'Here at BVAA HQ we facilitate collaboration. But it's up to members to seize opportunities and maximise them.'

'Our biggest achievements are those where members work with us, each other or external bodies to drive positive outcomes.'

Chairman's Report

Reflecting on my first year as Chairman of the BVAA, I can't over-emphasise the excellent work that is done, constantly and consistently, by the core team. They deliver training and technical support as well as fabulous events for networking, learning and company exposure. The BVAA is an outstanding organisation, and it can proudly hold its head up in the world of trade associations as an innovative and exemplary body, delivering value for all its members.

However, I also want to think more deeply about our constituency: the companies which form the heart of our industry. From large manufacturers to smaller, more niche manufacturers, distributors, suppliers and sub-contractors, British valve and actuator businesses are hugely diverse. Yet a shared engineering-led ethos and other common traits underpin a global reputation for quality, innovation and reliability. This forms a strong base from which our industry can trade confidently, with approval from major customers in demanding sectors such as oil and gas, power and nuclear.

At the recent Valve World exhibition in Dusseldorf, I took time to look at the range of participants and to talk with international suppliers, distributors and customers. Nothing that I saw gave me any cause for concern about British products, services and capability. Naturally, I was asked multiple questions about Brexit. But importantly, these were related to practical matters surrounding sales and competition rather than any thoughts of our demise.

So where do we go from here? I strongly believe that the BVAA needs to focus less on the improvement of services that are already leading-edge, and more on how we help steer our industry through global change. Globalisation trends are creating unprecedented challenges for UK manufacturing. The price point for oil is driving profits down. An aging population means that there are skills shortages, both within our industry and within our client base. And as I write, Brexit is still looming, with unknown consequence or opportunity.

As we head towards 2020, the BVAA is thinking about how to address those challenges. We need to offer improved understanding of these issues to our members and consider how we can exert influence, where appropriate.

A case in point is the BVAA's Future Leaders Programme, which is delivering huge benefits in the support and development of existing talent. It's a prime example of how the BVAA brings meaningful influence that changes perspectives and improves the future. And it proves that when we pool thinking, effort and investment as an industry, we can achieve great things.

Another item on the BVAA's radar is the impact of digital transformation on process industries and manufacturing. Digital Twinning featured at our annual conference, showing how the process plants of the future will collect and use data to support reliability and maintenance. Rapid Profiling / 3D printing is also becoming increasingly mainstream, bringing new design, production and business challenges. The BVAA Board will take the lead in understanding these trends, then presenting relevant information to our members to ensure the British valve and actuator industry remains at the forefront of innovation.



Colin Findlay, BVAA Chairman

80th Year

The BVAA enters its 80th year vibrant, robust and capable. We should be proud of our achievements as an association and as an industry. But we cannot be complacent. I look forward to helping individual members get the most from everything we do. And to ensuring that the BVAA plays a strategic role helping all members keep pace in a rapidly changing world.



British Consul General Rafe Courage, Rob Bartlett BVAA CEO and BVAA Chairman Colin Findlay



Future Leaders Cohort 3 on a factory tour

Director's Report

I was so excited by the opportunity to update members on the many developments at BVAA, my first draft of this report became so long, I had to make it a full-on article! (see pages 4 - 6).

However, members might already be aware that Trade Association work is like no other. There's a significant element of routine activities - the monthly, annual or indeed bi-annual events - entwined with a fair dose of '*anything could happen in the next half hour!*'

Our experienced BVAA team understand that assisting a member promptly is our top priority and usually overrides whatever else might be on today's 'to do' list. Consequently, what we planned to start at 08.30am say, can commonly be deferred many hours, occasionally days, and that it *still* gets done in timely fashion, often out of normal hours, is a sign of the commitment of our wonderful Secretariat Team.

Added spice – indeed joy - comes from the sheer variety of our work. No two days are the same, and our challenges reflect the diversity of what we do, and indeed who we represent.

I am delighted that our new Chairman, Colin Findlay, has entered into his BVAA responsibilities with such gusto and enthusiasm, and especially welcome is his deep interest in what we are doing and his great wisdom he imparts in his guidance. A precious commodity and hugely appreciated.

Among our agreed priorities at the moment is to spread our Messages wider and further than ever before. Already there are clear successes with this, and we are already enjoying a much higher profile thanks to our '*Stronger Together*' philosophy and associated PR strategy. Indeed, overtures are being made from far and wide now, and managing how we develop that interest will be just as important as generating it.

As CEO, financial stability remains my top priority. I go into detail elsewhere about how despite membership levels being sustained, subscriptions income is steadily dropping, year-on-year. Thus, we must constantly find other ways to fund ourselves. But an excessive (tax-inducing) surplus here is considered just as '*bad*' as a loss. So, a fine balance is needed, and so finely balanced are our funds/initiatives, that a success or poor attendance at just a single activity has the potential to dictate which side of the breakeven point we fall. Being determined to deliver as much as possible within the subscription remains our goal, and only exacerbates the challenge of providing value for money and remaining financially secure.

Activities – such as desktop exhibitions – have been sustained at last year's unprecedented levels, requiring us to have full-time support on both Events (Ellie Davies), and our marketing function (Laura Martin). Such is their level of confidence and competence, it's gratifying to see both our young new staffers give the impression of having been in position for years.

Barbra Homer continues to co-ordinate our Training activities with solid precision, and our General Manager Karen Webb continues to ensure that the BVAA secretariat and our interaction with members is a well-oiled machine. We must not forget the meticulous but unsung background work of Chris Griffin in our Accounts department.



Rob Bartlett, BVAA CEO

Rob Boycott (Business Development) and Martin Greenhalgh (Technical) have continued to enhance their respective activities, with growing work-loads of their own. And we are but nothing without the dedicated support of our myriad of volunteer technical and commercial committee chairs and experts, supporters and members in general, not to say our Board who endeavour to represent members' views to our executive body and steer our work.

Where are we now? Undeniably at our strongest position in our 80-year history.

I believe readers will conclude from our Accounts and this Review that we continue to be financially-robust and activity-rich Transposing the adverb with the noun there would be great!

But, we must ensure BVAA represents this industry for *another* 80 years, and a careful, measured, consultative approach - taking *all* our interest groups with us - has to be our *métier*.

'Added spice – indeed joy - comes from the sheer variety of our work. No two days are the same, and our challenges reflect the diversity of what we do, and indeed who we represent.'



Rob Bartlett (right) with Dave Martin (**'It's obvious he knows pretty much everything there is to know about valves'*)

*Recent Feedback from Dave's Control Valves course.

Actuator Working Group

While the WG – which meets concurrently with BSI's PSE18/5 (actuators) - has not met in 2018, we have been busy at CEN, ISO and API standards meetings and development during the year.

Functional safety – “SIL” for Valves and Actuators

A new work item proposal (NWI) has been registered and approved by CEN TC69/WG1 to develop an EN standard specifically for actuated valves. An initial draft was put forward and this was discussed at an ISO/TC153/WG1 “kick off” meeting in Berlin on 11 February 2019. The scope is to define the procedures and methods with which all relevant components of automated industrial valve packages (including gearboxes and mounting kits) can be evaluated according to the requirements of IEC 61508, in order to integrate them into a safety instrumented system (SIS). Paul Reeve of BVAA chaired a BVAA Technical Expert Group discussion and attended WG1 as our delegate.

New standard - prEN 15714-5 Linear pneumatic actuators

prEN 15714-6 ‘Industrial valves – Actuators - Part 6: Linear pneumatic and hydraulic actuators’ - A final draft has been completed, the next stage will be circulation for national comment. CEN/TC69/WG1/SG10 has mooted whether a separate hydraulic linear standard be developed due to the differences between pneumatic and hydraulic requirements.

EN15714-3 Pneumatic actuators - Revision

A proposal to revise EN15714-3 was balloted and approved by CEN TC69/WG1 in May 2018 – we will review the comments when available. This is an important standard, which the UK significantly influenced in its original development, thus we must be fully engaged in any revision.

EN – ISO Standards Harmonisation

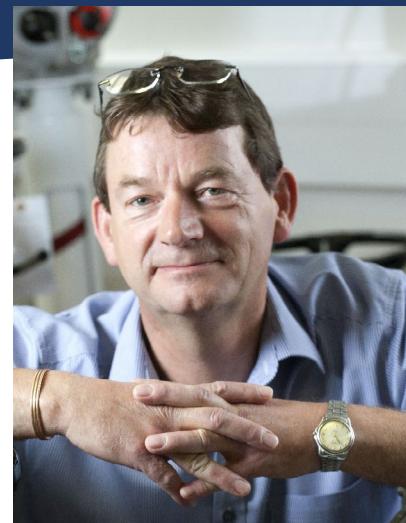
With the adoption of the CEN standard for electric actuators (EN15714-2) being the basis for a new ISO standard driven by Korea and China, it seems likely that ISO will in time move to develop pneumatic and hydraulic standards. We must now engage with CEN as we did in the 90’s and 2000’s to ensure our influence and direction is at the forefront of international actuator standards and our needs met. It is CEN’s history of standard development and adoption that has driven equivalent ISO standards development - we must continue being full engaged.

ISO/DIS 22153 Electric actuators for industrial valves - General requirements

This draft standard was balloted and approved with comments from the UK, Germany and Italy and will be resolved at a meeting to be held in Berlin (DIN) on 15-16th May 2019. Publication will follow in due course. An example of the “harmonisation” described above, this draft ISO standard was developed and largely copied from EN 15714-2.

ISO New Gearbox standard: ISO/DIS 22109

CEN’s PWI 69189 ‘Industrial valves — Gearboxes for industrial valves’ has been halted and CEN have agreed to transfer the work to ISO/TC 153/WG1, who have adopted the CEN draft. It has been agreed to skip the Committee Draft stage (CD) and proceed directly with a Draft International Standard (DIS). This has recently been circulated for national comment as ISO/DIS 22109. Any comments must be submitted to the BVAA/BSI secretariat before the March 11th, 2019 deadline.



Peter Hirst, Senior Applications Engineer, Rotork

API revision of ISO 12490: 2011

ISO 12490 ‘Petroleum and natural gas industries — Mechanical integrity and sizing of actuators and mounting kits for pipeline valves’ is being converted by the American Petroleum Industry as API 6DX – ‘Standard for Actuators and Mounting Kits for Valves.’

It appears largely a reformatting exercise with no technical comments yet, but since they might materialise, monitoring continues. This decision indicates that the USA is still prepared to develop their own national standards even if international standards they previously helped to develop already exist.

2019 activity

BVAA experts will continue to attend CEN & ISO meetings and our WG will provide support and guidance for members who actively input into actuator standards development.

As ever, I very much welcome and appreciate your contributions, support and attendance in helping to maintain the influence, development and relevance of our industry in challenging times.



Generations of Rotork actuators controlling critical jetty product transfer operations in the Netherlands

Valve Working Group

Going into my second year as chairman of the Valve Working Group, again we are seeing well supported working group meetings. With a lot of work on standards and Technical Expert Groups (TEGs) done throughout the year, this work combines to give a very informative and interactive set of working group meetings.

Our first meeting of the year was held at Rotork Leeds on March 8th and was hosted by Mathew Knapton, preceded by the now well-established social event on the evening before the session. The only downside to the event was a morning of heavy snowfall that restricted some of the members from attending the Working Group.

The meeting agenda has been enhanced to include a quality moment and a short technical presentation on a topic that is of interest to members. A Technical presentation from Latty on fugitive emissions stem packing was well received. The meeting finished with a very interesting tour of Rotork's facility.

The second meeting of the year on October 10th was hosted by Steve Jenkins of BP at the BP Upstream Learning Centre in Sunbury. Again, a full house of some twenty members ensured a full day of discussion and debate.

PDL gave a presentation on API 17TR8 which is a technical report that serves as design guidelines for high-pressure high-temperature (HPHT) equipment, specifically for subsea applications which include valves.

An important area for further working group discussion was presented by BP on the work being done by The International Association of Oil & Gas Producers.

IOGP have been progressing standardisation of equipment and packages under the banner of JIP33. Contained within JIP33 is specification S-562 "Supplementary Requirements to API Specification 6D Ball Valves" which has finished its first review and is currently being incorporated in BP and other end user valve specifications.

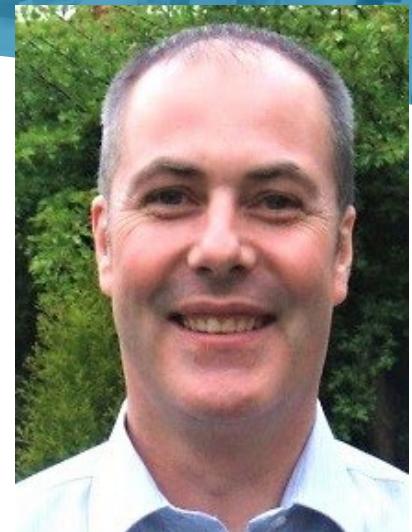
At both working groups an area of growth and focus has been on the Technical Expert Groups (TEGs).

This year TEGs have been active in the following areas; Fugitive Emissions, SILs, Subsea, Diaphragm valves, UK Qualification Scheme SVs/RVs, API and ISO 8000. A newly rebirthed Fire Test TEG held its first meeting to determine responses to a revision of ISO 10497.

These TEGs are at various stages of maturity and comprise a small number of experts interested in the TEG's subject matter. The TEGs have proved a good focal point to look at short or long-term industry challenges, developments, new standards and related issues.

Martin Greenhalgh – BVAA's *Technical Consultant* – has throughout the meetings provided in-depth updates and commentary for industrial valve standards. Similarly, Ron Strang has done the same with regard to the PED and ATEX directives and some input into the potential effects of Brexit.

API activity has been very prolific with many standards in various stages of revision. Notably the following standards being revised or published; API 6A 21st Edition and API 6FA 4th Edition



Chris Williamson, Engineering Director, BEL Valves

published and API 6D 25th Edition being revised. Reporting on 6D activity from Houston has been by John Marsh, Goodwin's, who has attended in person.

Our first meeting of the 2019 year is planned for March 7th at Goodwin International.



Valve WG receive update on API 17TR8 at BP, Sunbury



Martin's Technical update to Valve WG members at Rotork Leeds in March

Technical Report

BVAA's Technical Service

The key role is to make available to member companies, Government, end users and customers, the expert knowledge that we possess as an organisation. Industrial Valves give life to a wide range of industrial processes in our modern society.

They are also items of pressure equipment, so we have a fundamental duty of care to society to ensure that they are safe, as well as providing reliable and cost-effective performance.

The BVAA is recognised worldwide as a centre of excellence for valve expertise. Thus, we can provide solutions to members on technical issues and exert influence for the benefit of members and the wider community.

We contribute our expertise to:

1. the development of European and International standards,
2. providing advice and information to members and government on issues concerning the Legal Responsibilities and Essential Safety Requirements of the range of our members products
3. world class training in all aspects of valves and actuators.

Standards Activity

In my role as chairman of BSI PSE/18, I attend the plenary meetings of CEN/TC69 in June and ISO/TC153 in October, as the UK's Delegation Leader. Mike Gray (Safety Systems) continues to be responsible for all Safety Valve activity at both PSE/18/6 and ISO/TC185. Similarly Peter Hirst (Rotork) takes care of the Actuator standards activities as Chairman of PSE/18/5, and as the UK's principal expert to both CEN and ISO.

I am very grateful for their contributions. The UK also hosted this year's TC153 Plenary and working group (WG) meetings in London, and the BVAA kindly organised a reception for the delegates.

Monthly standards activity reports are issued to members of the Valve and Actuator WGs. The key-word column within allows members to efficiently find those activities that are of special interest.

Technical HotSpots are the way that members of the Valve and Actuator WGs are kept up to date with developments with EN/ISO standards, from New Work Item (NWI) proposals, to various stages of Draft Standards issued for public comment.

The HotSpot format enables recipients to immediately determine the relevance to their business and any actions they should take.

2018 has seen the start of two significant NWIs. In CEN, '*Industrial valves – Functional safety of safety-related valves and actuators*' and in ISO, '*Industrial valves — Type-testing of valves*'. Through our BVAA experts we are contributing to the development of both standards.

Directives

The issue of the definition of actuated valves as a machine or partly-completed machine remains unresolved.

The EU Machinery Directive WG was not able to reach an agreement, so the matter is now held in abeyance awaiting a revision of the Directive, when the text will be clarified so that the meaning is clear.



Martin Greenhalgh, BVAA
Technical Consultant

The potential implications of the UK leaving the EU with 'No Deal' have been advised to members in the form of HotSpots.

Whatever the outcome, Deal or No Deal, the BVAA will be able to provide the necessary advice to members helping them to fulfil their legal responsibilities.

I share the Directives work with Ron Strang (Alco). We regularly receive member enquiries and Ron's expertise and commitment to helping to answer these is an extremely valuable resource.

Technical Expert Group Activity

'TEGs' are formed for specific tasks usually supporting the development of an EN or ISO standard. They comprise small groups of experts for the specific topic and are time-limited.

The UK is making a NWI proposal for a revision to EN ISO 10497. Thus, the Fire Test TEG is co-ordinating BVAA expert comment on the proposal and will support the revision of the ISO should that be approved by ISO TC153.

The EN NWI to develop a standard '*Industrial valves – Functional safety of safety-related valves and actuators*' is being followed by the Safety Integrity Level (SILs) TEG under the leadership of Paul Reeve (Silmetric). The standard will define procedures and methods with which all relevant components of automated industrial valve packages can be evaluated according to the rules



Martin Greenhalgh delivering Valves Advanced Level Training

of IEC 61508 Parts 1, 2 and 4 to 7, in order to integrate them into a safety instrumented system (SIS). It provides a method to determine all relevant factors, associated with the product, to be fully taken into account and thereby meet the specific needs of users.

Training

Our training courses are technically up-to-date, interesting and easy to adsorb. They are presented by experts with an unrivalled knowledge of their specific topics.

The majority of our courses are also certified by the CPD Certification Service. Courses that are presented at the user or member's location are routinely tailored to meet their own specific needs – a valuable option.

Energy Institute

The Energy Institute has developed '*Guidelines for the Integrity Management of Valves for the Upstream and Downstream Hydrocarbon Industries*'. Integrity management of valves is recognised as being a key component of each user organisation's overall integrity management requirements.

In addition, the industry has highlighted common issues which the guidelines address. BVAA strongly supported the EI aim and our members have provided their expert knowledge to help in the writing of the document.

Goals for 2019

Provide the membership with advice regarding EU Directives and equivalent UK legislation following the UK leaving the EU in March 2019. Also to continue to develop TEG's to support active Standards work and other interest areas.

Finally, I am indebted to the rest of BVAA team for their ongoing support which ensures an efficient communication of all the Technical Service output to BVAA members.

'The majority of our courses are approved by the CPD Certification Service. Courses that are presented at the user or member location are routinely tailored to meet the specific needs of that organisation.'



Martin at ACHEMA 2018

VALVE & ACTUATOR users' MANUAL

British Valve & Actuator Association

Martin Greenhalgh CEng FIMechE

BVAA's Technical Hot Spots

BS EN 16688-2016+A1:2018 Industrial valves — Requirements and testing for metallic valves as pressure accessories - amended standard issued

What is it?:

This European standard applies to metallic valves as pressure accessories for industrial applications with a maximum allowable pressure P_{AS} greater than 0.5 bar in accordance with European legislation for pressure equipment and specifies minimum requirements applicable to design, manufacture, testing, materials and documentation.

All relevant essential safety requirements of the European legislation for pressure equipment applicable to valves have been taken into consideration and are addressed in this standard.

The Standard has been amended at the request of the Harmonised Standard Consultant and the Pressure Equipment Directive so that it complies with the Directive. The Amended standard should now be published in the EU Official Journal.

Why is it important?:

The standard has been referenced in revised BS EN 593-2017 General Purpose Butterfly Valves. The Annex ZA is extensive and complying with BS EN 16688 will address all the essential safety requirements of the European legislation for pressure equipment as they apply to valves. It will be referenced in other valve products standards. A revised Annex ZA will be drafted from EN 16688+A1 and have a date in the Official Journal Annex ZA. The Overview document EN 16688 and reference documents to the standard have been prepared by Ron Strang and Martin Greenhalgh of BVAA. Please send any comments or questions to martin.greenhalgh@bvaa.com and ron@alco-valve.com. The Overview will be updated once the draft of EN593 has been published for public comment.

Supersedes: This is an amended standard and supersedes BS EN 16688.

ISO/CD 5752 Metal valves for use in flanged pipe systems — Face to face and centre to face dimensions - committee draft issued

What is it?:

This document specifies the basic series of face-to-face and centre-to-face metal valves used in flanged pipe systems. Each basic series of face-to-face and centre-to-face dimensions may be used as required with flanges of mating dimensions conforming to ISO 7005 series.

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

- DN15 to DN2000
- Class 125 to Class 2500
- PN1 to PN400

Why Is It Important?:

The existing standard is significantly out of date. It is referenced by ISO product standards. It needs bringing up to date. The work in the ISO committee will take note of the work on EN593 in CEN TC69/WG1.

Supersedes: This is a revision of the existing international standard. ISO 5752:1982 will supersede when the new standard is published.

Activites Report

BVAA Booms from another year of exciting events!

This past year has again exceeded expectations where events are concerned. It's easy to see the extensive benefits to our members in terms of the networking opportunities on offer.

With such a range of different activities it is important for our members to ensure that they make the most of the exclusive events available. Different formats and price points mean that there is always something suitable and accessible to all. The previous year was no different in terms of offering a jam-packed programme of events.

Significant changes have also happened at BVAA HQ which includes the appointment of a new Events Coordinator (Ellie Davies) and Marketing Coordinator (Laura Martin) in August 2018.

Future Leaders Programme

The Future Leaders Programme is into its third consecutive and very successful year. The year's intensive course culminated in an exceptional presentation at the BVAA's 79th Annual General Meeting. The Programme offers fantastic opportunities to the rising stars of the wider Valve and Actuator industries and equips them with the tools to reach new heights in their personal and professional careers. The innovative initiative is covered in finer detail further along in this Review.

Customer Golf Day

A swinging start to September, with another successful day of sunshine, golf and of course networking.

The BVAA saw a fantastic turn out at the Portlethen Golf Club, with 7 teams taking to the course, all aspiring to win the coveted BVAA Cup and other fantastic prizes. Sadly, our very own CEO Rob Bartlett and his team came in bottom of the leader board... however it wasn't all doom and gloom for their team as Ryan MacKay (Rollstud) won Nearest the Pin. Longest drive was achieved by Ian Newell (NOV Rig Technologies) a customer of a fantastic member. Make sure you bring along your customers to the next event and see if they can get their hands on a fabulous golfing prize.

The BVAA Cup winners were once again the HSP team of Roddy Philip, Gordon McNair, Derrick Mackenzie and Jamie May. Keep an eye out on BVAA news to see if anyone can steal the top spot at our next golf event in 2019.



Stuart Billingham from Kent Introl at the Golf Day. Great swing Stuart!

Spring Conference & Golf

The BVAA's Spring conference took place a little bit further up on the map this year, at a new favourite venue of ours, Formby Hall. The two-day event got underway with an 18 desk exhibition, made up of both members and guests, and of course lots of coffee. Following on from the exhibition the BVAA welcomed seven guest speakers, each discussing important and relative industry topics.

One of our guest speakers Fraser Maitland, showed off more than just his industry knowledge by treating us to an excellent performance on his pipes. The evening continued with more fantastic entertainment from comedian Rod Woodward.

After a delicious dinner, plenty of gin and tonics and a wonderful night in Formby Hall, it was time to hit the greens. Once again, the BVAA Cup was up for grabs, and this time won by Matthew Riach, Peter Burnett, Dean Holroyd and Mark Topliss.

We will be returning to Formby Hall in 2019, so get in touch to book your place!

Desktop Exhibitions

Desktop exhibitions having been a roaring success over the last year. We would like to thank all of our hosts, we have seen exceptional facilities and equipment across the UK, and not forgetting the fabulous lunch time spreads. The desktops continue to provide an undeniably platform for networking, knowledge and product sharing.

Pink Day / Business Development Meeting / Charity

Throughout autumn the BVAA team got involved in raising funds for some very important causes.

The BVAA celebrated in style at the latest business development meeting, getting down to business in the PINKEST attire that could be found, all in aid of Breast Cancer Now. It was a fantastic day with all things PINK... including the BVAA ladies' hair. Thank you to everyone that got involved in helping us raise £140.

Another incredible contribution was made to Children in Need after the BVAA and all its fantastic members managed to raise a whopping £1158 at the AGM and Dinner Dance. Thank you to everyone that attended the event and for donating to such a worthy cause.



BVAA Desktop exhibition at Worley Parsons

BVAA AGM

The BVAA AGM this year was held at Rudding Park in Harrogate.

The venue combined both elegance with a warm and inviting ambience not to mention stunning spa facilities.

There's fuller coverage of the BVAA's 79th Annual General Meeting in the BVAA news section of this issue of Valveuser.

The day comprised of informative and engaging presentations which included BVAA's own Future Leaders Cohort 3, Mark Homer - VP & Head of Digital Transformation - GE Digital - Predix ServiceMax and Roger Bromley - Visiting Professor of Innovation & Collaboration, University of Huddersfield.

The day rounded off with the customary Black-Tie affair which presented an exceptional evening of dinner, dancing and entertainment.

The Annual Ball was preceded with a champagne reception, awards to individual members who had provided particularly helpful service to the Association over the year and the Future Leaders Cohort 3 who received their own crystal awards.

We would like to again extend our gratitude to our generous AGM Sponsors without whom this event would not be possible:



BVAA ladies sporting their Parker Hannifin glasses at Valve World



AGM Dinner, Laughter and Drinks



Mark Homer presenting on digital twins



BVAA members placing their bets at the AGM dinner dance

Valve World 2018

Covered in detail within the BVAA news section - Valve World was a tremendous success and definitely lived up to its expectations by providing a platform for attendees and exhibitors to meet new customers, develop existing business contacts, strengthen the international sales network and increase export opportunities.

The products and services being exhibited were aimed at a variety of industries which included: oil and gas, petrochemicals, chemicals, food, marine and offshore, water and waste management, automotive, mechanical engineering, pharmaceuticals, medical engineering and powerplant engineering to name a few!

The BVAA stand had a number of co-exhibitors comprising VMA, BVAA members and the central BVAA stand providing refreshments, lunch and seating to accommodate our members.

This central lounge also proved very advantageous as an exclusive area to be used for meetings, networking and discussions.

The trade fair attracted over 11,000 professionals from 86 different countries, of whom over 70% according to the Valve World report following the event were executives and key decision-makers.

The next VALVE WORLD EXPO and its conference will be at Düsseldorf Fairgrounds from 1st to 3rd December 2020.

Business Development Group Report

Desktops Exhibitions

Our Desktop exhibitions programme is, we believe, unique among associations – certainly among those in the fluid-controls sector of Engineering - and is clearly identified as a major benefit of BVAA membership by our members. The value delivered means it can rightly be considered as a flagship service.

Indeed, the programme goes from strength to strength with a dozen or so events held over the last year, including Apache, EnQuest, KBR, SNC Lavalin, etc. to name but a few. We continue to recruit new i.e. never-before visited hosts too, spreading our reputation wider and further into our customer base. That we still fill these events to capacity, despite quadrupling their frequency, is testament to their power.

And already this current year Rob Boycott and his BVAA support team are on target to repeat last year's stellar performance.



Desktop Exhibition at Worley Parsons 2018



Desktop Exhibition Apache 2018



Desktop Exhibition SNC Lavalin 2018

Staff

This leads me nicely on to reporting that the Association needed to find two new staff members to support the work in my area, and over the summer the Secretariat managed to secure two superb candidates. We gladly welcomed back Ellie Davies (our former Gap Year employee) who gained a degree in Events Management on her '*sabbatical*' and consequently is now BVAA's Events Co-ordinator. Laura Martin joined us at virtually the same time and has taken on the role of Marketing Co-ordinator. Laura and is responsible for Valve User Magazine, Social Media, websites etc. and also delivering our marketing strategy. Both new recruits have fitted in perfectly and are now key members of the BVAA team.



Ellie Davies - Events
Co-ordinator



Laura Martin - Marketing
Co-ordinator

BVAA Messages

As the Association evolves and becomes more things, to more people, we were conscious of the need to redefine our messages. A working group was formed including the Chairman and Vice Chairs, our Director and a PR consultant, with additional input from our Board. After two sessions we came up with a non-exhaustive but largely encompassing list of the services the BVAA offers and to whom they are relevant.

They were two major surprises. Firstly, the sheer breadth and diversity of our work. Secondly, that in many instances there were *multiple* beneficiaries – the difference was oftentimes merely one of perspective. For example, our Supplier Day was primarily conceived as a benefit to our many supplier-members. We'd perhaps not fully appreciated its benefit to the manufacturer-hosts, and indeed all the spin-outs like the networking opportunity from the preceding dinner, the mini-expo, the informative nature of the speakers etc. It was something of a revelation. Our '*smorgasbord*' of services – '*something for everyone*' – was in actual fact often-as-not benefitting large swathes of members, just in different ways and to a different extent.

From our Messages work, the strapline '*Stronger Together*' emerged as a strong core message, and its derivatives *Working Together, Selling Together, Innovating Together* etc., were born and were equally compelling. These now form the basis of our new support documentation, relevant for existing members, future members and associates like Desktop hosts. This also



Tim Guest, BVAA Vice Chairman

ties in with our “*quote a member*” initiative which aims to help encourage more business-to-business trade within BVAA member companies and indeed UK companies.

After the success of the Messages exercise, the Association decided to employ the services of PR Consultant Mary Hamblyn (Articulate) to help get these messages out to the wider community. Mary has assisted further with copy writing articles and having them published in national publications to further grow the reputation of the BVAA and its members. The Secretariat is also currently negotiating some new, additional events as spin outs of this initiative, which we will no doubt report on in due course.

Market Reports

In Quarter 3 of 2018, we launched our first O&G Market Tracker in association with Westwood Global Energy Group. This is a new Oil and Gas focussed report that highlights projects and trends, mainly in the Up Stream sector, but with plans to develop further its Mid Stream and Down Stream content in the second iteration, due in Spring 2019.

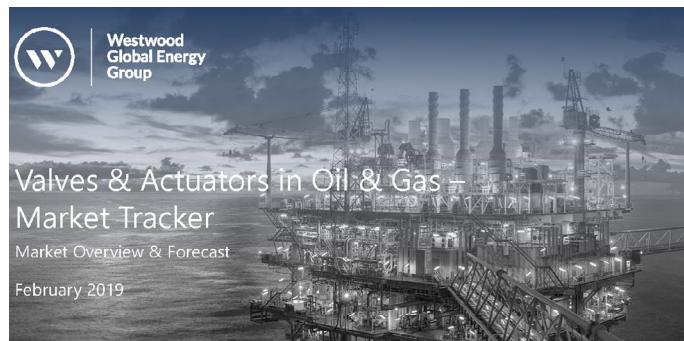
This report is provided free of charge to BVAA members and has some useful insights into what the future holds and has been useful in helping members plan for their future activities. Another great example of BVAA ‘added value.’

The Oxford Economics Global Forecast continues to be our main reporting tool for global valve and actuator trends. Now in its third year, the report has been developed and improved with regular input from working group of member companies. It does however face considerable challenges as the depth and breadth of detail members often desire is rarely available through national statistics – the basis of the document – and indeed the quality of data varies considerably country-to-country and region-to-region.

If you have used the OE report and have feedback, we welcome your suggestions for improvements – please contact:
rob@bvaa.org.uk

Regional Dinner & Supplier Day

In February 2018 we held our Regional Dinner & Supplier Day in Brighouse. This year we preceded supper with three marketing workshops, as an additional free bonus.



Westwood O&G Market Tracker available from the members only section of the website.

This event – despite the heavy snowfall – drew record numbers to the informal dinner, with guest speaker and Falklands War veteran, Simon Weston proving an inspired choice.

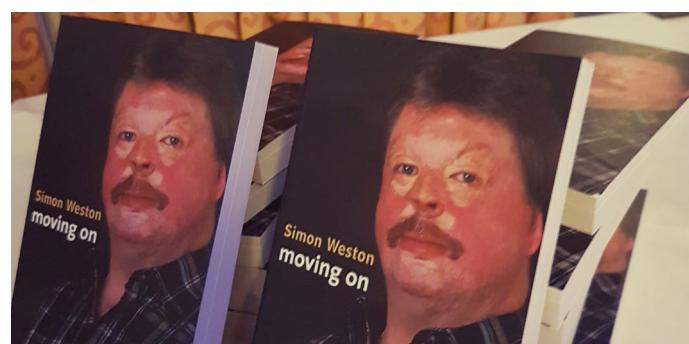
The Supplier day was also a success with 18 companies exhibiting, and C. 100 supplier interactions with the procurement teams from some of our larger members. Feedback was positive from both supplier members and our larger OEMs. A similar event is scheduled to be run in February 2019.

One of the initiatives put forward by the Business Development group was to hold more, smaller, regional events with a focus on networking and referring business.

The Association plans to hold one of these events as a trial in early 2019 and welcomes any more suggestions on locations and activities for future events. Please contact the secretariat if you would like to put an idea forward.



Enjoying the regional dinner in Brighouse



Simon Weston, guest speaker at the Regional Dinner

Training Report

Training isn't important ... it's vital!

We often see a flurry of training bookings at the beginning of each financial year as new budgets are announced, or at the end when remaining funds need to be utilised or lost. But training is so vital it is deserving of a properly organised company strategy. At BVAA we pride ourselves on being able to offer flexibility within our core training programme. This has been something a growing number of our customers have appreciated, as organisations – members and non-members – plan the development and knowledge-progression of their teams.

Continuous education ensures attendees are on the cutting edge of industry developments. As many of you will know, our programme runs each spring, summer and autumn. In response to attendee feedback, we have now added the dates for the entire year to the training tab on our website, making it easier for our customers to plan their training long-term.

We have many attendees returning in the summer term for *Valves: Advanced Level* (now CPD Certified) training who have been inspired by the *Introduction to Valves* training in the spring. These courses particularly lend themselves to this as they are delivered by the same lecturer and the informational consistency is guaranteed.

'Don't wait for a hazardous incident to occur before planning routine training.'

Prevent them. Refresher courses can help motivate staff, re-establish key values and are vital to ensure safe and correct practice and avoid workplace complacency.

According to the government's Health and Safety Executive, an estimated 621,000 UK workers suffered from a serious injury in the last year alone. Because such statistics tend to be recorded by the industry in which they occurred, rather than the precise activity at the time, the direct causes of these incidents are difficult to determine.

The internet is awash with numerous valve-related examples however. Given the prevalence of valves and their vital functions, this figure alone should be enough motivation to consider some intensive safety, workplace and refresher training for everyone. No organisation wants to experience an HSE investigation or their punitive fines, perhaps even a conviction!

No matter which technical level someone is at; there is always something new to learn and room for improvement, as evidenced by the number of senior engineers attending our courses. BVAA recommend that you attend refresher training every three years; this might just help to identify problems in existing routines, break bad habits, and motivate change. You will make some good contacts along the way too! We are so fortunate that our



Karen Webb,
BVAA General Manager

knowledgeable lecturers remain ardent about their subject; enough so to continue to invest their time to update and deliver their courses, receiving excellent feedback, time after time. Once you've attended one of our courses, our lecturers are often available to provide ongoing support if required.

Training on Tour

The demand for on-site training has grown at an unprecedented rate, with more and more organisations bringing our courses to their own premises. Not only is this more economical for the host, but employees are not incurring travel expenses or excessive downtime.

Our brilliant lecturers contact each host in advance to discuss their requirements. The technical content can generally be tailored to the host organisations, making learning more engaging and easy to apply on return to work. Attendees are more relaxed and open to learning with training focussed in their own working environment.

After successfully taking our training to Aberdeen for three consecutive years, we are delighted to announce that this year's dates have now been confirmed (see website or contact barbra@bvaa.org.uk for additional information). We are grateful to Emerson (Dyce) for the use of their fantastic Aberdeen training facility and access to their flow loop. Attendees on the introduction courses there can see the valves in action and put theory into practice in a safe and supervised environment.



Training course delivered at BVAA HQ

Future Leaders



FLP Cohort 3 just prior to their AGM presentation to the BVAA membership



FLP Cohort 2 part-way through their reunion 'yomp' across the Yorkshire moors

We recently reached the culmination of the BVAA Future Leaders Programme, Cohort 3.

However, as a continuous development based-programme, it never really ends, as long as the *alumni* remain in the industry. BVAA also deliberately encourages reunions and joint events between the groups, to foster the high levels of co-operation that run through the British valve industry.

Three years in, and after three very different cohorts and ever-extended programmes, plus also having crossed now into delivering the programme exclusively to millennials, we are reviewing the content and intake procedures in order to maintain and improve the quality of programme and delegates alike.

Regular readers will be aware that this fantastic programme encompasses a now extended and very comprehensive personal development programme.

But there is also free technical training from the BVAA (with a life-long discount thereafter), a series of '*hosted*' days at members' premises (best practice/product awareness/knowledge sharing/benchmarking etc.) as well as customised visits to industrial centres of excellence and opportunities for a mentoring qualification. This year that included for the first time a visit to an oil refinery at Stanlow, a hyperbaric testing facility tour and a visit to Heysham nuclear power station.

The networking opportunities offered up to the cohort by attending – often *gratis* – BVAA's other events has also opened up their world and given them a whole new world of contacts and friends across the industry.

The culmination of FLP3's year was once again the key note address to the massed ranks of BVAA members, at the November 2018 Annual General Meetings. At the beginning of the year it's fair to say we had some quivering wrecks on the Presentation Skills development session. The contrast between February and November could not have been more pronounced however, and the cohort absolutely smashed the presentation with a truly consummate and professional presentation. You can view it on the BVAA YouTube channel.

We are indebted to all the members who contribute to make this programme the success it has become, but special mention must be made of BVAA's Development Consultant, Dr Martin Haigh MBE (Latitude7) who's tireless work was recognised this year with a BVAA Champion Award at our annual dinner dance.



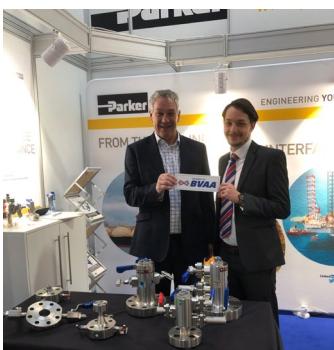
FLP Cohort 1 with past chairman David Millar



Dr Martin Haigh MBE receives his BVAA Champion award from Chairman Colin Findlay



Future Leaders Cohort 3 presenting at the BVAAAGM



'Stronger Together'

BVAA Members at Valve World



Keeping the World Flowing

Improving
efficiency &
minimising
downtime

It's in our DNA

For over 60 years our customers have relied on Rotork for innovative and reliable flow control solutions.

Rotork products and services help companies in the oil & gas, water & wastewater, power, marine, mining, chemical, pharmaceutical and food industries around the world.



→ Rotork Innovation

A Client Support Programme that helps you to:

- Protect your investment
- Increase plant availability
- Maximise productivity
- Reduce cost of ownership
- Protect the environment



IVS 2019 - Industrial Valve Summit



Visitors queuing up!

The Italian valve industry confirms its leading role in the European Oil & Gas market

Everything is set for the third edition of the Industrial Valve Summit, the international exhibition and conference on valve and flow control technologies that will be held on May 22nd – 23rd 2019 in Bergamo.

After the great success of the past editions, Industrial Valve Summit is back to show and share competences and industry knowledge around the world. The international exhibition has established itself as an instrument for promoting the excellence of the national industrial production as well as an important reference point for the local economic system in Lombardy, thanks to the growing number of participants.

IVS 2019 aims to increase its numbers with more visitors, exhibitors, events, conferences and networking opportunities. The past editions registered 3,500 presences in 2015 and 8,000 presences in 2017. At IVS 2019 we expect to welcome more than 250 exhibitors with 10,000 sqm exhibition area and 10,000 visitors from over 60 countries around the world.

The Italian Oil&Gas valve sector plays a leading role in Europe and is a real reference point at international level: the value of the Oil&Gas valve market reaches the 3.3 billion euro with 11,000 staff belonging to 300 companies. Italy heads the total European valve production with a market share of 31%, followed by Germany (26%), UK (13%) and France (11%).



IVS | MAY 22ND > 23RD 2019
BERGAMO - ITALY
INDUSTRIAL VALVE SUMMIT
3RD INTERNATIONAL EXHIBITION AND CONFERENCE
ON VALVE AND FLOW CONTROL TECHNOLOGIES

Industrial valves - Metallic check valves – draft issued for Public Comment prEN 16767



What is it?: This document specifies the general requirements for metallic check valves, which are forged, cast or fabricated in straight, angle or oblique pattern (see EN 736-2) with end connections flanged or wafer, butt welding, socket welding, or threaded.

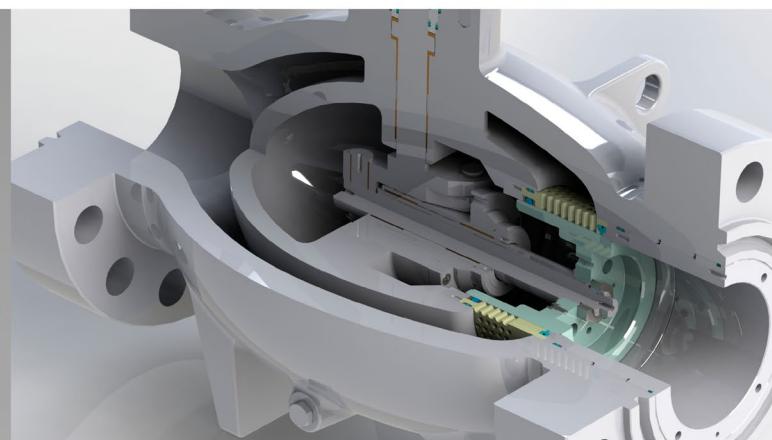
This document applies to metallic check valves used for all industrial applications.

Why is it important?: It is now CEN TC69 policy to have one product standard covering all materials. Therefore EN16767 is being revised to include copper alloy materials

The UK situation is that we still retain as current BS 5154. This standard covered copper alloy gate, globe and check valves. It is partly superseded by EN12288 copper alloy gate valves. We also have BS 7438 current which is for single disc spring loaded wafer type check valves in both steel and copper alloy.

Supersedes: If this revision to EN16767 is adopted BS 7438 and part of BS5154 will be superseded and withdrawn. Will potentially update the 2016 version of EN16767.

AXIAL FLOW VALVES ON/OFF AND CONTROL SERVICE



Unique design to quarter turn into axial movement
High capacity combined with large rangeability
Balanced plug to reduce the valve torque
Drive mechanism to provide smooth, accurate and fast operation with smaller actuator.
Excellent behavior for dirty fluids
Complete range of trim types for a good performance in high pressure drops application



Head office
Unit 12
Perrywood Business Park
Honeycroft Lane
Redhill
RH1 5JQ
Surrey
Tel: 00 44 (0) 1737 766 391

Scotland office
Westpoint House - SF15
Anhall Business Park
Prospect Road
Westhill
AB32 6FJ
Aberdeenshire
Tel: 00 44 (0) 1224 766 905

When is a forged valve a better option than cast?



Atwood & Morrill® Forged Gate Valve

Weir Valves & Controls USA Inc. is pleased to announce the introduction of the Atwood & Morrill® Forged Gate Valve

Not only is the newest addition to the Weir Flow Control product portfolio attracting customer interest, but they have already received orders.

The WVC USA team recently manufactured four forged valves that were ordered for installation at a new build combined cycle plant in the Southeast United States - scheduled to go online in 2019.

Forged vs Cast Valve Bodies

Customers of Combined Cycle Power Plants have indicated that Type 91 gate valves have been experiencing shorter than anticipated life cycles. These valve bodies are traditionally cast in A217 C12A material.

The solution is to switch to a forged body

Based on customer feedback and industry research, WVC USA put together a dedicated project team to develop a product designed to tackle this specific customer problem.

At temperatures above 1,000° F, a forged body is superior because;

- Imperfections inherent to all castings impose greater risk in C12A applications due to the elevated temperatures and increased thermal cycling
- Stringent code and customer requirements for C12A make it costly and cumbersome to process
- Forged Type 91 material will have a higher initial hardness level than C12A castings due to differences in how the materials are processed indicating a longer life cycle
- Forged valve bodies help minimize material defects and provide better quality and longer life valves, especially at elevated temperatures with thermal cycling conditions.

The team at WVC USA pride themselves in working alongside their customers to identify better solutions that help them achieve their goals.

Tel: +1 978 744 5690

Email: sales@weirvalveusa.com

Web: www.global.weir

WEIR

Tel: 01422 282000

Email: info@weirpowerindustrial.com

Web: www.global.weir

Malvern Company **SmartAct** connects to Android - Now that's **SmartActually !**

New Small Electric Actuator & App Launch

Fresh from receiving the Queens Award and National Family Business Championship in 2017, The Smart Actuator Company team continues to innovate and has been working hard to develop and launch our new Small (0-40 Nm) electric actuator.

The Small actuator launch will coincide with the release of our Android App.

Our new App. ensures an intelligent and easily operated actuator with advantages like no other within the current market.

Whilst our Actuators still offer a 75% energy saving we continue to innovate smart



Smart Price

£150 Trade List

Smart but Simple

Standard Features include

- **FAILSAFE**
- Automated 'WIGGLE'
- Auto Detect Torque
- Rugged GRP Housing
- IP 67
- Bluetooth Control
- Manual Override
- 2 Year Warranty
- Set-up, configuration & Optional features activation via Android App. Including Modulation, Speed Control and Multi-Turn.

solutions. The Smart Actuator Company has developed an easy and efficient platform that improves communication with SmartAct Actuators for both our existing and new customers.

An online portal system that can be operated with any Android device allows customers to access their purchased products, monitor the configuration and add or remove features right then and there.

It even has a torque detection function which auto detects the torque requirement of the valve for initial set-up and configuration.

**Now that really is
Smart!!**

Full list of features available at:
www.smartact.co.uk
Email :
sales@smartact.co.uk
Tel:
01684 565709

50 years of the original super duplex stainless steel, Ferralium 255



40 sizes of each alloy are available from stock

Long before 32750 (F53) and 32760 (F55) existed there was Ferralium 255. Developed by Langley Alloys in the mid-1960s, it was launched in 1969. Since then, it has been widely used in valves for the most demanding applications, where resistance to aggressive mediums such as seawater, selected chemicals and acids can only be bettered by considerably more expensive alloys.

The virtues of duplex and super duplex stainless steels are now well known, having been in commercial existence since the 1960s. Whilst they were seen as relatively exotic alloys then, this family of alloys has achieved widespread acceptance, combining the most favourable properties of both austenitic and ferritic stainless steels. With strengths 2-3x greater than the 3xx stainless steels, and far superior corrosion resistance, they quickly became the go-to alloys for emerging applications in Oil & Gas and chemical processing through the 1960s and 1970s.

Langley Alloys was created in 1938, a venture between High Duty Alloys and Hawker Siddeley. Originally developing copper-based alloys for wartime aerospace and marine end uses, our foundry produced valves and components in a wider range of alloys. This includes the development of the forerunner of today's CD4MCuN cast grade stainless steels, still widely used today for valve bodies and bonnets.

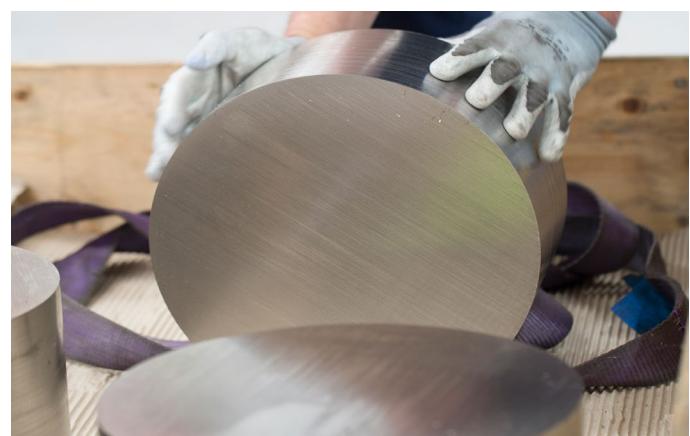
That Ferralium 255 is the closest super duplex alloy in bar and plate form to the cast grade CD4MCuN should come as no surprise. Originally, copper was seen as an unwelcome addition to steels, associated with 'red shortness' where ingots would break apart during hot working.

However, with Langley Alloys improvements to metallurgical understanding and process control, the benefit of copper additions became appreciated. It is known to enhance corrosion resistance in chlorine containing environments i.e. seawater, as well as sulphuric acid. Ferralium 255 has the highest copper addition of any super duplex stainless steel, resulting in its superior corrosion performance.

Patented in 1967 and marketed as Ferralium 255 in 1969, it has been further refined to improve mechanical properties – it is the only super duplex to achieve 85ksi yield strength.

The improved strength and corrosion resistance means that it is specified by the likes of Stamicarbon and Toyo Engineering for valves in chemical process plants, along with the leading Oil & Gas major customers.

Langley Alloys can proudly claim the title of '*The Home of Super Duplex*', as the inventor of the original super duplex stainless steel and leading distributor. We now stock the widest range of Ferralium 255, 32750 (F53), 32760 (F55) and 2205 (F51/F60) in up to 40 different bar diameters. Plus, as Sandvik's distribution partner, we can offer unrivalled depth of stock, to meet your project requirements.



Diameters from 5/8" up to 16" available ex-stock

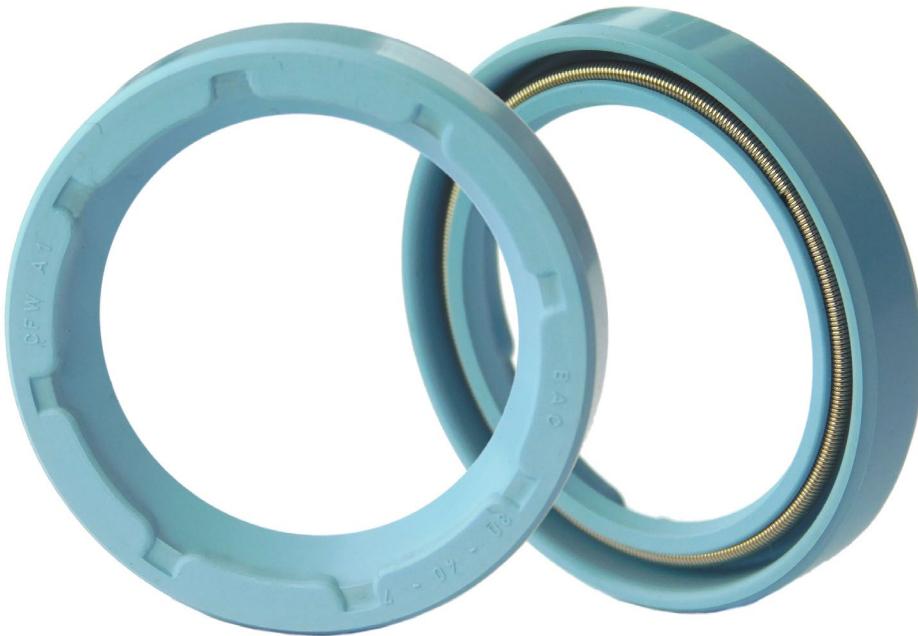


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Freudenberg Simmerring now available in food-grade materials



Freudenberg Sealing Technologies has now further developed Simmerrings, made of food grade materials, for use in the process industry.

Freudenberg Sealing Technologies, a leading global specialist in sealing products and their application, has made its proven and successful Simmerring seals available in two new materials to suit food industry applications. Availability for the new products is via Dichtomatik UK Ltd, the exclusive provider for Freudenberg's food and beverage related products in the UK.

The Freudenberg Simmerring has been proving itself as a successful sealing product for the past 85 years. Designed for the reliable sealing of rotating shafts, Simmerring can today be found in millions of applications and machines across a myriad of different sectors. Importantly, the product is flexible, highly loadable and very dependable. Based on this portfolio of attributes, Freudenberg Sealing Technologies has now further developed Simmerring for use in the process industry, by making it available in food-grade materials.

Conventional PTFE shaft seal rings soon reach their limits at high rotational speeds and pressures, which typically leads to leaks and other seal failure modes.

In addition, to date it has not been possible to use Simmerring in the food industry as its PTFE materials have not been approved for food-related applications. With this challenge in mind, experts at Freudenberg Sealing Technologies set about developing two new Simmerring materials especially to meet the requirements of process industries such as food and beverage, and pharmaceuticals.

Simmerring products in the B2PT design are now produced from a newly developed material, Quantum® PTFE F18245, and a housing manufactured from 1.4571 (V4a) stainless steel. Here, the PTFE deployed has been created specifically for direct food contact. Approvals are anticipated shortly under FDA 21 CFR 177.1550 und EC 10/2011. The B2PT design, which is suitable for applications up to 10 bar, can also be adapted to suit specific customer requirements.

A further innovation from Freudenberg Sealing Technologies is the Hygienic BlueSeal, which is the first dead-space-free version of the Simmerring. Ideal for food and beverage industry applications, this hygienic shaft seal ring has a forward-mounted lip featuring geometry that allows no hard-to-clean areas, thus preventing any bacteria build-up and subsequent process contamination. As a point of note, the Hygienic BlueSeal can be used in low-friction and low-pressure (<1 bar) applications. The latter is made possible thanks to targeted adjustments in geometry. Hygienic BlueSeal also makes use of the newly announced Quantum® PTFE F18245 material.

The second new material development for Simmerring is 75 Fluoroprene® XP 45, which aids secure attachment to metal. This highly fluorinated material already has the required approvals and certificates under EC 1935/2004, EC 2023/2006 and FDA 21 CFR 177.2600.

Any seals manufactured from Fluoroprene® XP stand out for their excellent, broad resistance. The material combines the outstanding performance characteristics of FKM and VMQ in non-polar media (greases, oils and hydrocarbons), with the qualities of EPDM materials in polar media (water, acids and lye). Thanks to the complete encasement of the Simmerring with 75 Fluoroprene® XP 45, complemented by a stainless steel spring, the product is ideal for use in a wide range of food and beverage applications.



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James Walker invests in global gasket strategy



A comprehensive range of soft-cut, metallic and semi-metallic products plus rapid turnaround of special items backed-up by local service and technical support.

Following hot on the heels of successful introductions of new CNAF, PTFE materials and a range of high-specification isolation gaskets, James Walker is set to further strengthen its gasket service offering with investment in new equipment and personnel.

The investment in additional state-of-the-art equipment and capacity at hubs in Australia, Belgium, Singapore and the UK puts the company in prime position to meet customer demand in addition to extending its capability to manufacture non-standard items with a fast turnaround.

James Walker's gasket strategy takes advantage of the business' existing global footprint, placing a comprehensive range of soft-cut, metallic and semi-metallic gaskets and jointing materials alongside the company's established ranges of elastomeric seals and compression packings to provide an unrivalled combination of sealing options.

Product Director Andy Crowther comments on the latest investment; "As well as investing in additional strategically located capacity, we have also brought-in significant expertise to our business in terms of technical and sales support for our gasket products through the recruitment of new key personnel with in-depth operational, commercial & technical gasket industry backgrounds, to provide world class support to our customers."

This latest activity continues to strengthen our global service footprint and grow our gasket capacity to match customer demands, making James Walker more responsive and easier to do business with."

James Walker®

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Sentinel X is James Walker's general purpose BS7531 Grade Y sheet jointing.

BS EN 12516-1:2014 + A1:2018 Industrial valves - Shell design strength - Part 1: Tabulation method for steel valve shells – amended standard issued



What is it?:

This European Standard specifies the tabulation method for determining the wall thickness of valve bodies, bonnets and covers with essentially circular cross-section made in forged, cast or fabricated steel.

Why is it important?:

The amendment has been issued to correct errors in the Pressure Temperature rating tables found in the 2014 version immediately after publication. The opportunity has also been taken to update the PED references to 2014/68/EU and the normative references:

- Modification to the European foreword
In the 5th and 6th paragraphs, replace "EU Directive 97/23/EC" with "EU Directive 2014/68/EU".
- Modifications to Clause 2, Normative references
In the reference to EN 19:2002, replace "EN 19:2002" with "EN 19:2016".
In the reference to EN 736-1, replace "EN 736-1" with "EN 736-1:1995".
In the reference to EN 736-2, replace "EN 736-2" with "EN 736-2:2016".
In the reference to EN 736-3, replace "EN 736-3" with "EN 736-3:2008".
- Modification to 11.4, Intermediate rating valves
In the opening paragraph, replace "EN 19:2002" with "EN 19:2016".
Modifications to Tables 10, 11, 19 and 28
- Replace Tables 10, 11, 19 and 28 with the following ones respectively:

Supersedes: This is an amended standard and supersedes BS EN 12516-1:2014

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How to choose control valves



Metso's Control Valve Offering

Control valve requirements often differ depending on the process area, application and end user specifications.

Process conditions and the range of parameters also vary widely, including pressure, temperature, controllability, cavitation risk, environmental impact, noise and more. Plus, priorities may differ.

An end user may want to know more about a valve's performance, controllability and total life-cycle cost, whereas an EPC contractor may be more concerned about the CAPEX-related costs and delivery times. How do you know where to start – and where to turn for help with quality information you can rely on?

The ideal way is to call in a valve expert to assist your local engineering team, someone to perform sizing calculations, specify needs and identify anomalies to achieve the desired performance and controllability.

Simply repeating what has been done before at similar projects is not a good option. Subtle changes in processes can have serious consequences on equipment such as valves. Additionally, it's important to stay up-to-date on local regulations and efficiency requirements – and choose valves with the ability to meet them.

The wide world of valves

There is no such thing as an optimum valve to handle all applications. Each type of valve plays a specific role. So it's important to know which one to choose for the task at hand.

Globe valves

Globe valves are a good choice for general and high differential pressure applications. One reason is because of their inherent resistance to cavitation. Changing the valve's trim is easy, which is especially helpful if process conditions change quickly or plant capacity increases. These valves are ideal for noise abatement with clean flow mediums and are also widely used for microflow service.

Segment valves

Segment valves are an economical solution for reaching high capacity with a smaller nominal valve size. This means smaller valves can be used in the same applications and the valves can be mounted in practically any orientation. Segment valves are also excellent options for fibrous and unclean flow mediums.

Eccentric rotary plug valves

Eccentric rotary plug valves are a compact and reliable solution for general and even more demanding applications. These valves are widely used in refineries and petrochemical plants, as they can also handle dirty fluids with particles.

Butterfly valves

Butterfly valves are lightweight, economical solutions and are especially attractive valve solutions in large sizes. They typically offer high flow capacity and good emissions performance.

Ball valves

Ball valves are rugged constructions that can be considered problem solvers when it comes to specific control applications. Yet they are also heavy and more expensive, so are not normally the first choice for control use. However, for high-pressure, high-capacity applications, they can still be the best in the long run from a technical and cost perspective.

Moving into more severe service

Control issues such as cavitation, flashing and noise are becoming more commonplace as plants are run at higher pressures and temperatures. If these are not taken seriously, they can quickly cause problems with a valve and the process itself.

It's important not to choose your valve based on a single normal operational point, but rather to take all possible process conditions into account. Sizing and selection should be based on minimum, normal and maximum process conditions and flow values.

Get the very best from your valves

At Metso, we believe every detail matters. Therefore, we offer a comprehensive product portfolio of valves, both linear and rotary, and are ready to support your valve selection with experience, knowledge and the hands-on know-how of decades of deliveries, installation and service.

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Written by Vesa Lempinen, Director, Control Valve Product Center at Metso Flow Control Inc.



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BS EN 12516-4:2014 + A1:2018 Industrial valves - Shell design strength - Part 4: Calculation method for valve shells manufactured in metallic materials other than steel - amended standard issued

What is it?:

This European Standard specifies the calculation method for valve shells manufactured in metallic materials other than steel. The loadings to be accounted for are in accordance with EN 12516-2.

Design methods are in accordance with EN 12516-2, design by formulae according to the relevant clauses.

Why is it important?:

The amendment has been issued to correct errors found in the 2014 version immediately after publication. The opportunity has also been taken to update the PED references to 2014/68/EU and the normative references:

- Modification to the European foreword
In the 5th and 6th paragraphs, replace "EU Directive 97/23/EC" with "EU Directive 2014/68/EU".
- Modifications to Clause 2, Normative references
In the reference to EN 1092-2, replace "EN 1092-2" with "EN 1092-2:1997".
In the reference to EN 1092-3, replace "EN 1092-3" with "EN 1092-3:2003".
In the reference to EN 1092-4, replace "EN 1092-4" with "EN 1092-4:2002".
In the reference to EN 1759-3, replace "EN 1759-3" with "EN 1759-3:2003".
In the reference to ISO 7005-3, replace "ISO 7005-3" with "ISO 7005-3:1988".
- Modification to 5.2.3, Pressure/temperature ratings for cast iron
Replace 5.2.3.2 with amended text for low temperature (lower than – 10 °C) service:
- Modification to 5.5.2, Materials other than aluminium
Replace Table 17 to correct use of Rp0,2/t instead of Rm/20 in some copper alloy design stresses by the following table:

Supersedes: This is an amended standard and supersedes BS EN 12516-4:2014



Is P05 the alternative solution you need?



P05 DN100 PN16 stainless steel solenoid valve



P05 DN50 PN16 stainless steel solenoid valve with ATEX Exd pilot

When considering the choice of automated isolation valves, flow rates, pressures, media compatibility and other factors are important but the crucial element is the method of control to allow the automation intent and what happens if something fails. There is an increasing trend for fail-closed valves being specified which is easily achieved with pneumatic spring return actuators but when electrical actuation is required this can be more problematic.

Small bore ball valves with electric spring return actuators are readily available but as the valve size increases, the available actuator choices dwindle and the price escalates rapidly. There are many instances where electrical control is required and the alternative would often be to use a conventional solenoid valve that has the benefit of closing as soon as the energising voltage is removed.

These valves are more restrictive to flow when compared to ball valves size for size, due to the globe valve design that requires the flow direction to change sequentially through 90°, 180° and another 90° before reaching the outlet of the valve. Solenoid valves are available in larger bore sizes but due to the flow restriction, may require increases to pipework diameter to achieve the design flow and the user has to bear the increased cost for what is effectively an oversized valve.

Recognising this conundrum and working with our supply partners, Measure Monitor Control took a proven axial control valve from Z-Tide and combined it with a high performance Nadi pilot solenoid to produce the P05 series of pilot operated solenoid valves. The axial flow design offers a significant increase of flow compared to globe designs with the benefit that as the pilot solenoid valve closes when power is removed, the axial valve also closes and is held closed by the inlet pressure.

By using the Nadi solenoid valve, we can offer a combined solenoid valve assembly that is rated to 16bar in sizes from 2" to 12" with options to increase the pressure capability if needed for higher rated flanged bodies. The Nadi solenoid valves also offer hazardous area compliance with certification choices of ATEX, IECEx or EAC CU TR if required.

The axial valve is most often supplied in bronze or stainless steel bodies and the stainless steel axial valve has the option for WRAS approved seals where the valve needs to be used on potable water. For this duty, the Nadi pilot solenoid can be provided with FDA approved EPDM elastomers.

Unique to this valve is this flexibility of specification using the Nadi pilot solenoids. By fitting a manual reset solenoid valve instead of the standard unit, we can prevent the valve opening without direct user input where safety considerations require it.

The P05 is a true alternative to spring return motorised ball valves and can offer additional features such as manual reset to simplify automation and safety requirements.



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Webtec Recognises Young Talented Engineer with Arkwright Engineering Scholarship

Webtec, the St Ives, Cambridgeshire, based hydraulic measurement and control company has announced George Crooks as this year's winner of the Roy Cuthbert Scholarship.

This award, is part of the wider UK Arkwright Engineering Scholarship Scheme, and was named after Webtec's founder, a passionate engineer and entrepreneur who passed away in 2013.

The Arkwright Engineering Scholarships act as a beacon to the most talented STEM (Science, Technology, Engineering and Maths) students in the UK schools and help to ensure that high-potential young people stay engaged in the engineering careers pipeline, in the critical 16 to 18 age range.

The Scholarships are supported by more than 200 different sponsoring organisations including commercial and industrial companies, Universities, Government and trade organisations. Some 393 students achieved a coveted Arkwright Engineering Scholarship award as part of a drive to inspire future leaders in engineering.



From L to R : George Crooks receiving the Roy Cuthbert Scholarship award from Webtec's James Poulten

Those honoured were handpicked from 1,600 hopefuls who applied for the scholarship in 2018 following a rigorous selection process, which assesses their academic, practical and leadership skills in engineering disciplines.

Webtec recognises the importance of encouraging young talent in engineering and in addition to the Arkwright Scholarships the company also actively supports other programmes including the Secondary Engineer® Fluid Power Challenge in both the UK and the US and the Engineering Education Scheme (EES).

"The Arkwright Engineering Scholarship Scheme is a fantastic way to nurture and celebrate the engineering talent that we have in this country and we are proud to support and encourage young people into our industry", commented Webtec's Managing Director, Martin Cuthbert. *"We would like to congratulate George on being awarded the Roy Cuthbert Scholarship and look forward to welcoming him to Webtec"*, he added.



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SAFi have launched their new website



The SAFi UK team – pictured outside their sales and warehouse facility in Poole, Dorset.

SAFi are a manufacturer of Thermoplastic Valves – with our global coverage of 40 countries, using our network of subsidiaries and distributors, we have been working for several months on this new tool, which we have built to directly serve our clients.



Advances in thermoplastic technology may mean that a plastic valve is a better solution than the traditionally considered metal, lined metal & alloy option.

Simple, accessible, intuitive and up to the minute; the new SAFi website is responsive and meets both desktop and mobile (tablet and smartphone) demands.

You can now find practical information, upcoming and current events and for the first time – a download area for our technical data and online tools to assist with sizing and selecting the best valve and actuator options.

Through our technical data area, you are able to access the dimensions, valve references, product sheets, 2D and 3D models and the ability to request all these options on any bespoke configuration.

SAFi's online catalogue is not limited to our standard products, of which there are over 8000, but we are also unique in that we partner with many suppliers to develop specific and tailor-made products – Every day, our technical team create a new solution for one of our clients, adaption of an existing product or a valve completely developed for them, designed specifically for their needs.

The website launch coincides with the appointment of the new UK General Manager, Matt King who has joined SAFi UK from the water treatment industry.

Matt started his career in the Armed Forces, serving in the Royal Corps of Signals before moving to Clearwater Technology (UK) in 2009 where he became an adept consultant dealing with bacteria control in healthcare and commercial environments.

The varied experience gained allowed Matt to become involved with the training and mentoring of new staff within the water treatment industry before the opportunity to bring his technical, industry and sales process knowledge to Goodwater Ltd (UK) in 2015, covering the United Kingdom in a National Sales and Business Development role.

Matt has joined SAFi UK with a target of not only developing the UK market but to also look after many export markets including the United States, whilst also improving the industry representation of SAFi in the UK.



Matt King – SAFi UK's new General Manager

A screenshot of the SAFi UK website. The header includes the SAFi logo and links for EN, FR, The group, Our markets, Services and documents, News and exhibitions, and Network and contact. The main banner features an industrial scene with the text "PLASTIC VALVES FOR DEMANDING INDUSTRIES". Below the banner are two smaller images: one showing various valve components and another showing two people working on a valve assembly. Text overlays on these images read "A wide range of products for every industry" and "Let's create together your tailor-made solution".

SAFi UK's brand new website launch!



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Complete solution from one source

Bridging the gap between the piping and the instrumentation

Pressure gauges can be adapted to almost any process conditions with the help of valves and fittings, especially in critical **application**. The question, which follows next, is "Should I design and install this measuring assembly myself or is it better to resort to a so-called 'hook-up' – a complete, made-to-measure solution from a qualified supplier?" The latter **option** is generally preferable for both safety and economic reasons.

Pressure gauges are rarely integrated into the process – in other words mounted into a pipe – directly. Process reliability, safe pressure measurements, optimised maintenance and a desire to extend the service life of the measuring instruments are the most common reasons for combining pressure transmitters and gauges with valves or protective devices. Each of these measuring assemblies is adapted to the specific process conditions and is consequently an individual solution.

This individuality frequently misleads users into believing that they should design and install the necessary measuring points themselves in the form of a modular system. However, this is complex and time-consuming, and entails considerable risks.

The same manufacturers that make the valves and fittings do not usually manufacture measuring instruments. The components concerned may even have to be procured from more than two suppliers. That further complicates the logistics, including supplier management.



Integrated valve & measuring instrument

The more parts that are needed, the more likely it is that compatibility problems will occur.

The pressure gauge shown left is by no means a typical: the centre distance between its connections did not match the dimensions of its counterpart on the valve manifold. The operator's personnel were therefore forced to establish a connection using two pipe sections and four adapters. Extra parts inevitably result in extra time and costs. The process risk simultaneously increases because the number of seals is doubled.

Compatibility issues also arise if the connection tolerances used by different suppliers are not exactly identical. Assembly problems and potential leaks are the outcome. To avoid this, qualifications and specifications must be defined for each supplier. Once again, the additional effort and expense should not be underestimated. After all, durable compliance with the stipulations must be ensured.

If the in-house option is chosen for measuring points with valves and fittings, purchasing perfectly matched components is only the first step. Installing them subsequently likewise ties up supplementary resources – from training for employees to the provision of a suitable workstation and tools. A system of quality controls to verify the functionality and reliability of the assembly is essential here. The tightness of the assembly as a whole is a key factor. If this cannot be guaranteed, process medium could escape via the connection between the instrumentation and the valves or fittings, causing substantial harm to people and the environment if critical or hazardous substances are involved.



Typical misaligned valve & measuring instrument

Against this background, manufacturers of instrumentation valves and accessories like WIKA are increasingly also offering their customers hook-ups – complete solutions that bridge the gap between the piping and the instrumentation.

Users acquire a fully assembled; leak tested measuring arrangement conforming to their specifications and made up of qualified components, which simply have to be installed at the main process connection.

The most straightforward kind of customised solution in terms of the technical requirements is a combination of a measuring instrument and a suitable mounting aid.

Instrument mounting brackets for stable mounting positions (typically pipe or wall or mounting), swivel adapters to enable a frontal view of the display and thread adapters are three classic examples of such components. However, the term hook-up usually refers to an assembly of pressure gauges with a protective and / or shut-off device.

A combination with protective devices prevents damage to the measuring instruments, for instance due to temporary overpressure, pressure spikes, dynamic load cycles or high temperatures in the piping:

- *Overpressure protectors* protect pressure gauges against pressures exceeding their maximum rating. If the process pressure in the pipe exceeds the set threshold, the protector protects the mounted pressure gauge by closing the pressure channel automatically.

- *Snubbers* reduce the negative effects of pulsations and pressure surges to an acceptable level. External snubbers have the big advantage that the volume flow of the medium can be varied. The cross-section of the pressure channel can be reduced by means of an adjustment screw depending on the pressure surge. This dampens the surge and prevents an unnecessarily high load on the pressure element.

- (*Compact*) syphons are also suitable for reducing pressure surges, especially in conjunction with hot media such as steam. The principal task of these devices is to protect the instrument from excessive heating. They are recommended, for example, for filled pressure gauges at process temperatures of about 100°C or more. Syphons extend the “*cooling element*” and achieve an effective temperature reduction at the measuring instrument by convection.

The combination of a measuring instrument and a shut-off device makes sense whenever the measuring unit must be separated from the process for maintenance, cleaning or calibration. The devices, which are used for this purpose, are mainly needle valves, valve manifolds and monoflanges. Stopcocks are also used for applications with low tightness requirements.

Some shut-off devices are shipped with additional functions for venting the process safely or calibrating the measuring instrument on site, for example needle valves in a block-and-bleed configuration.

Valve manifolds for differential pressure gauges, e.g. for monitoring filters and pumps, allow separate interlocking of the process line as well as pressure compensation between the two input channels – something that is often necessary in order to set the zero point.

There are many processes where the pressure gauges need both shut-off and protective devices and mounting aids. Multiple devices can be combined without any problems and, provided this is done expertly, with no influence on the desired measuring accuracy.



Pressure gauge with an overpressure protector and a monoflange at the process.

Conclusion:

A wide range of valves, fittings and mounting accessories are available, so that pressure gauges can be adapted to almost any process conditions. These assemblies often enable permanently reliable processes as well as extremely long maintenance intervals for the instrumentation. These quality and economic benefits are even more significant if the manufacturer supplies a complete solution: hook-ups save the operator considerable time and effort for designing and installing the measuring points themselves in the form of a modular system. They also eliminate the potential risks, which are inevitable with in-house solutions.

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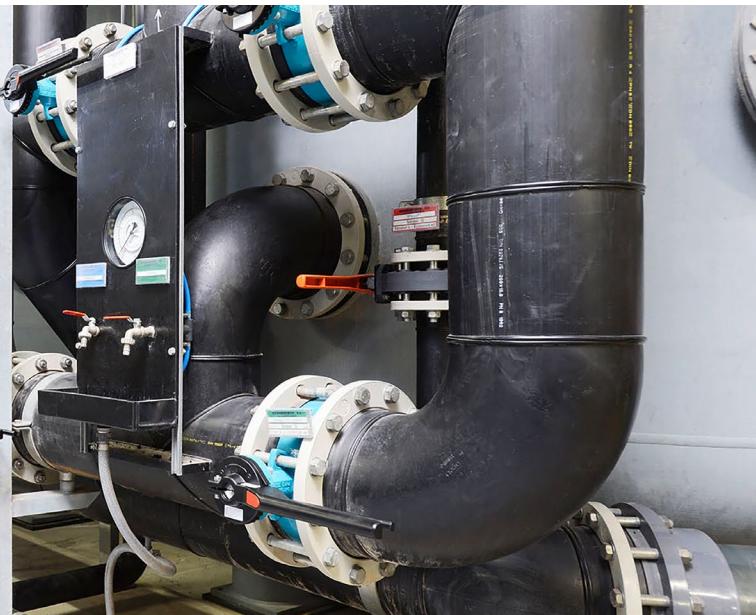
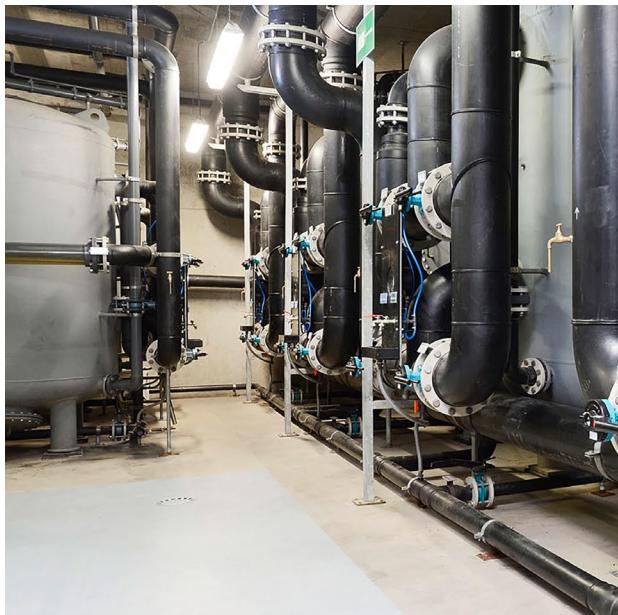
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WIKA

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GEMÜ butterfly valves in swimming pool systems

Application in the water treatment plant of an outdoor swimming pool



'Water treatment plays an important role in swimming pool systems in keeping the water clean – so that you can enjoy a clean bathing experience. Important process steps are required to maintain the water quality both before and also during use.'

There are two key steps here, the first step is preparing the raw water for use in the swimming pool. The second step is continuously pumping the water in the swimming pool through a circuit and thereby cleaning it to maintain its quality and keep it free of contaminants or germs that could potentially cause illnesses. Any water that has been lost, for example due to evaporation in open air pools, is also replaced during this process.

The water in the swimming pool must comply with a wide range of quality criteria. Alongside microbiological requirements (limit values to be met, e.g. for bacterial cultures such as *E. coli* or *Legionella pneumophila*), these also include chemical and physical requirements (e.g. pH value, nitrate concentration and concentration of free and bound chlorine). DIN 19643, known as the "swimming pool standard," provides orientation with regard to the guideline values to be met and documentation of the prevalent water quality. Among other things, it includes standards pertaining to the pH value, which must be between 6.5 and 7.2, as well as the concentration of free and combined chlorine.

Water treatment

But what exactly happens when the water leaves the swimming pool via the overflow channel and what processes are required to prepare the water for re-use?

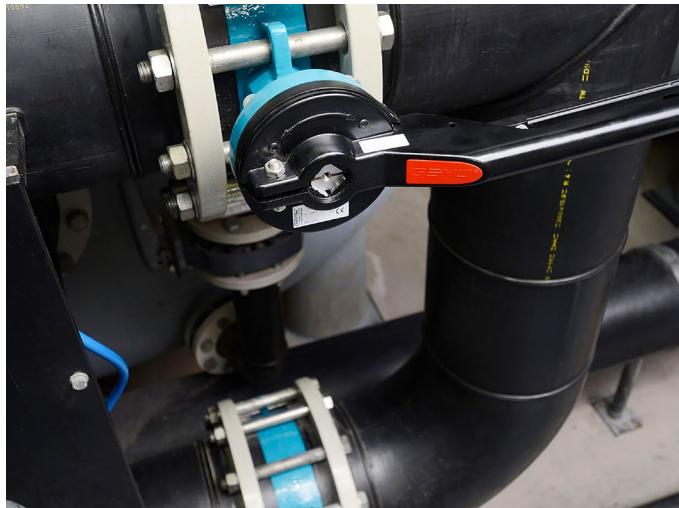


First of all, the raw water flows into a raw water reservoir. From here, it is pumped back out again using a circulating pump. At the same time, a flocculant containing specific aluminium salts is added. This causes the dirt particles in the water to clump together, which has a positive impact on sedimentation and filtration. This flocculation also helps control phosphate-based components that would otherwise promote excessive growth of algae.

Once the raw water is treated in this way it is then filtered. The filter removes a wide range of suspended matter (solids and minute organisms) from the water. Alongside the hair, saliva and skin of those using the pool, these contaminants also include leaves, blades of grass, soil, insects or similar, especially in outdoor pools.

Filtration with a multi-layered system is a standard procedure used for this, whereby gravel or sand are typically used as the filter material. To ensure optimum cleaning of the water flowing through the filter, as well as to prevent any contamination, these multi-layer filters are cleaned regularly. This is the only way to prevent bacteria from settling on the surface of the filter material that could then re-contaminate the water that has already been pre-purified. Besides the multi-layer filters, ultra-filtration is another option that is occasionally encountered at swimming facilities.

The water pre-purified in this way is classed as filtrate and disinfected in the subsequent process step. This is performed through chlorination, e.g. using chlorine gas. Clean and reliable results can only be achieved through a combination of physical methods (e.g. filters) and chemical methods (e.g. chlorination) for cleaning and preparing the water for use in the swimming pool.



The water quality in a swimming pool must be permanently monitored. This typically involves an automated process for taking samples of pool water at regular intervals, so that the water quality can then be adjusted as necessary following analysis. This can include increasing or reducing the chlorine content of the water. If an excessively high concentration of combined chlorine is detected, the water is then passed through an activated carbon filter, for example. This additional process step allows combined chlorine to be removed.

Once the raw water has been completely cleaned and treated, it is referred to as pure water, which can then be fed back promptly into the swimming pool.

GEMÜ products

The GEMÜ D487 Victoria soft seated manually operated butterfly valves available in nominal sizes DN 25 – 1600, perform various shut-off functions in the supply and discharge lines of the water treatment plant.



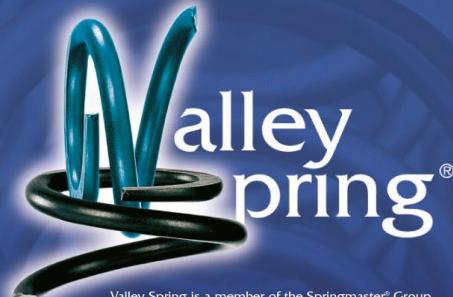
GEMÜ D487 Victoria Butterfly Valve

Key Features

- Advanced seal design - even for larger diameters
- Modular construction
- Extensive applications using a variety of materials
- Simple installation
- Drinking water approval DVGW

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 **BVAA**

Did you Know?

The BVAA will be attending the Industrial Valve Summit on the 22nd and 23rd 2019. Come see us on stand **CG10**

MAY 22ND > 23RD 2019 - BERGAMO - ITALY


INDUSTRIAL VALVE SUMMIT

Corrosion Resistant Materials see increased growth in Overseas Sales



New member Corrosion Resistant Materials Ltd has seen increased growth in Global Sales over the past 3 months.

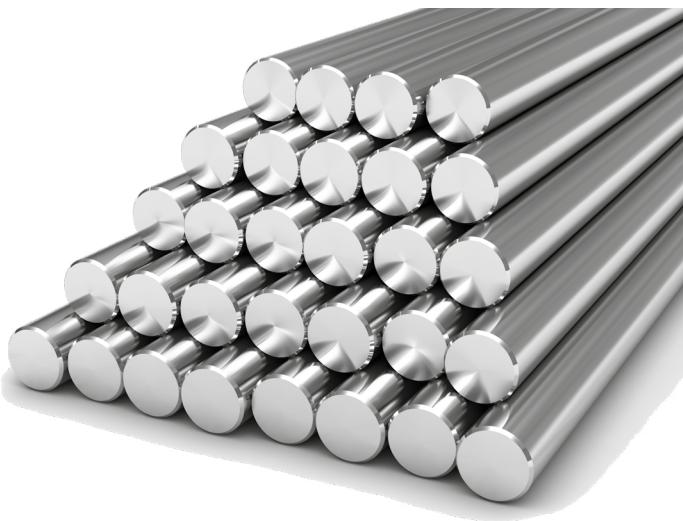
The Rotherham based Steel Stockholder of Nickel, Stainless, Duplex, Titanium and Low Alloy Steels, which has always enjoyed a high level of Sales within Europe, have in recent weeks exported to North America, India, Singapore and the Middle East. Sales in these key areas are expected to grow further throughout 2019 as more and more companies turn to the specialist materials supplier.

Commercial Manager, Adam Bradley states: "It is fantastic to see rapid sales growth in these key areas. Our overseas partners are confident that by coming to us they will receive the material they want, to the specification they require and most importantly when they want it."

"We pride ourselves on being the supplier of choice for many across the globe within the Automotive, Marine, Oil and Gas and Petrochemical Sectors. We currently stock and supply over 60 grades of material which allows our customers to package many grades of materials together. This allows them to save on time and transportation costs."

"Across the Media we hear lots of doom and gloom with regards Exporting however I urge everyone to embrace it. As we come out of Europe the opportunities globally can only increase for UK companies."

The company currently supply Steel bar, sheet, plate, wire, pipes, flanges and fittings to over 25 countries worldwide and see enquiries daily from over 40. They work with several key logistics and packaging partners to make sure that orders can quickly and effectively be delivered to customers anywhere in the world.



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Webtec Launches Invaluable Industry Guide

'An Introduction to Practical Hydraulic System Maintenance' by Steve Skinner and Martin Cuthbert – available now from Amazon

Webtec, a global specialist manufacturer of hydraulic measurement and control products is launching '*An Introduction to Practical Hydraulic System Maintenance*', a new guide for all fluid power technicians.

Co-authored by industry experts Steve Skinner and Webtec's Managing Director Martin Cuthbert, this invaluable tool is aimed to help educate technicians and engineers new to hydraulic fluid power maintenance and hydraulic engineers embarking on a career in this industry.

'The book costing £34.99 is available now from Amazon. Featuring over 240 pages and over 200 colour illustrations this introductory guide is an excellent starting place to learn about hydraulics.'

Written in an easy-to-read style with clear concise text, it also suggests where readers can go to learn more about a particular subject.

'An Introduction to Practical Hydraulic System Maintenance' has been reviewed and endorsed by several organisations including the British Fluid Power Association, Institution of Mechanical Engineers, National Fluid Power Centre, British Valve and Actuator Association and the Construction Equipment Association.

All profits made from the book will be donated to support STEM (science, technology, engineering and mathematics) programmes such as the '*Fluid Power Challenge*' run by the charity Primary Engineer in the UK and set up to help encourage the next generation of engineers in schools.

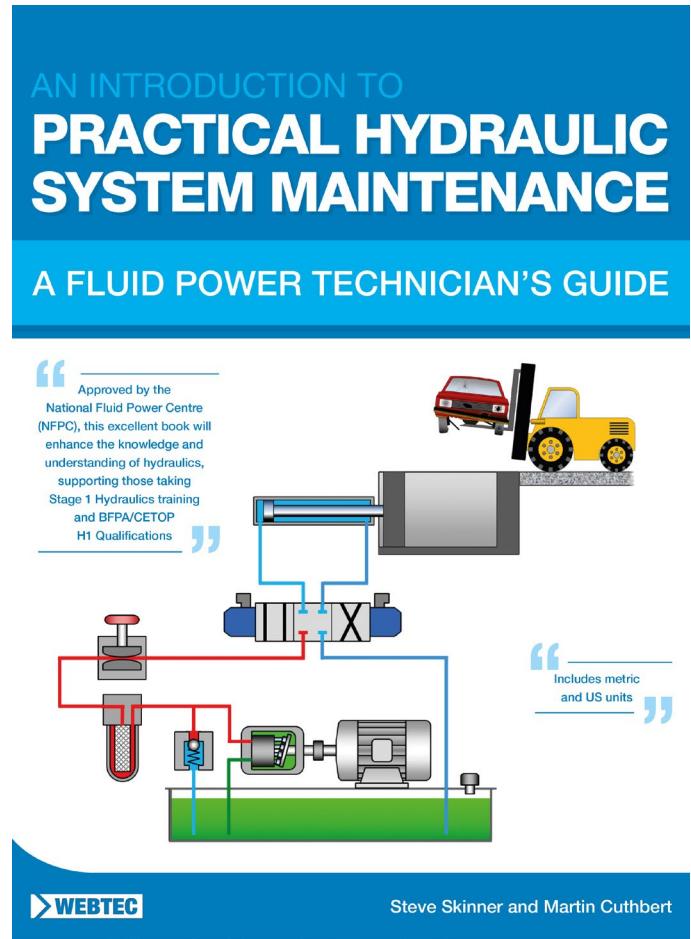
Steve Skinner, one of the two co-authors commented, "*Despite hydraulic fluid power being a technology with more than 200 years of history, it remains a highly effective means of transmitting power, well-suited to interface with modern electronic controls.*

Like any technology however, it needs to be well understood by engineers and technicians responsible for its efficient operation. Hopefully this book will encourage maintenance personnel to acquire further training and experience and become fully competent in this important technology with its vast range of applications."

Explaining the importance of the guide and why Webtec chose to sponsor the project, Martin Cuthbert, Webtec's Managing Director the other author added, "*We recognised that many highly experienced hydraulic engineers are retiring, while few people are studying hydraulics today as a profession and yet the need for qualified hydraulic technicians continues to grow. This book is a small step towards addressing this skills shortage".*

"We are excited to launch this guide and encouraged by the support and recognition that the book has received from the many trade organisations and educational establishments globally", he continued.

In addition to the guide, readers will also receive free access to a host of complimentary fault-finding tools, calculation apps and white papers by Webtec.



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Albion Introduces Range of Thermal Balancing Valves for Building Services



Thermal balancing valve for building services

Albion Valves UK Ltd, one of the UK's leading valve suppliers is introducing a new range of Thermal Balancing Valves (TBV) to their building services product portfolio, to help safeguard against water borne diseases such as Legionnaires, which can be problematic in public buildings.

According to Public Health England there are hundreds of cases of Legionnaires reported every year in the UK with many more cases going undiagnosed and unreported. Symptoms are flu like to most of the population but can be more severe in vulnerable groups such as the very young or elderly.

Legionnaires disease can occur when water is allowed to cool in pipework where the bacteria can flourish at temperatures of between 20°C and 45°C, especially where dirt, scale or biofilms are present.

Thermal Balancing Valves (TBVs) are designed for use in hot water systems to accelerate hot water delivery to the tap, reduce water wastage and conserve energy. However, TBVs are also increasingly being specified in public building installations to help protect against the growth of Legionella bacteria.

The TBV provides thermal balance in hot water systems to keep a constant water temperature generally above 50°C. This provides thermal disinfection against Legionnaires while limiting the flow in pipes to a minimum required level.

Improving operational performance, whilst simplifying installation and commissioning compared to traditional approaches makes this an obvious choice for specifiers to guarantee peace of mind. Les Littlewood, Sales Director at Albion Valves UK Ltd commented:

"Showers, baths, pools and hot tubs are the main breeding grounds for the bacteria, which can cause severe illness."

"So it is imperative that TBVs are used in hot water systems to ensure the temperature is never allowed to dip to ambient, taking this one simple measure can prevent almost all of the risk."

Hospitals, care homes and other health care providers are particularly vulnerable to outbreaks and should ensure their hot water systems are appropriately safeguarded against the risk."



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Parker provides design and in-use enhancements to its H Series ISO valve portfolio



H Universal Manifold

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 features and capabilities to its H Series ISO valve platform (with flow ranging from Qn 540 to 5900 NI/mn).

Designed with a new universal manifold, the H Series ISO valves provide the opportunity to mix ISO 02, 01, 1 and 2 valve sizes on one common manifold without transition blocks. This ability allows right sizing in the field and the ISO design supports easy interchangeability for additions or changes to the valve and manifold assembly.

In addition, the H Universal Manifold's design allows the user to easily zone supply or pilot pressure allowing for a mix of different pressures, the addition of vacuum or the ability to isolate the entire supply pressure or just the pilot pressure.

Zoning and pressure isolation allow the user to quickly disconnect supply pressure for safety reasons and maintenance of the machine.

This zoning flexibility is made possible with a unique design that allows main and pilot supply/exhaust to be added anywhere throughout the valve manifold.

A full range of connectivity options are offered for IO-Link, Ethernet/IP, Profinet IO, EtherCAT, POWERLINK, Modbus/TCP, DeviceNet, ControlNet, Profibus DP, CANopen, AS-I or InterBus-S. Those customers requiring a collective, hardwired solution can connect with 25 pin D-sub, 19 pin Brad Harrison, 12 pin M23 connections or, for rigid conduit, a terminal box is also offered.

Users can enjoy important benefits from this product due to its robust design, connectivity options, supply pressure zoning, ability to (right size) mix sizes on the manifold and an easy means of controlling flow within the valve.

The H Series ISO valve offers very high flow rates, covers a broad range of industrial applications and is easy to install with the availability of new patented mounting hardware. The overall design reduces complexity at the machine and makes valve assembly or changes simple and easy. Assembly is further supported with a new configurator available at <http://ph.parker.com/gb/en/pneumatic-solenoid-valve-h-series-iso>.

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KSB BOA-Control Valve - New drinking water measurement valve using ultrasound



By using ultrasonic sensors, BOA-Control EKB and BOA-Control IMS EKB offer shut-off, balancing and measuring functions all in a single valve

Two new valve series - BOA - Control EKB and BOA-Control IMS EKB – will be unveiled to interested specialists by KSB SE & Co. KGaA, Frankenthal, Germany, at this year's ISH trade fair (10 to 15 March). The new valves are destined for use in drinking water supply systems, air-conditioning systems and cooling circuits.

They offer shut-off, balancing and measuring functions all in a single valve. This saves both space and money since there is no need to install additional valves and measuring instruments.

The valve series uses ultrasound waves to record the flow rate via transit time difference measurement. The gathered data can either be saved on site using a mobile measuring computer or continuously transferred to a control station via a stationary measuring computer.

Two sensors attached to the valve enable ultrasonic sensor measurement. Unlike in hydraulic differential pressure measurement, the valve and the measuring computer are connected by electric cables. This eliminates leakage and allows the flow rate to be determined while the handwheel is being moved, irrespective of the valve travel positions and minimum differential pressures.

The sensors can be attached in two different ways. BOA-Control EKB is suitable for mobile ultrasound measurement, and the sensors are attached to the valve body via a magnetic connector only if required. This allows the flow rate to be consecutively measured on any number of valves using a BOATRONIC MS measuring computer and a set of sensors.

An alternative is the BOA-Control IMS EKB variant with sensors permanently connected to the valve body. So in addition to a mobile measurement set-up using BOATRONIC MS, permanent measurement with the help of the BOATRONIC MS-420 measuring computer is possible. The computer continuously transmits the flow rate and temperature values via a 4 - 20 mA signal to a higher-level system. This solution requires no additional measuring instrument to be installed in the pipe. Combined with an intelligent electric actuator, the valve can also be used as a fully automatic control and measurement unit.

Valve sizes DN 15-100 are DIN-DVGW-approved for drinking water in accordance with DIN 3546-1. The elastomers and plastic parts in contact with the fluid handled and the (EKB) body coating comply with the KTW recommendations.

The valves also satisfy the safety requirements of Annex I of the European Pressure Equipment Directive 2014/68/EU (PED) for fluids in Group 2.



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Success for Hydravalue at Valve World Expo 2018



Hydravalue at Valve World Dusseldorf 2018

Hydravalue showcased their first ever priced Process Valves & Actuation catalogue to an international audience at the most renowned European valve and actuator show, Valve World Düsseldorf.

For the exhibition, Hydravalue coordinated with a European partner to build and install a bespoke modular stand. The visual design and graphics were all produced in-house by Hydravalue's Creative department. Displayed on the stand were two bespoke stainless steel fabrications built in a '*Christmas tree*' design but showcasing process and actuated valves, which added a unique feature to the stand. The stand also included core actuators such as the Prisma aluminium, polyamide and stainless steel 0°- 90° rotation pneumatic actuators and the J+J J3CS true multi-voltage electric actuator. Also displayed were 30° and 60° v-balls to suit the Haitima 2013ND and 2019D stainless steel ball valves. The precision of v-balls offers equal percentage flow characteristics, that aren't normally associated with a standard ball valve. The ball can be positioned anywhere between 0° and 90° allowing the user to control and achieve the desired flow rate they require. Furthermore, when fitted with a modulating electric or pneumatic actuator this will provide a greater flow control accuracy than a standard bore ball valve.

Plans for the show began early in 2017, where the management team had engaged in regular meeting to discuss the different variations of proposed designs before signing off the final visuals.

"With it being our first European show outside the UK, we really wanted to make an impression whilst ensuring our stand reflects Hydravalue's core ethics of quality and excellence. From the positive feedback gained at the show, I was very pleased with mine and the teams' effort" said Marketing Manager, Daryl Patel.

Whilst present at the expo and the follow-up after the show, the sales team recognised a growth of enquiries and orders for key core exclusive products such as the J+J true multi-voltage electric actuators and the Young Tech Co. electro-pneumatic positioners. There were also a growth of new enquiries and online orders from international customers that would appear to be from Hydravalue's presence at the show.

New Managing Director, Edward Newham comments on the 2018 Valve World and future shows. *"It's difficult to gauge the true success of the show at this stage. However, the short-term success has been very promising with a large number of ongoing enquiries on our key core products and an increase in export from our web sales. We've also set up exclusive partner from the Middle East who will be a distributor for our products. Regarding the future, Valve World is something we simply can't afford to miss, as it's the perfect platform for Hydravalue to showcase on an international scale."*

Plans are already in place for Valve World Düsseldorf 2020 with Hydravalue submitting their proposed space.

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Oxford Flow awarded drinking water NSF/ANSI 61 and 372 accreditation



Houston, Texas, USA, 30th January 2019 – Oxford Flow, the pressure control equipment specialist for the municipal water, natural gas distribution and industrial process industries, announces today that it has been awarded the NSF/ANSI 61 and 372 accreditation for its polymer water pressure regulating valve (PRV) range.

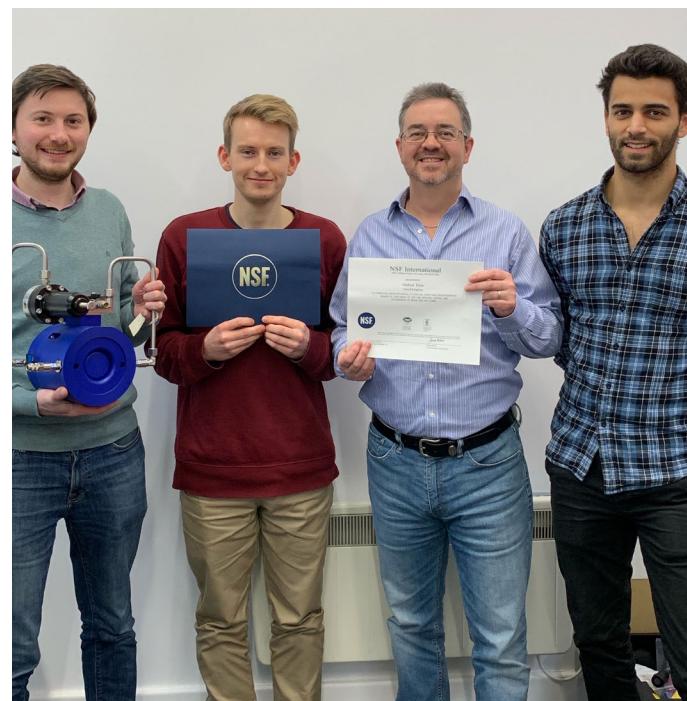
Developed by NSF International, a global public health and environmental organization, and the American National Standards Institute, the NSF/ANSI 61 and 372 certification sets standards for the health effects of drinking water system components. This includes equipment such as mechanical devices, valves, process media and pipes. The accreditation – required by 48 US states and 11 Canadian territories – provides municipalities and water utilities globally with assurance that components will not leak harmful contaminants, such as lead, into the distribution network.

The comprehensive certification process saw Oxford Flow undergo a number of steps including product formulation and toxicology information, plant audits and samples as well as laboratory testing. This accreditation adds to Oxford Flow's recent American Water Works Association (AWWA) standard qualification for AWWA C350 for its polymer valves.

David Smith, Oxford Flow's Director of Business Development for North America, said: "By gaining this certification, it really will help to open doors for Oxford Flow as we expand our presence in the United States, Mexico and Canada. Our team has put in considerable effort to get us to this point and, by combining this certification with our industry-leading PRV technology, we believe we have one of the most unique and innovative PRV technologies available to the municipal water services industry."

Already in extensive use in the UK and Mexican utilities sectors, Oxford Flow's polymer water PRVs are constructed from Acetal, a highly engineered thermoplastic, weighing a fraction of the weight of conventional cast iron valves while elevating performance, ease of installation and reliability. The innovative design also eliminates the need for a rubber diaphragm – removing the source of most water distribution PRV leaks.

Following the accreditation, Oxford Flow will now enter into a series of field trials with more than 10 different municipalities across the United States to be conducted in Q1 2019. The company will also continue its efforts to develop a network of distribution partners to support its regional sales efforts.



Left to right:

Dr Matt Collins - Director of Product Development
Jack Bald - Mechanical Design Engineer
Paul Johnson - Operations Director
Faris Churcher - Operations and Field Development



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Whitford Worldwide to be acquired by PPG

Whitford Worldwide today announced an agreement to be acquired by PPG Industries, a Fortune 500 company and global supplier of paints, coatings and specialty materials. With headquarters in Pittsburgh, Pennsylvania, PPG operates in more than 70 countries around the globe. The transaction is expected to be completed in the first quarter of 2019, subject to customary closing conditions.

"I am proud of the strong, closely knit, family-style culture our organization has built, and excited to join with PPG, a company that shares common values with Whitford," said David P. Willis, Jr., Chairman and founder of Whitford. "Joining PPG is a giant step forward for Whitford," added Willis. "This will provide our organization with access to new technologies, diverse R&D facilities with the latest equipment, strong financial support and global coverage in areas where we have wanted to expand. This is very good news for our customers and our employees."

Whitford, a privately held company headquartered in Elverson, Pennsylvania, was founded in 1969. It specializes in manufacturing low-friction, wear-resistant coatings for industrial applications in automotive, aerospace, energy and construction markets services. Whitford also makes nonstick coatings for cookware, bakeware and small electric appliances such as toaster ovens, griddles, fry pans and irons. Whitford employs more than 700 people and operates 10 manufacturing facilities located in Elverson, PA, USA; Fostoria, Ohio, USA; Guelph, Ontario, Canada; Runcorn, UK; Brescia, Italy; Sao Paulo, Brazil; Jiangmen, China; Zhuhai, China; Tuas, Singapore; and Bangalore, India. Whitford manufactures the largest, most complete line of fluoropolymer coatings in the world. Michael McGarry, PPG chairman and chief executive officer, said "The acquisition of Whitford will allow PPG to further drive value for its customers and shareholders by enhancing our range of

product offerings, research and development capabilities, and global market reach in the growing industrial coatings sector. Whitford's leadership in low-friction and nonstick coatings will provide strategic additions to the robust portfolio of industrial coatings solutions we deliver today, while PPG's research and development organization will leverage Whitford's extensive expertise in fluoropolymer chemistry across the markets we serve."

"In addition, Whitford's global footprint and customer-centric, high-touch business model are highly complementary to PPG's business, allowing for a seamless integration process." said Tim Knavish, PPG senior vice president, industrial coatings.

PPG's industrial coatings business delivers solutions for every step of the production process, from pretreatment products to colorful topcoats. PPG's industrial coatings function in an array of applications, from heavy-duty equipment, to automotive parts, hardwood floors, metal roofing panels and golf balls. In addition to helping surfaces look better and last longer, PPG's advancements in industrial coatings help customers reduce energy use and emissions, minimize waste and leverage sustainable advantages.

Whitford

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Ultravalve wins prestigious supplier award



Pictured left to right: Thomas Brach (Ultravalve Sales Manager), Petri Tuomien (Vexve Regional Sales Director, Europe Middle East) and Bill Brach (Ultravalve Managing Director).

Ultravalve Ltd, the Process Valve and RPZ Valve specialist and part of the Bonomi Group, has been named '*Best New Partner*' at valve manufacturer Vexve's annual Distributor Conference & Awards.

Ultravalve has been working with Vexve Oy, the world's leading District Heating and Cooling Valve specialist, for a number of years and have already established a strong working partnership. As Ultravalve's managing director Bill Brach comments: "*It was a complete surprise to receive the award, but a great recognition of what has been achieved.*"

He continues: "*Both our companies share a similar ethos and core values, with generations of the same family at the helm of both companies, giving us a similar approach and business principles.*"

Vexve has given Ultravalve a further seal of approval by significantly extending their contract as the exclusive UK partner for Vexve and Naval Valves and expanding the territory over which Ultravalve enjoys sole supplier status to include the whole of Ireland.

Background Information:

Vexve specialise in District Heating & Cooling Valves, a large quantity of which were supplied for use in the recently completed ground breaking Greenwich Energy Centre project.

The company is also the first valve manufacturer to be awarded with the EHP003 certificate for steel valves. Issued by RISE (Research Institute of Sweden) EHP003 is part of Euroheat & Power's certification program certifying steel district heating valves (EN 488) for pre-insulated valve assemblies and involves rigorous tensile, compression and bend testing.

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Valv Technologies' Delamination Guarantee for IsoTech® Parallel Slide Gate Valves

HOUSTON, TX. – Valv Technologies, Inc., the leading manufacturer of zero-leakage severe service isolation valve solutions, is excited to introduce a Delamination Guarantee for its IsoTech® parallel slide gate (PSG) valves.

This guarantee states that Valv Technologies ensures its IsoTech® PSG valves, provided with its recommended RiTech® 31 hardcoating for use in high-pressure and temperature, supercritical and ultra-super critical applications, will not delaminate for 10 years or 10,000 cycles – whichever comes first.

Background

Delamination is the separation of the Alloy 6 or 21 hardfacing from the substrate and is believed to be caused by a sigma phase formation typically found when applied to F91 or C12A materials. This results in catastrophic destruction of the seat seal allowing the migration/liberation of the hardfacing, jeopardizing downstream components.

The industry first learned of Alloy 6 delamination in a large valve designed for high-pressure/high-temperature steam service at the 2009 7F Users Group conference. 7F Users Group, Inc. is organized to provide an open forum through conferences and technological aids to the owners/operators of the GE 7F combustion turbine generator systems for effective communication, discussion and information dissemination regarding the operation, maintenance, inspection, troubleshooting and repair of such systems to maximize equipment performance and reliability.

An alert concerning Alloy 6 liberation came from GE Energy, which issued Technical Information Letter 1626 on January 30,

2009. It advised steam-turbine owners to check the condition of the Alloy 6 inlay sections used in fabricating seats for the OEM's combined stop and control valves.

Solution

Valv Technologies' IsoTech® parallel slide gate valves are built specifically for modern-day severe service power applications where temperatures exceed 1000°F (538°C). Our RiTech® 31 hardcoating technology is impervious to the effects of high-temperature cycling typically seen in combined cycle power plants in main steam isolation and hot reheat applications.

Remedy

In the unlikely event the RiTech® 31 hardcoating delaminates from the substrate as described above, Valv Technologies will provide the necessary labor, supervision and tooling to replace the defective components limited to the discs (2) and seat rings (2), either in situ or in a controlled shop environment.

This guarantee is in addition to our standard Four Year Zero-Leakage warranty. Valv Technologies makes no warranty of any kind whatsoever, expressed or implied, other than as specifically stated herein.



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EnerMech Completes Sale to The Carlyle Group and Announces Senior Board Appointments



Oil and Gas Veteran John Kennedy Appointed Chairman

EnerMech has confirmed the conclusion of its sale to The Carlyle Group and announced the formation of the group's Board of Directors. John Kennedy has been appointed as the group's chairman, with Joost Dröge and Bob Maguire, both managing directors and partners at Carlyle International Energy Partners (CIEP), and Philippe Boisseau joining the Board as non-executive directors.

The appointments signal EnerMech's strong intent to substantially expand the business across global energy, engineering and infrastructure markets.

Spanning a 40-year career in oilfield services, John Kennedy has held senior executive positions with Brown & Root, Halliburton and rig manufacturer Lamprell. In 2006 he led the buy-out of Vetco International from ABB and he was chairman of Wellstream Holdings when it successfully completed an IPO in 2007 and three years later when the business was acquired by GE in a £800 million deal.

Doug Duguid, chief executive officer of the Aberdeen-headquartered mechanical and electrical services specialist, said: *"I am delighted we are able to mark the official completion of The Carlyle Group's acquisition of EnerMech with important non executive appointments of the highest calibre."*

John Kennedy's experience in the upstream sector and successful corporate track record will add a breadth of expertise and knowledge which will shape the next chapter of EnerMech's growth strategy.

"With the operating experience, financial resources and international support network of The Carlyle Group and CIEP, EnerMech is in an excellent position to consolidate our presence in our existing markets whilst pushing forward in exploiting new geographic and sector opportunities."

"There is a renewed confidence in our core energy sector client base and we are committed to working collaboratively with clients to identify and provide the best solutions possible. In tandem, our success in establishing a footprint and strong reputation in allied or new international markets, has given us a solid foundation for significant growth over the next decade."

EnerMech announced in October that it had signed definitive agreements to be acquired by NASDAQ listed alternative asset manager The Carlyle Group for an undisclosed sum. Customary anti-trust and regulatory approvals have now been received and the transaction formally concluded.

Equity for this investment will come from CIEP, a \$2.5 billion fund that invests in the global oil and gas sector outside North America. The Fund's mandate includes exploration & production, mid-stream, downstream and oil field services. Credit Suisse, Lloyds and DNB have underwritten the all-senior rated loan financing the acquisition.

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



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Email: sales@enermech.com

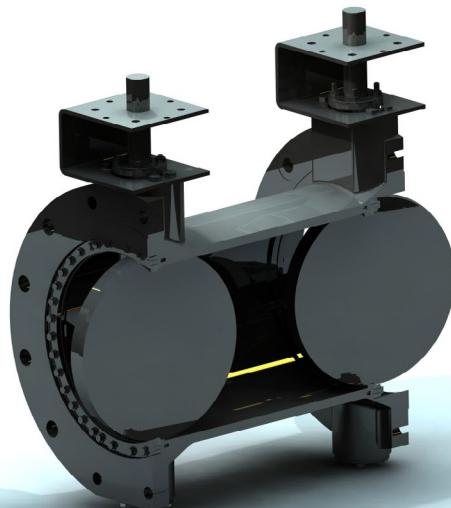
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Hobbs deliver huge cost saving to major North Sea end user

 **HOBBS VALVE**
Tomorrow's Valve Today.



Double Block and Bleed Valve



Inside view of the Double Block and Bleed Valve.

Last year Hobbs Valve, part of the Great British Valve Group, was able to offer a massive cost saving to a major North Sea company. Hobbs were approached to solve an age-long issue by the end user who had been historically utilising through conduit gate valves on their assets. This historical valve choice resulted in long lead times coupled with weight and envelope issues which are a day-to-day issue when fitting valves offshore.

Hobbs extensively investigated the bespoke needs of the application and quickly ascertained the best solution to deliver both maximum performance and at a fraction of the cost.

The solution? The double block and triple offset butterfly valves.

These bespoke Hobbs products incorporate a face-to-face option for the valve to fit snuggly in the current space envelope. This would in turn offer major weight savings in comparison to the historical valve choice.

Most importantly this delivered a cost effective and overall superior valve performance. In fact, the Hobbs Valve rate was 15% of the original historical valve choice ensuring great value to the customer.

Initial concerns or reservations about changing to a brand new valve-type were to be expected and the client posed some initial reservations about changing their valve.

However, after an informative presentation and some enlightening conference calls the Hobbs Valve team explained how butterfly valves have evolved over the past 30 years. They have moved on considerably from being concentric rubber lined valves that would have pressure and temperature limitations.

Years of further development and testing has ensured that the new and vastly improved double isolation butterfly valve model replaces the old offering with better performance over a concentric butterfly valve.

The customer could easily see the overall benefits and positive qualities of the Hobbs Valve product and took the plunge to

changing the valve type used entirely, putting their faith in Hobbs. This faith has been rewarded as 6 months later the Hobbs Valve double block and bleed valve is still achieving high performance with bubble tight shut off on every operation. The mechanical engineers are thrilled with the performance and the change of valve has proved to be a great success.

Hobbs offer a range of double block and bleed triple offset butterfly valves with bidirectional bubble tight shut off class (ISO rate A or ANSI Class 6) with zero friction seating through its operation cycle.

Sales@hobbsvalve.com
www.hobbsvalve.com

Features of Double Block & Bleed Valve.

 **HOBBS VALVE**
Tomorrow's Valve Today.

Utilising DBB TOV

This encoder illustration is based on a 12" pipeline. It is clear to see the advantages of utilising a DBB Triple Off-Gate Butterfly Valve as opposed to 2 gate or ball valves and a connecting spool piece when trying to achieve double isolation.

- Less Space
- Less Weight
- Less Material
- Less Cost

Achieving optimum performance due to fewer possible leak paths in comparison to the conventional choice of Valves.



This just goes to show the right valve choice really can make all the difference...

 **HOBBS VALVE** part of the...

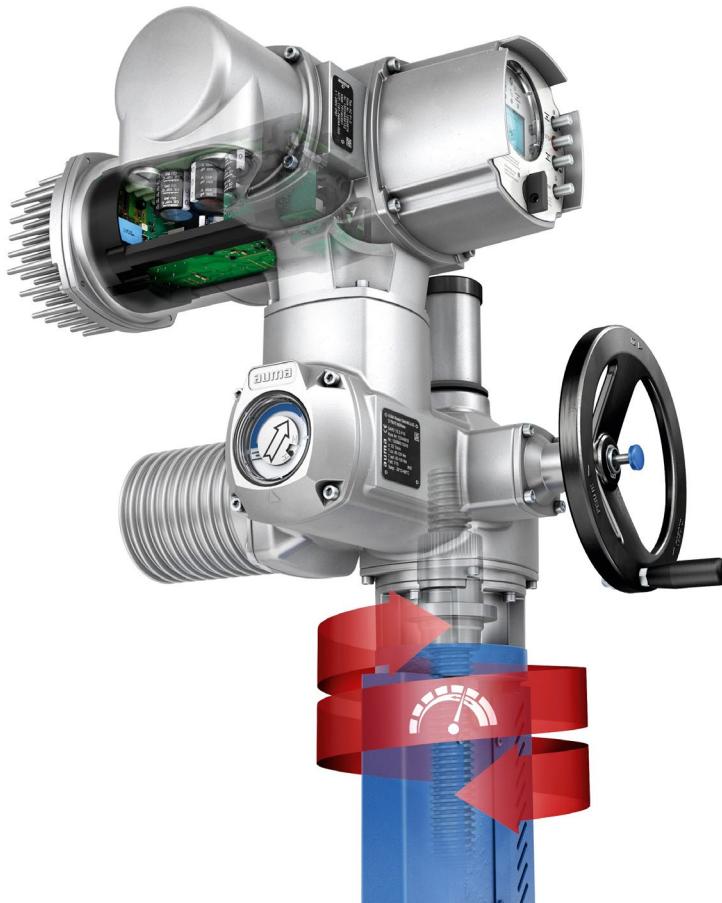

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The “Sympathetic” Control of Valves and Valve Actuation



AUMA SARV Variable speed modular actuator and controls

“To a man who only has a hammer, everything he encounters begins to look like a nail.”
(Abraham Maslow, 1966)

One of the inevitable consequences of being one of the first countries in the world to introduce a comprehensive water and sewerage network is that the British water system is also one of the oldest. Throughout the UK we retain many hundreds of miles of venerable cast-iron pipework. While we bless our Victorian forebears for their vision and engineering ambition, that leaves headaches aplenty for modern operators. Cracks lead to leaks, leaks to waste and increasingly – to substantial fines, including at least one levied by OFWAT of more than £100 million. Water Companies are investing heavily in leak management to mitigate water loss and avoid further retribution.

The valves that control the flow of water and sewage through the network can lock, stick and be difficult to move. Modern valve actuators are capable of exerting very high levels of torque to open and close the valve. If that force is applied too abruptly the shock of the blow can cause the pipework around the valve position to rupture. Also, obviously, a valve actuation cycle starts and finishes at a speed of zero. A fixed speed actuator has a high acceleration from its starting position and, also, an almost instantaneous deceleration when it reaches its end point. Closing at excessive speed results in pressure surges and might cause overloads in both valves and pipeline systems, leading eventually to more leaks.

There is a solution to the problem, one that reliably opens and closes the valve, but which is ‘sympathetic’ to the vulnerability of parts of the infrastructure. AUMA’s variable speed range of actuators now offers the high torque required to release

the valve, with a soft start and soft close that conserves the pipework, and higher speed through the middle of the cycle. AUMA’s ACV speed profiles allow up to ten speed values to be specified for an actuation cycle, regardless of direction. Variable speed operation also allows control of water hammer, avoiding another major risk to pipework.

AUMA offers several types of variable speed actuation. A full range of single-speed actuators and controls, of course, plus SAV multi-turn actuators for open/close duty and SARV for modulating duty are paired with intelligent ACV .2 actuator controls, while SAVEx and SARVEx are explosion-proof versions of the same devices. Soft starting, yet powerful and rapid actuation delivers the torque that every valve requires, without inflicting the damage that a hard blow can cause. At AUMA, we have every tool in the box, not just a hammer.

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EPIM JQS



EnerMech To Create 100 Jobs as it Targets Onshore Sector in South England



EnerMech Regional Director Europe, Ross McHardy (left) with General Manager South West Duncan Frame

North Sea Experience is Platform for Expansion into New Markets

EnerMech will develop an onshore capability in to the South West of England which will create up to 100 jobs in the Bristol area over the next three years.

The Aberdeen-based mechanical and electrical services specialist will target the nuclear, industrial processing, refining, petrochemical, aviation, defence, transport and infrastructure sectors as it diversifies outwith its energy industry roots.

The company believes its track record in the highly regulated offshore industry and experience of working on global infrastructure projects will enable it to successfully introduce existing service lines in to new onshore sectors.

EnerMech has appointed Duncan Frame, who spent 20 years with GE in senior commercial and operational roles in a number of different sectors, as General Manager South West, and he will spearhead expansion of the EnerMech brand.

Duncan Frame said: "EnerMech has years of experience of working in the highly regulated offshore sector and there exists a number of logical entry points to many of the onshore high tech and broader industrial sectors which populate the Midlands and south of the UK."

"The disciplines and methodologies which have been fine tuned in the North Sea and global oil and gas hubs are transferrable to an onshore environment and I see this as a terrific opportunity to build on the EnerMech success story which is strongly founded on evolution and diversification."

EnerMech business lines including hydraulics, cranes and lifting, integrity and inspection and process and pipelines will appeal to a large number of businesses located in the southern half of the UK. There is also potential to provide integrated services, including electrical and instrumentation and testing and certification, to

a number of nuclear, naval and marine projects. "We envisage building a significant team of competent, multi-skilled individuals with experience across multiple sectors in the next three to five years and will establish the necessary workshop, storage and testing infrastructure to be on the doorstep of and accessible to potential new clients," added Mr Frame.

Established ten years ago, EnerMech employs 3,500 staff across 40 locations in the UK, Norway, the Middle East, Caspian, Asia, Africa, Australia and Americas. The company works on large scale projects across the oil and gas, LNG, renewables, defence, power, infrastructure and petrochemicals sectors and expects to grow revenues in 2018 to £430 million, up from £361 million in 2017.

EnerMech chief executive officer, Doug Duguid, said: "We have always been an outward looking business and this extension in to new markets is a natural step and part of a global strategy which will see EnerMech double in size over the next five years."

"We have successfully diversified from our traditional oil and gas base in to major infrastructure projects and this is another good example of introducing our skills and industry expertise in to new sectors which demand similar levels of regulation and duty of care."



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Bonomi Introduce Valpres Direct Mount Wafer Ball Valve Range

Valve specialist Bonomi (UK) Ltd has extended its range of Valpres products with the introduction of new Stainless Steel (723100) and Carbon Steel (724100) 2-way flanged direct mount wafer pattern ball valves.

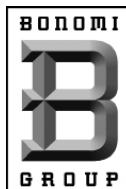
Featuring an ISO 5211 Direct Mounting pad which allows actuators to mount straight on to the valve, the new wafer ball valve eliminates the requirement for an additional valve mounting kit.

Operational within a temperature range of between -20°C to +160°C and available in sizes 1" to 4", these full-bore flanged ball valves (PN16 or ANSI 150) are available in stainless steel CF8M or carbon steel LCB and supplied complete with antistatic device.

Each wafer pattern ball valve can be supplied fully assembled with either a pneumatic or electric actuator from Bonomi's Valbia range.



Valpres Direct Mount Wafer Ball Valve Range



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Email: sales@bonomi.co.uk

Web: www.bonomi.co.uk

'Assembly and testing takes place in the UK at Bonomi's Midlands based Actuation Centre to keep lead times to an absolute minimum.'

Control Valve Solutions makes Huge Investment towards Valve Market Leadership

In 2016, the Directors at Control Valve Solutions Ltd (CVS) made an announcement to the Senior Management Team that would take CVS to the next level of market leadership. We made the decision to acquire new premises and launch a property project, a property that would be the new home for CVS. Our 'Property Project Team' consisted of Senior Managers and their remit was simple: *To involve every member of staff and find three possible properties that meet specific CVS requirements.*

Our team visited 12 sites. They scored each facility against our criteria. In December 2017, the team presented their findings and recommended three potential facilities.

Eight months later, we reached an agreement to acquire Unit 7, Minto Place in Altens, Aberdeen, a poorly maintained but modern building that needed some serious work!

Managing Director, Mick Beavers, was Project Manager, ensuring that there was no interruption to business. We set a bold budget with almost £1m raised for the project through retained profits, outgoing tenant negotiations, Scottish Enterprise funding, and a business loan from Clydesdale Bank.

The property project involved 32 contractors, employed to complete various parts of the project. The project led to three new services at CVS:

- An extensive machine shop with various machines that enable us to conduct in-house machining of valves and associated products, specifically valve machining for sizes up to 36 inches.
- A fabrication shop that allows the business to react quickly to mounting kits and other ad-hoc welding requirements.
- A fully certified de-contamination facility, located in the large 2,400 sq./m yard and having various stages of separation, the interceptor is also linked to the test facility.

The 1,700 sq./m workshop has a high specification floor system, five dedicated assembly bays serviced by a 16 ton overhead crane, 3 disassembly areas, segregated from the clean areas of the Operations Team. A coatings facility contains two blast bays, a large PLC controlled drying room and a state-of-the-art paint booth.

In addition, the Stores/Logistics team have a new toy installed: A 32 shelf, 8.2M tall Kardex machine with an 8ton capacity for holding stock holding and a floor footprint of 2Mx4M. We upgraded the test facilities with three high-pressure test modules with each able to test up to 22,500psi hydrostatic and 15,000psi pneumatic, submersible tanks to ensure we carry out safety and accurate tests. For PSVs, there are two bays fitted with high accuracy test equipment and all the specialist tools required for PSV service, repair and testing. To complement the facility, we built a large R&D laboratory, enabling staff and clients to develop solutions with us.

Our new office space have low energy LED lighting and we replaced all flooring. Every wall received a new coat of paint. Our reception area showcases CVS' 'F1 Dream'. This represents our drive to become best-in-class, not just in the valve industry but in our culture, teamwork and communication.

Six months later, our staff are moving in! It's been an incredible project for CVS. Our directors made a huge investment at a time when the Oil & Gas industry just started to recover.

Mick Beavers explains why he made this investment, "You have to invest and show your continued support to an industry that is looking for ways to reduce costs and become more efficient at bringing new technologies to the industry. At CVS, we believe that we have raised the bar as market leaders in our industry."

The new facility will officially open this March, coinciding with the 10th anniversary of Control Valve Solutions.



Inside our newly completed workshop with increased capacity and enhanced valve services



Control Valve Solutions moves to new property with state-of-the-art facilities in Altens, Aberdeen



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Rotork adds Plug and Socket Option to IQ Range



The Rotork plug and socket option provides further flexibility to the advanced, user-friendly design of IQ3 and IQT3 actuators.

Rotork IQ intelligent electric valve actuators are recognised for being technically advanced, robust, reliable and user-friendly. These qualities have now been further enhanced with the option of a bespoke plug and socket electrical connection.

The new optional modular Rotork plug and socket interface provides a fast connect / disconnect option for IQ3 multi-turn and IQT3 part-turn actuators, encompassing 3-phase, 1-phase and DC (IQT3 only) electrical variants and including many actuators with explosionproof EXd enclosures conforming to ATEX, IECEx, CSA and CSAus international standards.

The plug and socket terminal cover maintains the integrity of the actuator's double-sealed enclosure and IP68 watertight environmental protection (submersible in 20 metres of water for 10 days).

A plug and socket interface is favoured in some industries for providing quick and easy field wiring and quick removal or

interchange of actuators for maintenance and other operating requirements. The Rotork solution provides further flexibility to the advanced, user-friendly design of the IQ actuators.

These include secure Bluetooth® non-intrusive setting and commissioning, an information-rich display, real-time status reporting and configurable datalogging to provide detailed analysis of the valve condition and asset management support.

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Valve-Kits – the Original Kits Specialists

Valve-Kits - the specialist valve and actuator kits manufacturing company - has just opened its new 18,000 sq. ft manufacturing and warehousing facility in Nottinghamshire, UK.

MD Craig Mellins notes, 'Having been part of the first ever specialist kits manufacturing company in the UK more years ago than I care to remember, when the opportunity arose to buy 'Valvekits' from Rotork - the company I sold my business to - I didn't hesitate. Just as they supported our integration years ago, Rotork supported us magnificently through that transitional stage back into private ownership.'

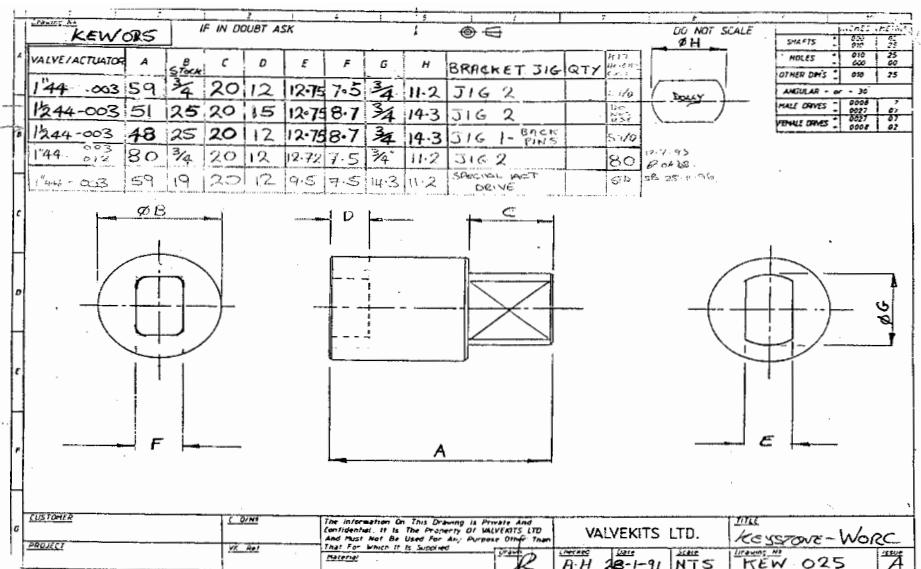
But it was more than just the transition, as Craig explains, 'As the original valve-kits company in the UK, we'd had many of our staff with us for decades, some straight from school, and we'd all travelled life together. It was very important to both Rotork and especially myself that we ensured that the Valve-Kits "family" stayed largely intact. I felt not only a moral responsibility, but

also these are highly skilled and irreplaceable employees, vital to the success of the company - I'm absolutely delighted they made the move with us.'

"acquired... all the back catalogue"

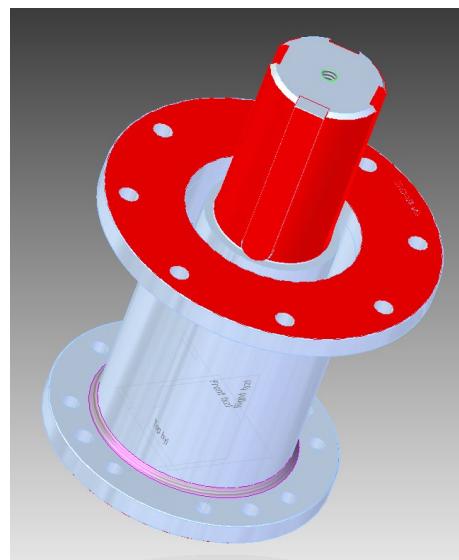
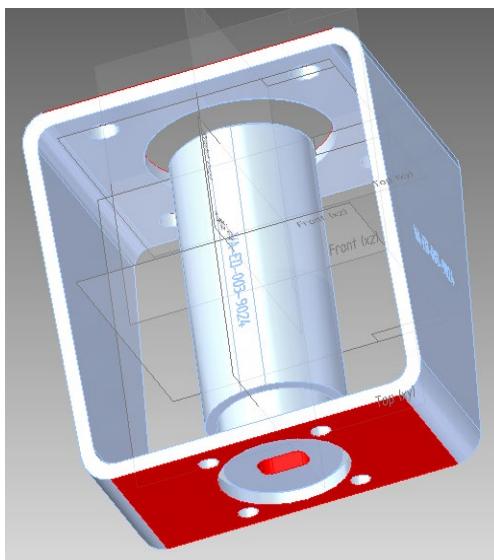
Crucially, Valve-Kits also acquired all the assets of Rotork Valvekits including all the back catalogue of Valvekits designs from 1988 to date.

Likewise, Valve-Kits has built and maintained a solid reputation for its ability to be able to offer the highest possible standards



'Over the last 30 years Valve-kits has moved from the manual paper drawings back in the late 80's to vastly improved 3D design capabilities'

The engineer who designed the brackets on the original paper drawings has also completed the designs on the 3D mounting kits 30 years later!



of service and tailored lead times to suit its customers' ever demanding requirements.

As Craig's colleague Kevin Wilson commented, 'We supply a vast array of valve and actuator related products, including mounting kits, extension stems, locking devices, worm and bevel gears, accessory mounting brackets, linkages and panels for the fitting of filter regulators, positioners and solenoids. What we do not sell and will never sell is the valve and actuator itself.'

'We design all of our manufactured products to the customer's specific requirements in various materials. All of our designs are produced in-house by our highly trained design teams. These designs are backed up with calculations to give peace of mind to the customer.'

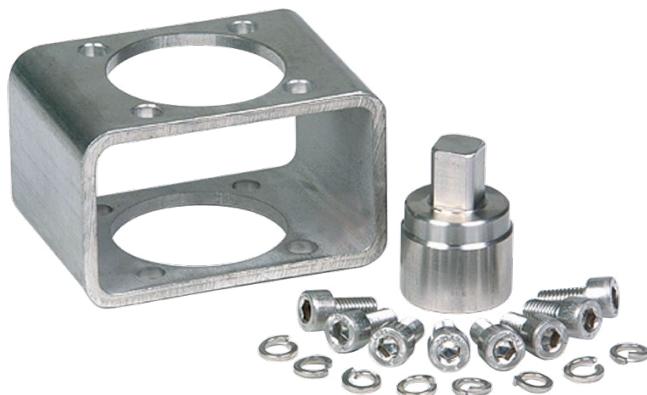
'Valve-Kits manufactures all valve and actuator mounting kits in accordance with the most stringent design and manufacturing processes. We also use the latest CNC milling machines and lathes and we have a continual investment plan for new machinery to keep us at the forefront of technology.'

Products

- Mounting Kits
- Spring Return Handles
- SS Spring Return Handles
- Spool piece adaptions
- Pedestals
- Handwheels and levers
- Flexible extensions
- Extension spindles
- Switchboxes
- Locking Devices

Other services

Craig concluded, 'We also offer a broad range of additional services, just as we always have before. These include bespoke design packages, Finite Element Analysis, Epoxy painting, Powder coating, Galvanising, Zinc plating, Laser cutting and Fabrication. We are also major stockists of AB and IW ¼ turn gearboxes and HOB and IB multi turn gearboxes with a torque range from 150Nm to 264,000 Nm. Indeed, we supply everything for the valve and actuator industry except valves and actuators!'



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Albion Actuated Valves



Actuation is set to play an increasing role in process industries globally, according to a recent report. Here, Les Littlewood - Sales & Marketing Director at Albion Valves (UK) Ltd., explores the options for those specifying and supplying actuated valves.

With the process market increasingly reliant upon actuated valves for accurate and efficient flow control, it is perhaps no surprise that the market for valves and actuators is predicted to show strong growth from now until 2024.

According to a market report by Market Research Engine – global sales of valve and actuators are expected to reach \$124bn in less than 5 years – equivalent to a very healthy compound annual growth rate (CAGR) of 6% over the period forecasted.

Although the report doesn't quantify process or manufacturing usage specifically, we know that increasing desire for the highest levels of production efficiency, improved health and safety and reduced human intervention (leading to further reductions in labour costs), all point to the increased use of actuated valves across a wide-range of process applications.

At Albion, we have been supplying actuated valves for over 20 years, but demand has never been greater than it is now.

Dave Keys, Managing Director at Albion commented:

"We've been aware of the upward trend in actuation for some time now and, in line with our other plans for expanding our product lines, we have invested quite heavily in our actuated valve portfolio. We can now offer our distributors products in Stainless Steel, Brass and Cast Iron in a variety of formats including ball and butterfly valves in either two or three-

way configurations. All of our valves come with standard ISO mounting making assembly with any type of actuator simple and straightforward."

With such choice however, can come confusion. So, for those who may not be involved in specifying or buying actuated valves on a regular basis, it's worth remembering a few basics.

Control v Isolation

Proper actuator and valve selection is usually a direct function of the application; with applications falling into two main categories: control and isolation. Modulating control valves are used to regulate the flow of liquid to control a process, whereas isolating valves are simply used for complete shut-off.

The main difference in the two types of application is the control of flow. Modulating valves are required where precise control of the medium is required, whereas isolation valves simply fully open or fully close the valve.

The environment in which the valve and actuator need to operate is also a significant factor affecting choice. Is air or electricity available? Are there any concerns over 'clean' operation? Does the application represent a harsh or corrosive operating environment? All of these factors need to be considered and will, in the majority of circumstances, dictate which type of actuation is most suitable, principally pneumatic or electric for process applications.

Pneumatic v Electric

Pneumatic actuators, powered by compressed gas or air, generally provide high force and speed at a low unit cost and in a relatively small operating footprint. It is worth noting that pneumatic cylinders provide more force and speed per unit size than any other actuator technology except hydraulic. Whereas electric actuators use an electric motor to provide torque to operate a valve; they are quiet, non-toxic and energy efficient. Electric actuators are available in a wide range of voltage including 24VAC, 24VDC, 110VAC, 220VAC & 380V. In contrast to pneumatic, electric actuators provide precise control and positioning and are most economical when deployed in small to medium, as opposed to large-scale, applications.

'If in doubt – ask.'

Our advice is simple. *If in doubt – ask.* There is no set answer to what type of actuator and valve combination is best, as always, it depends on the application in question and considerations of the project overall - specification, operating requirement and of course cost.

As Dave Keys says, it pays to speak to a professional:

"Our in-house technical team can build, test and ship valve and actuator assemblies – often on the same day as the order is received. What's more, due to our partnership with experts in the actuation industry, we can provide the most suitable and cost-effective solution whatever the demands. This includes switchboxes and Namur solenoid valves for either standard or hazardous applications. So, whatever the project, you don't need to tackle it alone."



Flanged PN16 stainless steel ball valve with electric actuator



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Malaysian refinery trusts Rotork Client Support Programme for tailored valve actuation management



The Port Dickson refinery will benefit from Rotork's Client Support Programme to increase the reliability of the site's actuator and network control products.

The Rotork Client Support Programme (CSP) has been chosen by the Hengyuan Refining Company Berhad for the asset management of Rotork valve actuation equipment at its Port Dickson refinery, which is the leading refiner, manufacturer and supplier of petroleum products in Malaysia.

Awarded to Rotork Malaysia, the CSP will run for two years initially, with the option to extend to four. It is designed to meet the company's specific needs, encompassing 157 Rotork electric actuators, a Rotork Master Station and Pakscan control loop testing facility.

The Rotork CSP offers a tailor-made service designed to increase reliability and availability of valve actuator and control products via planned maintenance, predictive maintenance and asset management. The primary goal is to identify and eliminate any potential issues before they occur. This includes equipment checks, replacement of worn components and partial or complete overhauls at specific periods. CSP clients have 24/7 access to Rotork Support Centres, with prioritised technical assistance backed by comprehensive resources and dedicated systems.

Benefits such as increased production and reduced year-on-year maintenance costs are supported by generated reports detailing cost savings and performance improvements.

Commenting on the contract, a Rotork Malaysia spokesperson said:

"Winning this contract has demonstrated Rotork's ability to adapt to our client's needs and the value placed by our end users on the reliable maintenance service we can provide. Rotork's Client Support Programme is the most comprehensive and flexible maintenance programme offered by any actuator manufacturer and focuses on ensuring reliability, not retrospective repairs."

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Leengate Valves has seen further expansion in 2019

CHECK VALVE SPECIALISTS

The image displays three different types of check valves against a dark blue background. On the left is a Nozzle Check valve, which has a small circular opening at the top. In the center is a Ball Check valve, which is a Y-shaped valve with a spherical ball inside. On the right is a Retainerless Dual Plate valve, which features two parallel plates that close off the flow path.

Nozzle Check

Ball Check

Retainerless Dual Plate

CASTFLOW VALVES

Leengate Valves

Leengate Valves has seen further expansion and revision in 2019. Continuing to maintain a strong chain of supply to the UK market, despite uncertain times.

Leengate Valves' already vast storage space has seen the addition of around 160 pallet spaces; now taking their total to over 1000 pallet locations fully stocked with everything you need – not to mention thousands of locations for smaller, non-palletized items.

Continuing to maintain a strong chain of supply to the UK market, despite uncertain times, Leengate are stepping up to reassure its distributors that their decades of hard work and dedication means that they will continue to offer the same level of service and availability that the market has come to expect.

Sales Director, Mick, said, "Maintaining a mutually-beneficial and fair relationship with our suppliers and manufacturers has always been of paramount importance to us. We're certain that the strong relationships we have worked so hard to build will benefit our customers for years to come."

Always proud to promote their manufacturer's product branding, Leengate Valves are continuing to increase awareness and visibility of their many worldwide manufacturers and, keen to continue its tradition, Leengate have collaborated with their manufacturing partner of 15 years, CASTFLOW VALVES, for this editorial submission.

Spanish manufacturing partner CASTFLOW VALVES specializes in check valves, covering DN25 (1") to DN1400 (56") sizes to suit a variety of flange connections including PN10, 16, 25 & 40 as well as ANSI 150 and 300.

As well as their many connection options, CASTFLOW manufacture valves in many different materials, including, Iron, Steel, Stainless Steel, Super Duplex and other special alloys.

Technical support for CASTFLOW valves is impeccable and distributors can rely on the CASTFLOW and Leengate Valves' teams to ensure that the most suitable valve and material are selected for your application.

Already a major player in the worldwide industrial valve market, CASTFLOW's continued growth has seen them develop improved rubber lined check valves for applications with corrosive fluids. Their retainer-less rubber lined check valve design guarantees a drop tight valve without weak areas that normal rubber lined valves can present.

CASTFLOW continuously develops new products depending on the needs of the market and encourage close collaboration with Leengate Valves in the UK and beyond.

If there are any CASTFLOW valves you would like to hear more about call Leengate Valves on **01773 521555** or email info@leengatevalves.co.uk

Leengate

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Commissioning underway for LNG safety system



Tim Blake from Severn Glocon Technologies with the HIPPS supplied for an LNG Vessel

HIPPS from Severn Glocon Technologies deployed on Floating Storage and Regasification Unit

Engineers from Severn Glocon Technologies have visited Korea to commission a High Integrity Pressure Protection System (HIPPS) supplied to shipbuilder DSME for a Floating Storage and Regasification Unit (FSRU).

The LNG FSRU vessel, BW Magna, has a capacity of 173,400 cubic metres. The HIPPS has been integrated and installed by Severn Glocon Technologies to protect the pipeline during the unloading of gas, enhancing safety for the FSRU and the downstream equipment and pipeline in the docking terminals it connects with.

HIPPS are not mandatory on FSRUs, but it's increasingly recognised that they provide a superior level of safety and reliability. Situated between high-pressure upstream and low-pressure downstream units, they contain media if overpressurisation is likely to occur, rather than venting.

The system supplied to DSME operates at a working pressure of 117 barg. It comprises two 18" 900-class manual valves, a Sella Controls logic solver and three pressure transmitters.

Severn Glocon Technologies is a leading provider of HIPPS, and parent company Severn Glocon has extensive LNG experience having manufactured severe service valves for megaprojects including Ichthys and Gorgon. Site Manager Tim Blake says HIPPS integration and installation requires a wide range of engineering and functional safety expertise.

"Effective HIPPS integration demands electronic and mechanical engineering skills, with software engineering input sometimes needed as well," he explains. "It's important that these specialist engineers interrogate the design brief and collaborate with functional safety professionals. So, using an independent integrator can offer a major advantage - at Severn, we employ all of these professionals inhouse."

Additional safety measures on the FSRU include alarms, a shutdown system, blow down system and safety valves, as per industry-specified standards. The benefit of adding HIPPS is that it is a simple, proven solution which can operate independently of the wider vessel system.

Severn Glocon Technologies is part of Severn Glocon Group, www.severngt.com, info@severngt.com, +44 (0) 1209 312000.



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'C-Cut' Restricted Access Safe Cutting

BHR Group's fluid engineering expertise, partnered with OMS' unrivalled experience in precision manipulation, combines to deliver a new standard in decommissioning



BHR Group is working with Optical Metrology Services (OMS) to deliver a new service in decommissioning. BHR Group's exceptional waterjet cutting expertise has been combined with OMS' unrivalled experience in precision manipulation to deliver a remote and restricted access, safe cutting tool that will help operators reduce plant down time and utilise precision cutting at both distance and within confined spaces.

DIAJET (Direct Injection of Abrasive Jet) is a cold-cutting technique that provides powerful and accurate cutting and cleaning for hazardous environments where challenges such as limited access, minimal secondary contamination and heat need to be carefully managed.

'BHR Group's exceptional waterjet cutting expertise has been combined with OMS' unrivalled experience in precision manipulation'

The DIAJET technique creates a slurry suspension of solid particles into a high pressure water jet of 100-1000 bar. The slurry suspension approach has a cutting performance that is up to five times greater than entrainment water-abrasive cutting techniques. Coupled with OMS' precision manipulator technology, the DIAJET cutting head can now be applied to restricted access, hazardous environments, ideal for complex decommissioning challenges in the oil & gas and nuclear sectors.

Clients choose DIAJET because it provides:

- Reduced plant downtime
- Flexibility, versatility and accuracy
- No heat affected zone
- Precision cutting at a distance
- Cutting in confined spaces
- Minimum secondary contamination
- A small equipment footprint
- Single, smaller diameter hose delivery
- Simultaneous cutting of multiple materials

Vital applications include:

- Cutting munitions for explosive ordnance disposal
- Removal of structural steel and pipework for nuclear, subsea or topside decommissioning
- Cutting leg piles from offshore oil platforms
- Cutting of pipework and tanks for plant maintenance
- Removal of contaminated and corroded surfaces



BHR Group

EXPERTS IN FLUID ENGINEERING

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Advanced Valve Solutions, Start-Stop Operation Summary

Introduction

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

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

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

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

This all must be done as quickly as possible to limit the starting costs and to supply as soon as possible to the grid. In the European markets the driving factor is high fuel costs, reducing the need for full speed no load, however in the USA the driving factor is to reach emission values as soon as possible.

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

The AVS Solution

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

With this package in place, it leads to reduced maintenance costs, to reduce starting time and to upgrade the reliability of your existing installation. With many years of experience and a group of high qualified European manufacturers supporting our performance, we deliver a complete solution.

HP Bypass Stations

By spraying centrally in an axial direction there is no chance of spraying onto the hot trim parts or onto the downstream piping, which is a typical cause of thermal cracking, there is no backwards spray.

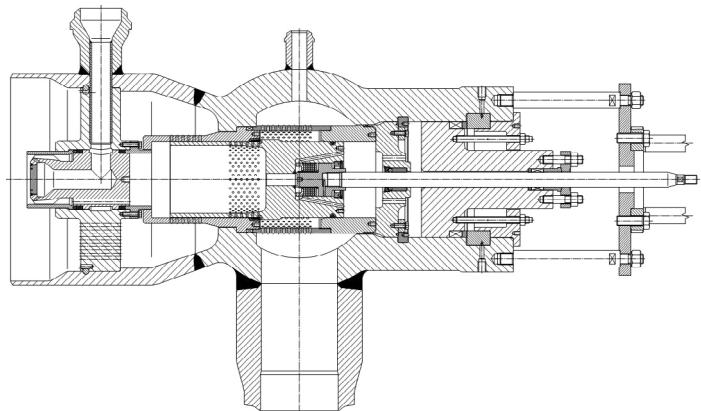
The pilot plug operated balanced trim, is tightly seated during closure, thus can maintain pressure in the boiler following a shut down.

This results in a faster start, by maintaining the pressure in the boiler for longer, ideally suited for allowing a hot start.

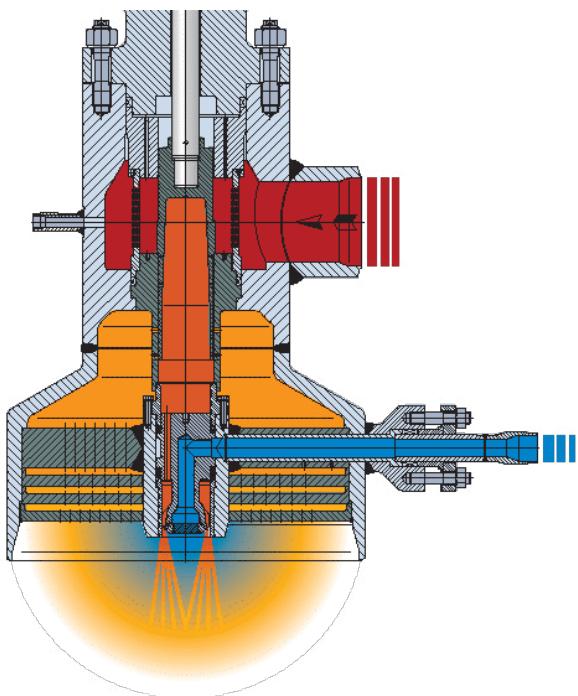
By using a steam atomizing unit, the Sauter (D32), diameter of the droplets, is much smaller than droplets formed in a pressure difference driven cooler (for example; spring loaded nozzles in ring type cooler).

The simple reason is that with the Mach 1 velocity of the steam atomizing head, droplets are atomized with a Weber number many factors higher than that of a pressure difference driven cooler, meaning faster and more efficient atomisation, and a finer, more controllable cooling range.

All water is evaporated and no additional water has to be discharged through the drip legs. This water is normally causing thermal problems in the downstream piping.



General arrangement drawing of a typical HP Bypass



HP bypass, clamped trim, pressure seal, steam atomizing spray, spherical body



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The J4C Series by J+J Coming Soon to Hydravalue (UK)



The J+J J4C Coming Soon

The Official Distributor for the J+J Electric Actuator in the UK and Ireland

As recently published on social media, Hydravalue (UK) are pleased to be appointed as the official distributors in the UK and Ireland for the J+J electric actuator. Furthermore, as you may have seen at Valve World Düsseldorf 2018, J+J BCN advertised the news of the J4C on their stand. The model J4C, the latest series from the innovative European manufacturers J+J, showcases significant improvements to its predecessor the J3C. Making the smart actuator even smarter.

With IP67 industrial weatherproof housing, unrivalled and patent pending 24-240V AC or DC multi-voltage technology with automatic voltage sensing, multi-coloured LED actuator status light and DOME visual position indicator. Additionally, a user-friendly plug and play kit, allowing the user to modify a standard on/off actuator to create a failsafe and/or modulating actuator. When comparing the J4C to the J3C you can identify clear DNA heritage. However, this is where the design innovation begins, the J4C features revolutionary brushless motor technology.

The brushless motor is stronger, more efficient and less maintenance is required when compared to a brushed motor. This contributes to a significant improvement in the lifespan of the actuator. Due to this, J+J have offered for the first time a 3 year warranty from shipment date or up to 60000 working cycles.

J+J have also introduced a Bluetooth technology option. The Bluetooth communication system built into the actuator can communicate with any IOS or Android device. From a mobile phone or tablet, the user can open, close or stop the actuator. The user can also gain technical information such as the status, read

parameters or investigate errors or incidences via Bluetooth, the actuator can communicate up to 50 devices within a maximum distance of 20m. The communication between all the devices is also password protected.

The final revolutionary new feature to the J4C is a Modbus option. This plug and play feature allows the user to operate each individual actuator manually. Up to 32 actuators can be installed and connection is available via a ethernet cable up to a 1200m distance range or WiFi up to a 1600m distance range without a WiFi booster. The user can operate the system from a control panel, tablet, mobile phone or PC resulting in the flexibility of use inside or outside a plant. However, this option is only in operation when a minimum of 3 and a maximum of 32 actuators are installed.

The J4C is due to be released in Summer 2019 and will be available from stock in all torque ranges from 20Nm to 300Nm at Hydravalue. For more information please contact our technical sales team.

hydravalue
(UK) LIMITED

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Fast and reliable configuration of automated process valves



Get the right solution quickly and easily with the configurator for process valve units.

From manually operated to automated process valves, the new configurator for process valves from Festo makes selecting the optimum solution child's play. Simply select a few parameters and the configurator will immediately suggest appropriate combinations, making engineering in the process industry fast, reliable and easy.

The configurator for process valve units significantly simplifies engineering and procurement processes. The tool ensures quick and successful project management by taking all relevant factors into account: from initial product search, configuration, sizing and documentation right through to ordering and delivery of the ready-to-install process valve unit – including customer-specific requests, everything is combined in one tool.

Configured process valve units are tailored and ready-to-install, all components are perfectly matched: butterfly valves, quarter turn actuators, pilot valves, sensor boxes, positioners, adapter kits and hand levers.

Whatever you are looking for, whether it is the ease of manually actuated combinations, a unit with pilot valves and a sensor box, or a unit with a positioner, you simply choose the required parameters in the input menu and the configurator suggests the right solutions.

Order ID and CAD download included

Together with the proposed solution, the configurator generates an order ID for the complete combination, which can be used for placing future orders.

There are also benefits in terms of documentation because the CAD data for the complete module can be downloaded in accordance with the configuration.

Breakthrough in digitalisation

With its configurator for process valve units, Festo is driving digitalisation and supporting its customers to enter the age of Industry 4.0. Festo as an automation expert is combining its extensive knowledge of industrial applications with the latest developments in information technology to realise online applications for industrial automation practice.

Festo is also using digital communication to support its customers throughout the Digital Customer Journey. This digital journey guides users safely and comprehensively through the Festo portfolio, from information procurement and configuration through ordering and delivery to commissioning and maintenance or even to the technical training offering of Festo Didactic.

Link to the configurator: www.festo.com/kvza

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Coating solution to extend weather windows for drilling operations



ArticuLock in Moonpool



DeltaTek CEO, Tristam Horn



Deployment of ArticuLock

Hardide Coatings has provided a coating solution for a new tool that will save oil and gas operators millions of pounds per year by extending weather windows for drilling operations.

Well construction specialist DeltaTek Global selected the Hardide CVD (chemical vapour deposition) tungsten carbide-based coating for the key component of its new ArticuLock tool. ArticuLock provides operators with longer weather windows to deploy subsea hardware and improve operational reliability by removing bending fatigue in subsea running tools and landing strings.

The Hardide-T chemical vapour deposition (CVD) tungsten carbide-based coating was used on the key component of the tool, a complex shaped ball and socket pivot joint, which is subject to extreme loads of up to 400 tonnes, 5000 psi of working pressure and 30,000 ft.lbs of torque while operating in severe wind, wave and current environments.

Delays due to bad weather costs operators £400 million per year in the UK alone and up to 20% of drilling budgets are allocated to waiting on weather. Use of ArticuLock will allow operators to run tools in weather environments where previously drilling would have been suspended. It can increase operable wave heights by 400%, from up to 1m to up to 4m.

The severe operating conditions meant that a hard-wearing coating was needed for the pivot joint body which is manufactured in AISI 4330V alloy steel, widely used in the oil and gas sector. The complex grooved geometry on the ball of the pivot joint body presented a further challenge to achieving the necessary post-coat surface finish.

Hardide Coatings and DeltaTek worked together to achieve the necessary hardness, thickness and smooth surface finish through coating and polishing alone, rather than using grinding. Tristam Horn, DeltaTek CEO said:

"ArticuLock will be deployed in some of the harshest oil and gas drilling environments in the world and we need its components to deliver optimal performance under extreme operating conditions. The geometry of the pivot joint body is complex and Hardide-T provided the only solution that combines the necessary wear properties with ductility and the ability to coat such designs. The Hardide coating delivers in each of these areas and is an important part of the tool's success in offering significant cost benefits to oil and gas operators worldwide."

ArticuLock® was successfully field-trialled on the Stena IceMAX, a state-of-the-art harsh environment, ice-class drillship. The tool is expected to be used in regions as varied as the North Sea, the Gulf of Mexico, West Africa and Western Australia.

Hardide Coatings is also supporting DeltaTek on its Seacure cementing tool that will be field tested west of Shetland in early 2019.



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European Ball Valve Standards – Future Direction



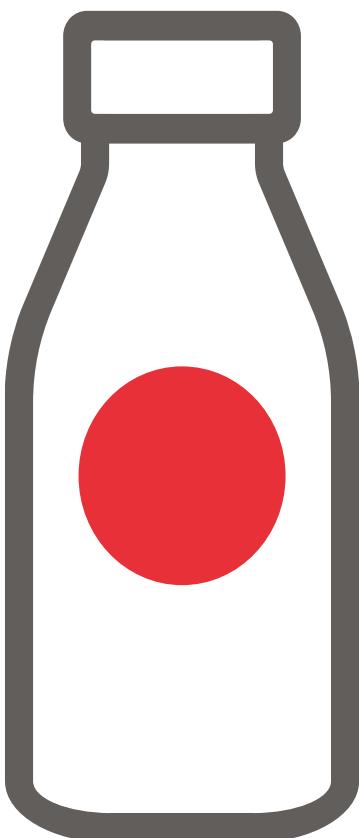
What is it?: Currently there are three EN standards for ball valves

1. EN 1983:2013 Industrial valves - Steel ball valves
2. EN 13547:2013 Industrial valves – Copper alloy ball valves
3. EN ISO 17292:2015 Metal ball valves for petroleum, petrochemical and allied industries (the basis for this standard was BS 5351)

EN 1983 and EN13547 are both Harmonised Standards under EU Directive 2014/68/EU and are currently subject to the 5 Year Review Procedure. EN ISO 17292 is not Harmonised

Why is it important?: It is now CEN TC69 policy to have one product standard covering all materials. Therefore it is expected that TC69 will create a new standard for Metallic Ball Valves and withdraw both EN1983 and EN13547. The new standard will include reference to the Harmonised Standard EN 16668:2016+A1:2018 Industrial valves - Requirements and testing for metallic valves as pressure accessories.

It is important that TC69 makes changes to EN standards that support the needs of valve users. Manufacturers and Distributors will have knowledge of the needs of their customers.



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KOSO Kent Introl enter agreement with Broch International Limited



Broch International visit to Kent Introl (L to R: Peter Symmonds, Stuart Billingham and Charles Njendu)

Broch International are a leading supplier of MRO equipment and services in Africa and beyond. KOSO Kent Introl will strengthen Broch International's offering with our first-class technical expertise and support. Coupled with our mutual commitments to safe solutions and ethical practices, the partnership will be the foundation for what is set to be strong emerging market.

KOSO Kent Introl have established a partnership with Kenya-based Broch International Limited. Incorporated in Nairobi in 1998, Broch International specialise in the supply of Maintenance, Repair and Operations (MRO) services to the East African Energy Industry.

Background

Broch International are a leading supplier of MRO equipment and services in Africa and beyond. Dealing with manufacturers around the globe, the company has a worldwide vision.

Broch International's scope is diverse, ranging from repairs, maintenance and aftersales to OEM packages, which complements KOSO Kent Introl's own industry-leading OEM services. The relationship developed following an inward trade mission, where both parties realised the great potential for collaboration.

The Partnership/Agreement

The partnership involves Broch International supporting KOSO Kent Introl's installed base as assets and Oil & Gas developments come on stream in the region.

KOSO Kent Introl will strengthen Broch International's offering with our first-class technical expertise and support for the growing

demand in the region. Coupled with our mutual commitments to safe solutions and ethical practices, the partnership will be the foundation for what is set to be strong emerging market.

What This Means For KOSO Kent Introl

"Following a successful trade mission and several discussions, we are pleased to establish ourselves as Broch International's Partner. Broch will provide a local support for our presence in Kenya, Tanzania and Uganda, and we will simultaneously bolster both our efforts to be the market leader across Sub Saharan Africa." Stuart Billingham, Sales Director.

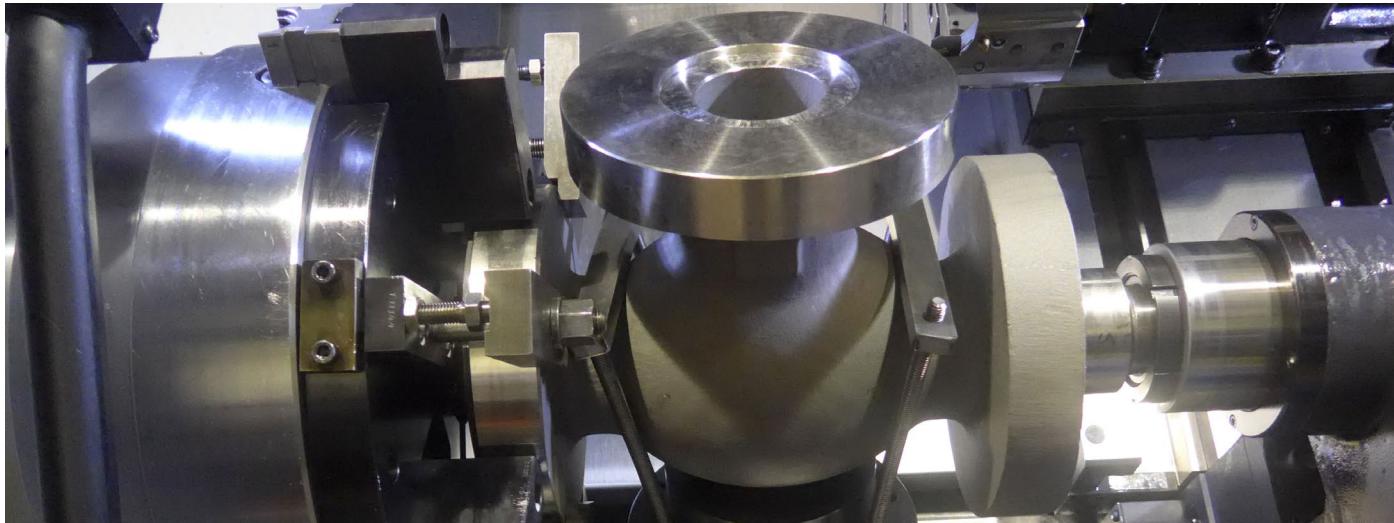
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YPS Langley Valves manufacturers of Nickel Alloy, Duplex and stainless steel, gate, globe and check valves



For over 45 years, YPS Langley Valves has been a manufacturer of Nickel Alloy, Duplex and stainless steel, gate, globe and check valves. We are also a major International Distributor for Velan, Neway, OMB Bonney Forge plus our own Langley Stainless Steel valves.

All of the materials manufactured by YPS Langley Valves are sourced through approved suppliers who must comply with our Quality procedures based on the British Standard ISO 9001:2015 plus our PED accreditation. For high integrity valves, approximately 90% of our castings are sourced from UK foundries. The remainder, usually Titanium or Zirconium, are sourced from international suppliers. The latest addition to our list of available materials is Nickel Aluminium Bronze.

Our manufacturing portfolio includes gate valves to API 600/ISO 10434, globe valves to BS1873 'T', 'Y' and Angle designs. In our extensive Check valve range we provide Swing, Dual Plate, Nozzle, Piston and Ball Check valves to BS1868 or API 600. Also we supply Cryogenic and Bellows sealed valves. Recently we have added full and reduced bore Floating Ball valves to our range. Many of our valves are specified for extremely corrosive or hazardous service condition therefore we offer materials meeting ASTM E446 levels 3,2 and 1, depending on the criticality of the intended application.

The standard production sizes for our gate, globe, check and ball valves range from 15mm up to 600mm. Through Langley we also offer a bespoke service where we can produce customised exotic valves designed to meet clients' specific requirements. The synergy between our stocking and manufacturing businesses means shorter lead times for our clients and we are able to despatch products worldwide efficiently once satisfied with the quality and performance of our products.

We have already mentioned we are supplying valves for specific, and in some cases severe applications, it is therefore reasonable that End Users will require enhanced testing to confirm the suitability of the product being supplied. Our in house Specialist Testing Centre, with appropriately trained personnel, can offer a wide range of searching tests helping businesses adhere to exacting social and environmental responsibilities. These include Cryogenic Testing to minus 196 Deg C. Elevated Temperature testing to +700 Deg C. Emission Testing, Penetrant Examination and Positive Material Identification.

YPS Langley Valves has established a reputation for Stocking one of the most comprehensive ranges of high quality Stainless Steel and Duplex valves in Europe. Our range consists of Gate, Globe and Check valves from 15 mm up to 500 mm in a wide range of materials, Pressure Classes and a variety of end connections. All of which are from high quality approved manufacturers used by many leading End users.

Our dual strategy as a Manufacturer and Stockist, allows us to play a major role in resolving urgent maintenance plant breakdowns, plus supporting last minute shutdown requirements by our ability to convert a stock valve to meet almost any End User specification worldwide.

Whether a client requires a sophisticated conversion such as cryogenic or Bellows sealed valve to simple part or trim changes, we can facilitate all of these modifications in-house within short timescales and fully tested. Velan, Neway and OMB have audited and approved YPS Langley Valves as an 'Approved Workshop' for their valves in recognition of the quality of valves we supply.

End users of our products include Shell, BP, Exxon, Mobil, Ineos, Chevron, Sasol and Conoco-Philips. We are regularly required to manufacture and despatch products to petrochemical plants, oil refineries, power plants (including nuclear) and off-shore operations worldwide including China, Africa, Australia, the Middle East and Europe.



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People Matter at Maher



The Maher team

Maher Limited is a stockholder and processor of high-strength, high-performance alloys. Maher holds a comprehensive range of nickel and copper-based alloys as well as special stainless steels including K500, 400, 625, 718, 725, 286 and DEF STAN 833. Maher's customer base spans a number of industries including Oil and Gas, Power Generation, Aerospace and Naval and Marine. Supported by both customer and industry approvals, Maher supplies into the full supply chain, from the OEMs to valve, pump and fastener manufacturers. Having been founded in 1932, the company boasts many years of experience and in-depth understanding of how the specialist materials it supplies behave.

One employee with lots of experience is Ellen Chibi who works in Maher's Naval & Marine sales team. She confirms: "*I have worked at Maher for 27 years (longer than many of our colleagues have been alive). The company has grown in so many ways, not just physically, from our smaller premises in the centre of Sheffield to our group sites in Sheffield, Rotherham (at the AMP) and on the Isle of Man, but also in terms of what we do and how we do it (and how we can do it better). I work on the premise that 'if you don't learn something new every day, you are doing it wrong' and that certainly applies to why I've stayed at Maher. With this diverse, energetic team, everyone can learn.*"

Whether it be international or domestic, Maher's overall strategy is to form long-term, mutually beneficial relationships with its customer base. Whilst Maher has many local representatives across the world, the head office in Sheffield forms the base of all operations. Through many long serving, experienced employees with specialist skills and knowledge, Maher can maintain the same high standard of service across all markets. Maher's Sales Director for the Asia-Pacific Region, John Fenton has worked for the company for over 30 years. He says: "*I have always been impressed with the company continually moving forward and investing to improve products, customer service and quality. The relationships built up with customers and colleagues over the years have made my job both interesting and also very rewarding.*"

The company has three core values: **People Matter. Profit with Integrity. World Class Service.**

In challenging times such as the looming potential 'no-deal' Brexit and the uncertainty it brings for many businesses across the country, Maher believes that '*People Matter*' even more. The business is confident it has the right people to make the transition as smooth as possible.

Maher's shipping team leader, Glynys Capewell, who has been with the company since 2003 states: "*I have seen many changes over the years as the company has expanded from principally a stockholder to include manufacturing, machining and special products. The world of exporting and importing has many challenges, the biggest one this year will be to ensure we are able to continue supplying our customers regardless of the result of the forthcoming Brexit deal.*"

Maher formed a Brexit committee many months ago to discuss possible scenarios. Now the 29th of March is quickly approaching and exiting without a deal is becoming a real possibility, the business is stepping up its plans. The current actions mainly focus on understanding the terms on which Maher will deal with suppliers and customers, the administrative duties that will need to be performed pre and post Brexit, plus the resource required to support the changes ahead.

Maher will continue to closely evaluate the progress of the UK's negotiations with the EU but in the meantime the company's customers can be assured that Maher have a dedicated and experienced workforce, committed to ensure that the company offers continuity of service and supply to its customers, wherever they are.



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Advantages of Rotary to Linear transmission in SAMSON Ringo axial valves

In modern control processes, Globe valves are most commonly used either straight, step or angle. The main advantage of these valves is good control working with high pressure drops.

The pressure drop is related to the geometry of the valve, that dissipates energy in the flow of the fluid circulating through it.

Part of the lost energy dissipates in reducing pressure and increasing velocity but some dissipates in vibration, noise and fluid turbulence.

Globe valves have different designs and solutions to prevent the energy from dissipating in the form of vibration and noise, which can become harmful to the process or material. However, regarding turbulence and loss of energy, they are not very efficient because of their complex geometry and lack of "aerodynamic" design.

The axial valve has a more "aerodynamic" geometry with the main objective of reducing energy loss through turbulence, so that for the equivalent size globe valve, the axial valve can obtain greater flow for the same pressure drop. This results in a reduction in weight, size and cost of product.

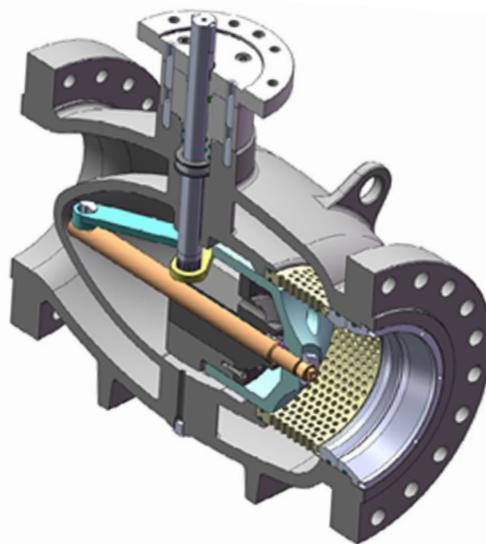
The complication of the axial valve is the movement transmission system from the actuator to the closing member. The simplest designs use linear-to-linear transmission systems by means of gearing, in which all the necessary force to move the closing member is generated by a linear actuator.

This article presents a rotary-to-linear design alternative that provides a mechanical advantage, thus reducing the force required by the actuator with a consequent reduction of actuator size and cost.

Brief Description of the Axial Valve

The axial valve's regulating function, other than the axial movement of the closing member, is identical to globe control valves with a multi-orifice cage. In this type of control valve, the flow control to create the required pressure drop is obtained by opening a series of holes with a specific area.

Due to the valve's construction, the axial valve closure is guided by the valve shaft and not by the cage. In this way an axial valve can be used for fluids with particulates since there is no risk of blocking the clearance between plug and the cage. In addition, it is possible to suit applications without a cage where it is intended to maximize the already greater flow capacity of the axial valve.



Section of a single-stage axial regulating valve

Motion Transmission System

The unique rotary to linear transmission system designed by SAMSON Ringo, is composed of a crank system that connects the valve shaft to the axis associated to the rotary actuator.

The valve shaft has a linear movement in the direction of flow while the actuation shaft has a rotating, quarter turn (90°) movement. This rotary movement is commonly used for other types of valves such as ball or butterfly valves.

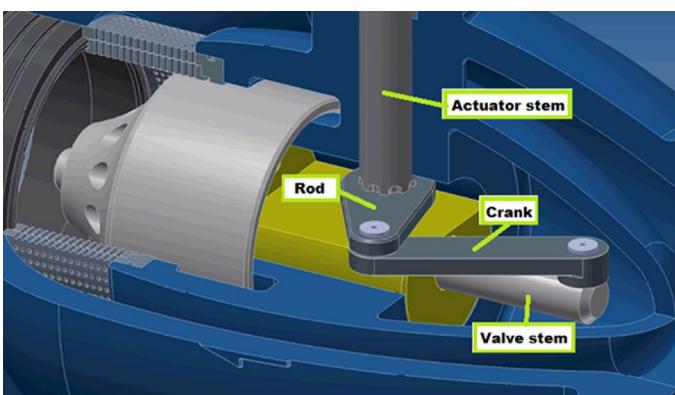
The main advantage of this transmission system is the reduction of the torque required by the actuator when the force generated by the fluid is at its maximum. Also, the a distribution of forces across the elements of the linear to rotary transmission system results in a lower force/torque required by the actuator.

Conclusions

Due to the mechanical advantage gained by the crank system the rotary to linear transmission system has lower torque requirements when the valve is in the closed position when fluid force is at its maximum.

The force for rotary to linear mechanism is reduced to values less than half those required by a linear-linear mechanism.

Thanks to this unique transmission system it is possible to select a smaller actuator for the valve than with alternative systems, with resulting torque, size, weight and overall economic benefit in the final assembly of axial valve and actuator.



Main components of the rotary to linear transmission



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SMART IN FLOW CONTROL

AVA open new UK Facility following a successful 2018



A regular order of 60-110 series actuators ship out

Following a very successful 2018, AV Actuators (AVA) are opening a new facility here in the UK to allow its next stage of development. AVA has spent the last 2 years working with new customers and the factory to develop its range of electric actuators. Working with customers all around the world in a wide variety of applications, AVA has taken its time to listen to the customer feedback and now believes that 2019 will see the range become the most complete offering to date.

AVA this year will launch new products which the team feel will complete its offering from 20Nm through to 400Nm which covers the majority of its customers requirements. The full range will include on/off, modulating, failsafe, modulating failsafe, hi speed, modulating hi speed and timer functionality.

Expanding on the hugely successful 20 series, AVA played an integral part of developing the 60-110 series which has been well received in the market, AVA have once again been involved at the R&D stage of the new actuators that are coming out of the factory.

This year will see the new 50 series launched, a new 50Nm actuator in the same high-quality design as the 20 and 60-110 series, offering all the same great features and of course offering a very compact 50Nm actuator. This year will see the new 50 series launched, a new 50Nm actuator in the sam high-quality design as the 20 and 60-110 series, offering all the same great features and of course offering a very compact 50Nm actuator. New features will also include an LED status light which will in turn be implemented in a cover design change on the 20 and 60 -110 series. The LED status light will give a visual indication to the customer locally of the actuator status. The 60 series will become the 80 series (80nm) to give a better selection on torque outputs.

New features will also include an LED status light which will in turn be implemented in a cover design change on the 20 and 60-110 series. The LED status light will give a visual indication to the customer locally of the actuator status.

The LED light on the actuator housing is another indication of AVA's ability to listen to customer demand and implement the requirements of the customers, quickly. The new wave of products, will be the 200-400Nm series replacing the current offering which is somewhat dated albeit very compact and in keeping with the company product range.



AVA took centre stage at this year's Valve World stand

The new series will take the range to the 400Nm mark in the design our customers have come to love.

Following the success in 2018 and of course, the new customers established at Valve World 2018 as part of the BVAA pavilion, AVA are now set to open the new UK facility. AVA has established new distribution channels around the globe including Russia, South Korea, Romania, Netherlands, Turkey, South Africa, Denmark and USA and now the time is to move to a new home. The new facility will house the ever-growing stock holding to support the UK sales team but also allow the AVA USA team to make use of the large stock held.

The new facility will allow for assembly and testing of the actuators later this year as we hold part components to finish the process of assembly in the UK. We will also have a new R&D department to work daily with the factory to continue the improvement and development of the actuators including the functionality through our firmware.

Finally, AVA secure major partnerships with export accounts around the globe, with the USA being a particularly successful area for the team. A major partner has been secured following 18 months of negotiations, testing and factory audits.

The agreement and partnership will see 1000s of actuators sold each year. The team will be growing in numbers this year as AVA electric actuators are used more and more around the world. AVA will again be busy this year with trade shows here in the UK and also at shows in Chicago and Houston, Texas in the USA.

Progress is also being made with the sales and distribution in the USA via AVA USA which is also due for expansion this year. Exciting times for the young, dynamic team behind the AVA electric actuator range!



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ISO/DIS 22109 Industrial valves — Gearbox for valves



What is it?: This document provides basic requirements for gearboxes to operate industrial valves for manual and automated on/off and modulating duties, this includes manual override gearboxes. It includes guidelines for classification, design and methods for conformity assessment.

It does not cover gear systems which are integral part in the design of valves and subsea gearboxes.

Why is it important?: This is a draft for public comment of the new ISO for Gearbox for Valves. This work was originally started in CEN. The CEN work item was WI 00069189 and this was the responsibility of TC69/WG1/SG10. Now is your opportunity to make comments on the proposed ISO text.

Supersedes: This is the draft of a new international standard.

ISO/DIS 5209 General purpose industrial valves - Marking - Draft for Public Comment



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.

When specified as a normative reference in a valve product or performance standard, this document is considered in conjunction with the specified requirements of that valve product or performance standard.

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

Why is it important?: The main changes are the following:

- inclusion of Clause 2 for normative references and Clause 3 for terms and definitions;
- updating of Clause 4 giving the requirements for mandatory, supplementary and other markings;
- in Table 1 listing valve markings, addition of item 20 “Allowable differential pressure”, item 21 “Closing direction” and columns 3 to 5;
- inclusion of a new Clause 5 giving details of marking.
It has been aligned as closely as possible with EN 19.

Supersedes: Will potentially update the 1977 standard

Severn applies valve intelligence to solve Leman Delta challenge

Overcoming technical issues in North Sea platform simplification

Severn Unival, the advanced engineering services division of Severn Glocon Group, has designed and manufactured three highly-engineered choke valves for Shell's Leman Delta platform.

The rig is being transformed from Normally Attended to Normally Unattended Installation status as part of its ongoing decommissioning process. This raises new technical challenges, since it needs to perform consistently without the need for unplanned maintenance.

'Valve reliability is a critical success factor'

To reduce the velocity of the process medium and minimise erosion, some sections of pipework on the platform have been increased from a 10" to 12" diameter.

As the platform's long-term valve maintenance partner, Severn Unival was commissioned to replace three 10" choke valves with 12" alternatives that could easily be installed in the new system. The valves also needed to meet new performance targets without requiring manual intervention between planned maintenance windows.

Severn's solution was to switch from a 10" angle to a 12" 90 degree globe design, which meant the valves could be installed without the need to change the orientation of actuators. The valve trims have been manufactured from Tungsten Carbide to enhance their durability.

For added assurance, a Super Duplex trim guard has also been incorporated. This technique has previously been approved on valves Severn Unival devised for Statoil, and is proven to enhance the durability and lifespan of valves deployed in extreme environments.

A further challenge Severn Unival faced was reducing the risk of fugitive emissions. Traditionally, on a Normally Attended platform, manual adjustments can be made to tighten the valve stem and seal as necessary during routine management.

The new platform status meant measures needed to be taken to significantly reduce the likelihood of any stem/seal damage that could result in leakage. To achieve this, Severn Unival's engineers initially planned to hard-face the valve stems with a Tungsten Carbide coating to reduce vulnerability to damage.

However, since this material is porous there was some doubt over whether the valves would pass the ISO 15848-2 type test for fugitive emissions, where helium is used as the test medium.

Instead, an advanced, non-porous surface coating from Hardide Coatings was used. Testing verified that the valves complied with the stringent ISO 15848-2 criteria.

The valves have now been dispatched, ready for the simplified Delta platform start up in March 2019.

Adam Eckersley, Technical Engineering Manager at Severn Unival, says a longstanding relationship and good collaboration with Delta's maintenance and project teams was central to the success of this job.



"We have more than a decade's worth of repair intelligence data from failure analysis of OEM valves on the Delta platform," he explains. "This meant that we were quickly able to predict the technical challenges that these valves would need to overcome, and develop robust solutions."

We have a strong partnership with Delta's maintenance and project teams, so the whole process ran seamlessly and we're all confident that the valves will perform reliably without the need for unplanned maintenance."

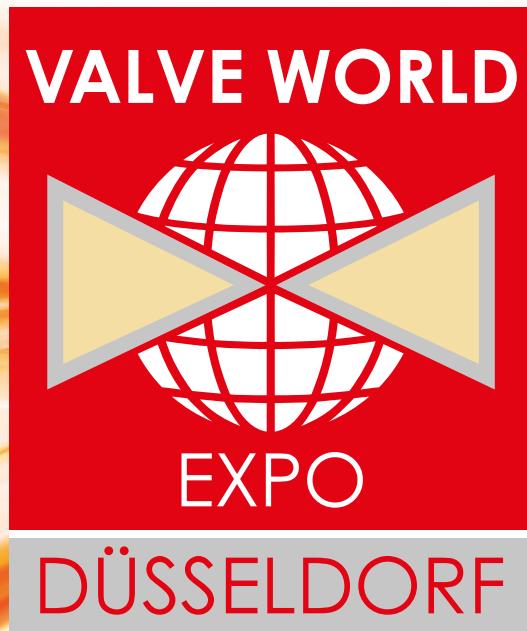
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Emerson's Mobile App for Processing Plants Upgrades Access to Critical Data for Better Decision Support

New alert customisation and expanded OPC support in DeltaV™ Mobile bring improved notification and third-party system monitoring

Emerson has enhanced its DeltaV™ Mobile app to ensure plant personnel have faster access to process information and to help organisations tailor the notifications personnel receive. DeltaV Mobile - a mobile app that provides read-only access to a plant's distributed control system and operation data - now offers improved customisation and access to third-party systems in one app. DeltaV Mobile users will be able to more quickly respond to important process information and changes, including held batches, production bottlenecks and potential safety issues.

Custom notifications provide personnel across the organisation with fast access to essential information, including batch status, safety instrumented systems bypasses, key performance indicators, or any other process parameter they want to monitor. These notifications are customised to individuals, ensuring personnel such as process engineers and supervisors are notified on-demand of information relevant to their job, but do not create additional control system nuisance alarms or notifications that add unnecessary distractions for control room operators and other personnel.

DeltaV Mobile also enables teams to customise how they handle notification escalation and response. Notification escalation paths now include user-specific time delays, reminders, and limits for each stakeholder in the organisation. Users can

claim ownership of notifications to clearly communicate to plant personnel who is investigating the problem and sparing others, particularly supervisory personnel, from the distraction of notifications for problems that are already being investigated.

New Open Platform Communication (OPC) browsing makes it easier to create watch lists and custom alerts from any OPC Classic data source including from historians such as the OSIsoft PI System, third-party control systems, and PLCs. In addition, a new bulk editing tool allows users to bulk-create lists (with or without notification preferences) in spreadsheet applications, making it easier to create personalised watch lists and alarm lists.



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Anti-Cavitation Valve Trim Helps Improve Plant Availability and Safety

Emerson's Fisher™ Cavitrol Hex severe service valve trim reduces or eliminates cavitation to improve rotary valve performance and extend operating life.

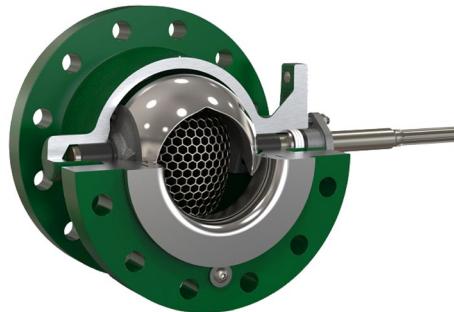
Emerson's Fisher Vee-Ball™ Rotary Control Valves are now available with Cavitrol™ Hex Anti-Cavitation Trim to reduce or eliminate vibration caused by cavitation. The Cavitrol Hex trim option provides improved performance in severe service applications while maintaining valve efficiency, resulting in increased safety.

Cavitation is the formation and collapse of vapour bubbles (cavities) in liquid flow streams caused by changes in pressure and velocity. There are three primary negative side-effects of uncontrolled cavitation in control valves: excessive vibration, equipment damage and deterioration of flow control.

Vibration can damage equipment and shorten operating life. When equipment deteriorates, flow can't be controlled properly, negatively impacting plant availability, efficiency and output. Left unchecked, excessive vibration can create unsafe working conditions. The Cavitrol Hex Anti-Cavitation Trim substantially decreases vibration and reduces or eliminates cavitation to improve plant safety.

Cavitrol Hex trim is available on Fisher V150, V200 and V300 rotary control valves. It can be easily retrofitted into previously installed Vee-Ball valves after minimal modifications to the valve body. The trim option is available on Vee-Ball valves in sizes NPS 4 through to 12, providing high capacity for gas, steam and

liquids. To meet specific application requirements, a variety of metal and soft ball seal materials are available. Cavitrol Hex trim will not affect valve shut-off or valve temperature limits and does not influence the primary ball/seal interface.



The Fisher Cavitrol Hex trim option provides improved performance in severe service applications while maintaining valve efficiency, resulting in increased safety



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