

VALVE *user*[®]

ISSUE SEVEN

**ANNUAL
REVIEW IN
CENTRE
SECTION**

Hobbs

– Tomorrow's Valve Today

Mastergear

– Driving Industry

British Valve & Actuator Association



*SIL3 for
Fisher*



*HSP –
Service
Specialists*



*Emerson
acquires
TopWorx*



*Rotork's
New CVA*

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The bigger picture



Rotork actuators are the first choice for leading companies all around the world for one very sound business reason: **Lifetime cost.**



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It also matters that we can offer an actuator for every application, enabling customers to ensure total compatibility across an installation: no-one offers a wider choice of models.

Oh, and did we mention that we also lead the marketplace in technical innovation? Features that our rivals are now offering are our old specifications.



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

Your Valve User

Welcome to Issue 7 of BVAA's 'award winning' Valve User magazine! Right now we are in celebratory mood at BVAA HQ, as we have just recruited our 100th member – a significant milestone in our ongoing redevelopment.

As well as the usual exciting mix of new products announcements, industry news, application stories etc., this issue also includes, in the centre section, our latest Annual Review – a summary of just a few of BVAA's highlights in the previous twelve months.



by BVAA Director, Rob Bartlett

A reminder too that this magazine is intended to be a forum for users of valves and actuators, and we would welcome your views on all matters affecting the industry. For example, this issue includes a 'Your VU' piece from John Kett on the controversial subject of valve repair – a topic on many people's lips at the moment. Valve users - don't be shy, let us know what you really think!

Also enclosed is a floor plan for the forthcoming Valve Word exhibition in Maastricht, November 4th~6th. We have highlighted all the BVAA members' stands, and included contact details for all our members – we hope you find it useful, and we hope to see you there!



Finally, we're all now looking forward to the forthcoming BVAA AGM and Dinner Dance, which this year will be held at the prestigious Ettington Park, Stratford upon Avon, on Friday 28th November. Bookings are now being taken, and we recommend reserving your places early as we expect this popular event to sell out quickly! Our special thanks to Bettis UK for kindly sponsoring the Champagne Reception.



Did You Know?

As well a printed copy, VALVE user magazine is also available as an email attachment, and as a download from BVAA's website, www.bvaa.org.uk

Still More New Members!

Membership of the BVAA continues to grow at an impressive rate... *this month's new recruits include:-*



Hi-Flow Valves General Manager, Lee Vincent receiving his BVAA Member plaque from BVAA Director, Rob Bartlett



John Rees, Pegler & Louden



HS Pipeequipment Ltd: Steve Draper, Managing Director and Peter Everett, Chief Executive



Chris Richmond, MD Gee Graphite



Ian McDonnell, Business Development Manager, Smith Flow Control



Emma Newcombe at Steam Plant Engineering Ltd



BVAA welcomes users' views and articles. Submissions to rob@bvaa.org.uk



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AMEC Aberdeen

BVAA were delighted to be invited to hold a Desktop Exhibition on 22nd May at AMEC Aberdeen. These hassle-free events are an excellent way for suppliers and users of valves and actuators to meet together and discuss potential solutions to flow control challenges. They are also highly informative events for young engineers who may not otherwise be able to get 'hands on' with the products they specify.

BVAA

'Mad Hatters'



How far can you go wearing a BVAA Hat?

Well the other side of the world apparently! Pictured is Mark Thomas of Delta Valve NZ, who was with Rotork UK until he recently emigrated. The hat, probably fed up with the abysmal UK weather, followed Mark 'down under' shortly afterwards, and is certainly the furthest travelled hat so far. This issue's competition is simple. There is £50 to the charity of your choice if you can be first to identify precisely where Mark has been photographed. Answers – or requests for free caps – to rob@bvaa.org.uk

Congratulations to Martin Roach-Ellis of Ashworth Process Valves, who correctly identified that Jerry Hughes was pictured with a 1968 MGC Roadster in the last issue. A cheque for £75 was sent to

Marketing at Heaps

The BVAA Marketing Committee held its June meeting at Heap & Partners, Hoylake. In addition to discussing the usual topics, the committee also received a presentation on an exciting new industry exhibition, "Process Engineering Live" which will be held GMEX Centre, Manchester, on 10th and 11th March 2009. The committee was also able to get an idea of the amazing diversity of work undertaken by a leading UK valve distributor.



BVAA's Marketing Committee

Business Shield



As part of the recent BVAA Executive Committee meeting, Croners made a very informative presentation on the new Business Shield HR and Health & Safety service, available to BVAA members. Business Shield aims to alleviate member companies of a great deal of hassle and uncertainty when it comes to managing these aspects of their business, and the service is also underpinned by a Commercial Legal Insurance.

BVAA Chairman Bill Whiteley commented, "The new service is a comprehensive package, which should prove extremely useful to all of our members."



Note: Business Shield forms part of the standard BVAA benefits package, at no extra cost.

'y-nots', an intrepid team of Ineos employees, planning to undergo a Survival Challenge for the Anthony Nolan Trust, one of our favourite charities. See www.justgiving.com/y-nots for further details.





Poor Repairs are Putting Plant & Lives at Risk

John Kett, MD Kings Control Services Ltd



Having been in the Valve Repair business for almost 20 years, I have come across, and worked with, a very large number of valve repairers. Some were good, some were bad, and some I would not let repair my outside tap! In many cases the repairer's knowledge and quality of workmanship fell well short of what I would consider to be an acceptable standard.

People in this industry are all too quick to blame repair Technicians for any failures that may occur. My view is that argument can only go so far, as technicians should perform all repairs to an acceptable standard that they have been trained to achieve.

This leads onto a series of questions we as an industry must ask ourselves.

- What standard of training is available?
- What rules are there to ensure that a Technician has a good quality of training?
- What standards are the trainers & providers of training governed by?
- What is the correct equipment needed to carry out repairs correctly?
- Who inspects and polices these so called repairers?

For far too long now, inexperienced and unqualified technicians have been allowed to repair valves simply because they have worked alongside someone else – who is equally unqualified – but who has been doing it for longer.

Any mechanically-minded person can lap two sealing faces together and create a good enough surface that will not leak providing enough spring tension is applied and the valve will pass a 'Pop' test on a test rig.

Question is, has the valve been checked to ensure that it still conforms dimensionally to the original manufacturers tolerances, to ensure that should that valve ever be called upon to actually lift in anger it will do so, and safely relieve the required capacity to ensure that vessel it was designed to protect is in fact protected, along with the people it is designed to save from harm?

In the USA they have The National Board. Anyone wanting to repair certain types of valves has to pass very strict requirements to achieve a Valve Repair Accreditation known as the "VR" Stamp. This assures the customer that the repairer has quality systems, train-

ing and equipment that is of a very high standard and is regulated and periodically inspected by an independent body that knows what it is talking about.

The "VR" Stamp ensures that repaired valves meets applicable ASME code requirements for performance and relieving capacity.

As a Repair Company owner, I have invested thousands of pounds on training and equipment, to ensure we perform all our repairs to the highest standards.

We need to ensure that the UK has a nationally recognised accreditation scheme that all repairers must achieve before they are allowed to repair any Safety Relief valve.

I would welcome any moves to implement such a scheme, as I feel that there are far too many disasters out there waiting to happen because of incorrectly repaired valves just sitting there, waiting to fail.

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- Body/leak and lift testing

Suitable for end-users/plant operators, inspection engineers and contractors in all process/petrochemical industries.

Courses are held at various technical college and workshop locations throughout the UK. For scheduled public course locations and availability see the website below. Alternatively, contact Cliff Matthews directly on enq@matthews-training.co.uk or telephone 07732 799351.

Additional in-company PRV courses for up to 8 delegates are held on demand at client's sites.

www.matthews-training.co.uk

Territory presence means big business in China



The continued success of Weir Power & Industrial's China operation has enabled the Emerging Markets Team to establish a strong foothold in the territory. It's from this position of strength that the team can provide support to the Weir Power and Industrial group companies, maximising the opportunities in the region.

The importance of the Chinese operation is also highlighted by the recent high level strategic meeting which took place there in June. The operation is now looking at developing opportunities and initiatives for Weir Speciality Pumps and increased after market support services.

Since the launch of the Chinese sales office in 1998 and the manufacturing operation in 2006, the team has worked with Weir Power & Industrial facilities across the globe to secure a number of important contracts. More recently the team has helped the Group's



Weir Valves & Controls China in Suzhou near Shanghai

facilities secure contracts valued at approximately \$42M USD including:

Weir Valves & Controls France

- €25M, GNPC/Hong Yan He, Ning De & Yang Jiang NPP projects for Sebim Pilot Operated Safety Valves

Weir Valves & Controls UK

- \$2.0M USD, SINOPEC /Tianjin and Maoming Petrochem for Hopkinsons Gate Valves
- \$3.10 USD, CGNPC / Ling Ao II Nuclear Power Plant for a Batley Butterfly and Hopkinsons Spring Loaded Bypass Package

Weir Valves & Controls US

- \$6.0M USD, Dongfang Turbine Works of Dongfang Electric Power Corp. for Atwood and Morrill FFRCV solutions
- \$3.9M USD, Shanghai Turbine Works of Shanghai Electric Power Corp. for Atwood & Morrill FFRCV solutions
- \$2.5M USD, Harbin Turbine Works of Harbin Electric Power Corp. for Atwood & Morrill FFRCV solutions

The Weir Production System is also proving to be a key to the continued success in China, as have the quality standards that the Chinese operation employs. The organisation's processes, combined with the procurement training of employees, played a major part in the recent successful audit by Siemens of the Suzhuo facility.

Andrew Will Sales & Marketing Director of the Emerging Markets team said, *"Being able to offer customers a complete sales, manufacturing and after sales market support services solution, all from within the territory, is providing customers with the added value they demand."*

Having a local presence in the Chinese market is clearly valuable and is helping Weir Power & Industrial to establish a competitive edge in China.

Weir Valves & Controls UK, Tel: 01422 282000



THE FUTURE OF EVENTS FOR THE UK PROCESS SECTOR

Visit www.processengineeringlive.co.uk for more information



Image Source: NASA



Problems with Valves?

Peter Churm reports

There are many valve types and designs, and each has a particular suitability for certain industrial process applications. Correct

valve selection for the process application is vital to the safe and efficient working life of the valve and process plant.

Some valves have been installed in process plants and have operated for many years without any problems being encountered. Other valves have been troublesome or have failed in a short period of time – why is this?

The construction of some valve types is not always fully understood by the users; gate, globe check, plug, ball, butterfly, needle valves to name but a few, and valves with flanged ends, butt weld ends, socket weld ends, screwed ends and flangeless valves. Manually operated, gear operated or pneumatic, hydraulic or electrically actuated valves add to the variables available to users. Knowledge of valve types and their particular construction is vital to efficient and safe use in service.

Many valves were originally designed more than 50 years ago and have been manufactured and used continuously since that time. The introduction or revision of international valve design standards over the years has resulted in some design improvements being made, which in some cases eliminated potential safety hazards associated with some valve types. However many valves already in service have given no operational safety problems and remain unchanged.

Some examples of design changes that have removed potential safety hazards are the inclusion of anti blow out stems on ball and butterfly valves, inclusion of retention pin and screwed seat retainer on ball valves, removal of directly screwed bonnet retention on globe valves, threaded or pinned connection between stem and wedge in gate valves and the introduction of cavity relief provision in ball valves. All valves manufactured by reputable manufacturers now include these design improvements as standard.

There are, however, other factors that influence operational safety of valves in process plants. Among these are lack of knowledge of valve construction and lack of valve maintenance training among users of valves. Design and operation of all valve types should be an essential factor in the training of maintenance personnel.

In recent times, this situation may have improved, due to the PED statutory requirement that valves be provided with comprehensive operating instructions, which has ensured that the necessary technical information is available to users (in the European Economic Area). However, some examples of the creation of potential safety hazards during process plant modifications or maintenance include:-

- Removal or loosening of flange bolting on Ball valve split body connection
- Incorrect fitting of gland packing flange with operating stop on plug valve
- Use of welded in line valves that do not permit access to internal sealing components
- Removal of bonnet bolts instead of actuator retention bolts when removing pneumatic actuator from plug valve
- Use of 'cheater' pipe extensions on handle or gear operated valves.

Valve design, valve manufacturer quality assurance and on site valve maintenance are important factors in operational safety on process plants. However, in recent years there has emerged another factor that is influencing this important application area. This is the emergence of low cost valves from the far east. Some of these valve manufacturers are producing valves that are of acceptable quality, but many are unproven and may be of suspect quality.

The reliability of valves on process plants is a vital issue and it is known to be false economy to purchase valves on price alone. BVAA member companies manufacture valves of all types, sizes, materials and pressure ratings suitable for all process requirements with guaranteed quality – why risk going elsewhere?

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Appointment of Chief Executive Officer

Hardide plc, the provider of unique metal surface engineering technology, is pleased to announce the appointment of Dr. Graham Hine to the Board of Hardide plc as Chief Executive Officer.



Dr. Hine has a proven twelve year track record in Chief Executive and Chairman roles where he has significantly grown shareholder value in technology-based companies in the advanced electronic materials, semiconductors and sensors industries.

He joins from P2i Limited where he was Chairman and Chief Executive of the Ministry of Defence technology spin-out from Porton Down. At P2i he oversaw the creation of the world's leading hydrophobic surface enhancement company.

Commenting on the appointment, Robert Goddard, Chairman of Hardide plc, said: *"The Board is extremely pleased to welcome Graham Hine as Chief Executive Officer. Graham brings a powerful combination of technical, commercial, financial, SME and blue chip experience. He is an entrepreneurial leader with the technology background, experience and attitude that can take Hardide on to the next level. He has a proven track record in unlocking the potential of innovative technologies and in building strong management teams to deliver extraordinary shareholder value. We welcome him to the Company and look forward to working with him to build on the solid foundations that have been established in Hardide."*

For further information:
Hardide plc
Tel: +44 (0) 1869 353 830



Emerson appoints Stuart Young

Emerson Process Management announces the appointment of Stuart Young as Sales Manager, Upstream Oil & Gas, based at Emerson's recently opened offices in Dyce, Aberdeen. Young joins the locally based team of oil and gas specialists with the responsibility to manage the Aberdeen Upstream Sales team to ensure the highest levels of sales, service and support are maintained to customers across the oil and gas industry.

"Stuart is a high profile figure in our industry and we are delighted that he will be leading our Upstream team," said Mark Dutton, General Manager, UK & Ireland, Emerson Process Management: *"We have recently seen a significant increase in project awards in the Aberdeen oil and gas industry, and our strengthened team will provide customers with a more localised and totally integrated service."*



Stuart Young - Sales Manager

Young joins Emerson from Invensys where he was formerly Principal Account Manager with Process Systems. Until recently he was an active committee member of the Institute of Measurement and Control (EoS section) and the EIC (Energy Industries Council). Young is also well known for being a staunch advocate of FPAL (First Point Assessment Ltd) and in particular vigorously promoting the benefits of its Performance Feedback and Supplier Benchmarking processes.

"This is a great time to be joining Emerson," said Young. *"My background and experience have provided me with a clear vision for increasing cross divisional sales of the entire Emerson portfolio, utilising the industry-leading PlantWeb® digital plant architecture and innovative Smart Wireless products and solutions."*

Emerson Process Management continues to expand the resources available at its Dyce, Aberdeen offices which now include sales, after sales service, training and project engineering functions. The offices are shared with METCO – the specialist gas industry metering and measurement services supplier, which is also part of Emerson Process Management.

Emerson Process Management
Telephone: 0870 240 1978

Go with the Flow

By Peter Everett, CEO of H.S. Pipeequipment

Valves play a critical role in the construction, control and safety of operations. Increased investment activity and changes in the location and size of projects are creating increased challenges for procurement specialists within the industry. In addition, fluctuations in commodity prices and currencies and fast tracking of investment programmes are affecting the availability of materials.

For the procurement manager, the loss of skills from the UK engineering sector compounds these pressures. As a result the need for service companies such as valve stockists and distributors is increasing.

The UK stockist and distributor today now has to be a service specialist, not only with regard to the supply of valves, but also with regard to services in logistics, engineering, actuation, project management, expediting and documentation. Health and Safety concerns and the need for traceability are driving the need for extensive documentation of the procurement, manufacturing and testing of valves.

Whilst the valve industry is not normally associated with technology, changes in operating environments have resulted in the use of more sophisticated designs and materials. An experienced distributor must therefore provide balanced advice on materials as well as the products themselves.

Despite recent investments in Valve Manufacturing plants and foundries, most valve manufacturers still have full order books. This has meant that delivery periods are still at historical highs. Gone are the days when engineering contractors could expect ball valves in four to six months. Now clients have to consider valves not just as items requiring expert evaluation but also requiring proactive planning and sourcing.

H.S. Pipeequipment (HSP), one of the UK's largest valve distributors to the Oil, Gas and Petrochemical industry,



has been developing their portfolio of products and services to meet this challenge.

In terms of products, the company has doubled its inventory to over £5m; whether it's a small-bore forged valve or a large trunnion mounted ball valve, the company recognises the importance of a comprehensive inventory. The company stocks a complete portfolio of products including: Bonney Forge, Audco, Maxseal, Crane Stockham, Hobbs and Larsen and Tubro and represents specialist world leading manufacturers such as OMS Saleri and Orton.

The company has three branches; the Aberdeen office supports the UKCS, the Teesside branch services the UK onshore petrochemical sector and the Newbury office supports the global Engineering Contractors in the London Area. In this way the company is able to provide support to the needs of customers in all parts of the Oil and Gas industry.

Recent changes within HSP and the ongoing development of staff and processes have ensured that the company is continually developing and growing with the market. An example of this is the monitoring and improvement of on-time performance at the Aberdeen branch to over 85%.

As demands and standards in the industry increase, distributors can play a pivotal role in the Oil and Gas Industry by providing support as well as products. The challenge for distributors is to improve their services and so ensure they are relieving the pressure in the industry.

For more information regarding H.S. Pipeequipment and their bespoke services please visit their website www.hsp.co.uk, or alternatively call +44 (0) 1635 201329.



HSP: over £5m of inventory



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BEL VALVES

BEL Valves is a leading supplier of Gate, Ball, Globe and Check valves in sizes up to 42" and pressures up to 15,000 psi for Subsea, Topside and Onshore oil and gas applications. The products are supplemented by a range of actuators and controls.

A recent addition to this product portfolio is the E-Ball Valve, a double block and bleed all metal sealing eccentric ball valve.

BEL has a vast experience in design of products for Deepwater, High Pressure and HIPPS applications, working with all leading Contractors and Oil & Gas Companies. BEL currently have subsea valves hyperbarically tested to 3000 meters and in service at depths up to the 2200 meters.

BEL Valves

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www.belvalves.co.uk





Rotork's CVA heralds new age of electric actuation for process control valves

Rotork has launched a revolutionary new electric actuator for the operation of process control valves. The Rotork CVA range provides continuous, repeatable modulating control with a programmable fail to position option. Operating on an industry-standard 4-20mA control signal or digital bus, the resolution, repeatability and hysteresis performance of the CVA is quoted at <0.1% of full scale, making it suitable for the most demanding applications.

Rotork's new CVA, mounted to a Metso valve

Available for the direct-drive actuation of linear or quarter-turn control valves, the CVA draws on Rotork's fifty years of experience and innovation as the world's leading designer and manufacturer of industrial electric valve actuators. The result is a range of actuators that demonstrates unrivalled control valve automation, combined with advanced, non-intrusive calibration and valve diagnostic technologies and the simplicity, user-friendliness and economy of electric operation.

Mechanical features include Rotork's well-known 'double-sealed' enclosure, whereby internal electrical components are permanently protected from the effects of the operating atmosphere. The IP68 dust tight, watertight and temporarily submersible (7 metres, 72 hours) enclosure is universal to all models in the CVA range, including those with hazardous area approvals.

The CVA is engineered to deliver high precision valve positioning and facilitate the tightest possible tolerances on the process variable, enabling process quality and output to be optimised. On loss of mains power, built-in super-capacitors allow the CVA to move the valve to a desired position, programmable as open, close or stay-put. Manual operation is also optionally available.

The CVA utilises a new variant of Rotork's innovative and well established 'non-intrusive' communication technology for actuator programming and adjustment. Actuator set-up and configuration is performed using a Bluetooth enabled PDA or PC running Rotork Enlight software which is freely downloadable from the Rotork website. Every CVA incorporates an onboard data

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logger, enabling operational data such as valve torque profiles, dwell times, actuator events and statistics to be downloaded for detailed investigation and diagnosis. After analysis, any required configuration changes can be uploaded into to the actuator.

Digital control bus connectivity options for the CVA initially include Hart and Foundation Fieldbus protocols, facilitating enhanced installed economy as well as giving the CVA the increased ability to dovetail into existing asset management systems. The all-electric CVA design also simplifies the process of retrofitting actuators onto existing valves. Rotork's specialist Site Services organisation is available on a global basis to provide comprehensive support in these areas, from advice and surveys to installation and commissioning.

When complete, the full range of CVA actuators will have a maximum rated thrust of 22.2 kN (5000 lbf) with a maximum stroke of 114.3 mm (4.5 inches), whilst quarter-turn actuators will supply a maximum rated torque of 677.5 Nm (6000 inch lbs), enabling the range to operate most control valve types and sizes. Actuators can be specified for single-phase AC or DC electrical supplies.

The launch of the CVA follows an exhaustive programme of market research, product development and field testing. Rotork's research has identified significant enthusiasm for the introduction of viable electric actuation in the control valve market. The benefits in the reduction of on-going plant running and maintenance costs are apparent to both plant operators and owners.

ROTORK CONTROLS LTD,
Tel: +44 1225 733200



CVA: Set-up is either via Bluetooth enabled PDA or PC



Inside the CVA500L (left) and CVA2Q



The TVT® Range
www.hobbsvalve.co.uk

Design Innovation
Leak Tight Triple Offset Butterfly Valves

Manufacturing Leadership
The Hobbs Valve TVT Range

Designed and Manufactured in the UK

Hobbs Valve – It's All About Lead Time

With the decreasing availability of engineering professionals, coupled with global demand for increased production of energy, the oil, gas and petrochemical industry is creating unique challenges for valve manufacturers. Although valve manufacturing only comprises around 5% of the overall purchase for new build and/or maintenance, the valve industry is continuously being stretched to unimaginative lengths in an attempt to deliver short lead times.

Lean manufacturing is by no means a new concept, but many valve manufacturers are struggling to keep up with demand.

Since its inception, Hobbs Valve has maintained its commitment to supporting the industries they supply by consistently delivering what could be deemed to be the quickest manufacture to order lead time available for Triple Offset Butterfly Valves.

With this lead time currently sitting at 12 ~ 16 weeks, it is with no surprise that more and more companies are turning to Hobbs and the TVT range of Triple Offset Butterfly Valves.

Hobbs Valve was founded when Alun



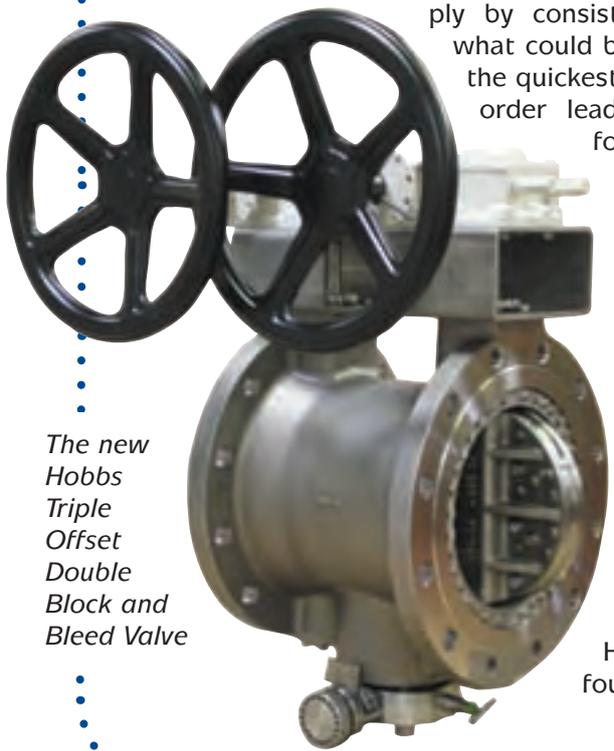
Hobbs recognised that the Triple Offset Butterfly Valve could not only be technically enhanced, but also that the complete customer purchase experience could be greatly improved.

Listening to the requirements of field engineers, Alun Hobbs was able to introduce innovation to the Triple Offset that previously had not been changed for over 15 years. The Triple Offset Butterfly Valve is inherently a torque seated valve and therefore one of the primary areas of innovative change was to introduce lower torque requirements that would reduce the overall cost and improve the capability of the valve.

This was achieved through the elimination of keys and pins strengthening the stem, coupled with a simplified innovative drive chain design that form part of the patented design.

What you see today is the outcome of hard work and determination to become recognised as the 'forward thinking company' delivering up to date innovation in Triple Offset Butterfly Valve technology.

With a range of valves now consisting of 2" ~ 42" 150/300 lb in most body materials and body styles, Hobbs Valve certainly are becoming a leading light in the manufacture of Triple Offset Butterfly Valves.



The new Hobbs Triple Offset Double Block and Bleed Valve

Efficiency Drive and World Concerns Aid Innovation

Midland ACS 70 series

New direct-acting solenoid improves flow with low power

Energy and fuel conservation has been one of the world's most talked about topics for a number of years. Whether it be the need to conserve fuel and increase the MPG from your car, or simply turning off the lights and appliances when you go to bed to save energy, companies, organisations and governments the world over are all pushing efficiency initiatives and their green credentials. This drive has stimulated the growth of innovations for UK based manufacturer Midland-ACS.

Utilising research into the marketplace and assessments of client demands their new 70 series valve has been engineered to provide customers with higher flow rates, while at the same time consuming less power than both traditional solenoids and competitor valves alike. Using 316 stainless steel in the body construction to offer maximum internal and external protection from liquid and gases, the 70 series is a direct-acting 3/2 hazardous area solenoid valve for the oil, gas and petrochemical industries.

Designed for actuator control the 70 series is available with connections from 1/4" – 1/2" NPT and is EExd IIC T6 with IP67 Ingress Protection classified for use in hazardous environments. Compliant with the ATEX directive and entitled to bear the CE mark, the valve is also IECex certified.

A key element of the design process was to deliver exceptional efficiency in terms of energy usage. With views for offshore usage and the power issues these



installations and vessels have regarding the amount of wattage they use, Midland-ACS set themselves the task to better a power consumption rate of 5 watts. Through various trials and tests a final power consumption figure of 3.5 watts at an ambient temperature of -50°C to +60°C was achieved, almost halving their original benchmark.

Compact, reliable and of increasing importance to offshore facilities and operations, lightweight at only 3.2 kilos, the valve design removes the potential for leaks and reduces the risk of hazardous contamination.

Available in 12v, 24v, 110v DC options and 24v, 110v, 230v AC options, this direct-acting solenoid valve has already been incorporated into a manifold solution and at time of writing Midland-ACS were into the late stages of testing the 250 bar hydraulic version to complement an ever widening range of Midland-ACS valves.

Midland-ACS,
Tel: +44 (0)1902 305678

If this was not enough, Hobbs have recently introduced a Triple Offset Double Block and Bleed valve all encompassed in one valve body. This product range has been successfully witnessed and tested by the UK's largest nuclear supplier for use on its steam and high temperature steam applications.

With the advantages of size, weight and cost benefits as a standard Triple Offset, the Double Block and Bleed also ensures that crucial double isolation in safety critical applications.

In such a complex industrial world, challenges are rarely simple, and require solutions that are innovative, safe and absolutely reliable. For that piece of mind or for any further information, please feel free to visit www.hobbsvalve.com, call +44 (0) 29 2086 1099, or alternatively visit Hobbs Valve at the Valve World Exhibition 2008 on stand N876.



Emerson's New Vertical I/O For DeltaV™ System Offers Greater Plant Lifecycle Savings

Emerson Process Management announces the release of the DeltaV™ VerticalPlus I/O carriers which extend the benefits of DeltaV vertical I/O to DeltaV SIS, providing flexible installation, increased I/O density, and better thermal management for both DeltaV and DeltaV SIS applications.

The vertical carrier orientation reduces lifecycle costs through lower installation, maintenance, and energy costs. Vertical I/O is easier to install and maintain because cables coming from the bottom of cabinets can be fanned out and terminated without multiple wire bends. This is consistent with current practices of delivering cables through the bottom of cabinets, especially in locations that have raised floors. Overall air-conditioned cabinet footprint is reduced with vertical I/O and it provides better thermal management and improved airflow in cabinets due to the vertical orientation of cards.

The redesigned vertical carrier supports simplex and redundant DeltaV SIS modules that communicate via a redundant safety bus, which is separate from the basic process control system (BPCS) communications. VerticalPlus carriers can also communicate secure SIS data via redundant SISNet Repeaters to other DeltaV SIS nodes on vertical and horizontal carriers.

A T-type DIN rail is all you need to mount the power/controller carrier into place. Bussed field power is now separate for each individual card. The DeltaV system's modular design approach allows you to add I/O carriers as you need them.

DeltaV digital automation systems are a core component of Emerson's open, standards-based PlantWeb® digital plant architecture which substantially reduces project costs, with customers typically saving over 30% on installed costs.



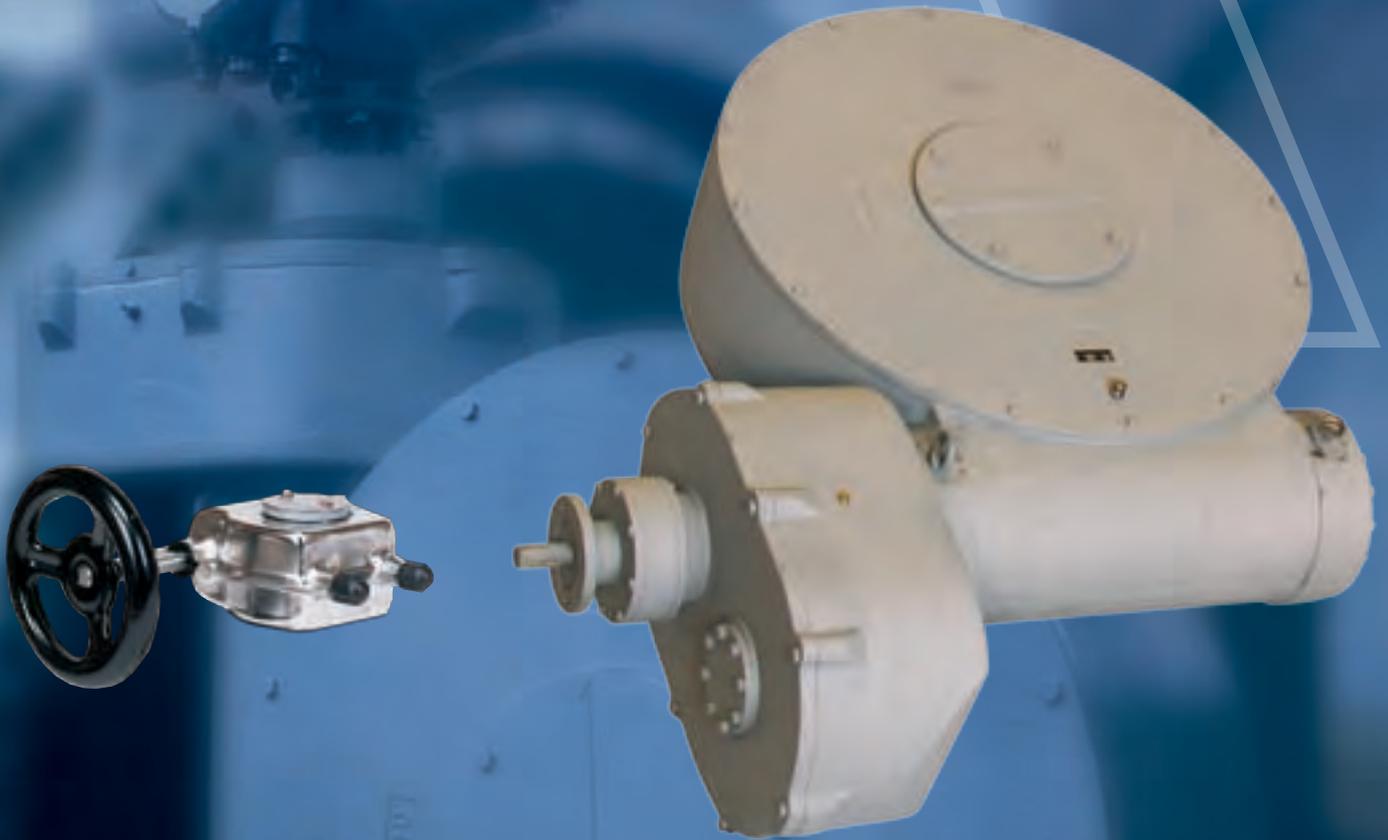
Emerson's VerticalPlus I/O carriers for the DeltaV digital automation system are easier to install and maintain while reducing overall energy costs

For more information, visit www.EasyDeltaV.com

DeltaV SIS is part of Emerson's smart SIS solution, which is an extension of the PlantWeb digital plant architecture, providing an integrated approach to complete safety loops — from sensor to logic solver to final control element. The Emerson SIS solution enables customers to implement safer facilities, improve availability, lower life-cycle costs, and ease regulatory compliance. The smart SIS system components include Rosemount® and Micro Motion® certified and proven-in-use devices, the DeltaV SIS system, SIL-PAC final control solution with Fisher® FIELDVUE® DVC6000 SIS controller, and the AMS® Suite: Intelligent Device Manager.

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New and Enlarged UK Service Workshop for Rotork Valve Actuators

As a result of a 75% increase in UK service workshop activity over the last 18 months, Rotork has invested in a brand new and enlarged service workshop facility at the company's main electric valve actuator manufacturing plant in Bath.

Designed in anticipation of further business increases, the new workshop is custom designed to efficiently facilitate the actuation overhaul, repair and upgrade activities performed, as well as the factory fitting of actuators to larger quantities of valves than was previously possible. Improved access to the light and airy workshop is directly linked to new craneage covering the majority of the floor area. New, enclosed storage has been installed, embodying computerised tracking of every actuator's status and progress through the workshop.

Work is performed on four fixed and two mobile bench stations, providing increased flexibility by permitting outside technicians to support the permanent workshop technicians during workload peaks. Each work bench is equipped with a PC terminal to enable reports to be generated without delay or interruption.



Work in progress in the work bench area of Rotork's new UK service workshop

A new production test rig has also been installed for performance testing of all actuators on completion of work. The increased workshop space also enables a new inside/outside technician to be employed for local service on a same day or next day basis, supported by a fully equipped service vehicle.

The overhaul, repair and upgrade activities performed by the workshop are an integral part of the life-of-plant asset management support offered by Rotork Site Services. In general, all Rotork electric actuator models up to thirty years old can be supported and on completion of work every repaired or overhauled actuator is given a new one year warranty and test certificate confirming that its performance is once again identical to the day that it was first built.

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British Valve & Actuator Association



www.bvaa.org.uk



“Trade associations are not usually regarded as particularly agile beasts, but once again BVAA has bucked the trend, and this year has again seen a number of important developments.”

The first and most significant of these was the change of Chairman, following the retirement of David Caines after six years presiding over BVAA. David was a *gentleman* in every sense of the word, and a real pleasure to work with during a series of steps that, although sometimes unpalatable to traditionalists, were necessary and certainly transformed the BVAA. The association has however been extremely fortunate to secure as successor Bill Whiteley, former CEO of Rotork plc, and our first Chairman from the actuation side of the industry. A BVAA vice-chair of long standing, Bill also brings extensive industry experience, and his considerable influence is already apparent - we all look forward to future developments with relish!

Our Technical committee stalwarts continue to provide the industry with the influence and protection it needs in facing the continuing challenges presented by technical standards and UK and European legislation. I am delighted to report that the working groups continue to be well attended and meet regularly, often at some extremely interesting venues, with our meetings chaired by some of the most likeable and knowledgeable experts in the industry. We also started a new *Repair WG* this year, which generated very high levels of interest both inside and outside the membership.

BVAA's Marketing Committee has gone from strength to strength, and it is aston-

ishing to note that the committee has, in just four years, gone from a start-up group to a central pillar of the association. The committee was responsible for the global circulation of nearly 60,000 BVAA DVDs since the autumn and also published a first class, award winning industry magazine - Valve User.

Our provision of training courses remains a very popular activity, and this year was our best ever in terms of number of attendees and profitability. As a *not for profit* organisation BVAA immediately ploughs any surplus back into services, so the industry continues to improve itself via training, in more ways than one. BVAA's unique series of in-house desktop exhibitions has also continued, allowing customers and suppliers to meet in a convivial atmosphere at the customer's own premises.



BVAA HQ - a meeting place for industry

The BVAA AGM, and more specifically the evening Dinner Dance, continues to provide the industry with an opportunity to come together and let its hair down, and once again this year's event was *‘sold out’* thanks to some jaw-dropping entertainment!



This year we also launched one of our most important new services – *‘BVAA Business Shield’* (see pg 11). This is a comprehensive package of HR and Health and Safety support services, designed to ease the burden on members, a philosophy we hope extend still further in the coming months when we have ascertained more precisely members' needs.



I am extremely grateful for the continued and much valued support throughout the year of the BVAA Steering Group, Executive Committee and indeed the wider membership. I would also like to record my thanks to Peter Churm, the BVAA Technical Consultant, for his continued support, and also to Sarah Edginton, who keeps the HQ running so smoothly.

A model trade association needs to be truly representative of the industry it serves, and I am delighted to report that our membership continues to grow at an impressive rate, and this year we crossed the magical *‘100 members’* threshold. Size is not everything however and high quality services are essential. I am therefore delighted to report that this year the BVAA was cited by the Institute of Association Management as an *‘exceptional example of good practice’* in two different categories - a very proud achievement for all involved.

BVAA's Steering Group (l to r: Joe Kelly, David Simpson, Andy Will, Bill Whiteley (Chairman), Laurence Kettle and Neil Kirkbride)

Peter Churm, Technical Consultant

“The difficulties we encounter in recruiting new standards experts from our industry continues and is a worrying trend that members must address.”

My support for BVAA members this year has included continued work on International (ISO), European (CEN) and British (BS) standards committees, managing the continuing changes in the support and services provided by BSI, plus support and guidance to BERR (DTI) and HSE on valve technical issues. There has also been the usual attendance at, and support for, the BVAA Working Groups, technical support to member companies and the regular writing of technical articles for Valve User and other industry magazines.



CMM at Hardide Coatings

Considerable effort has been dedicated to attending standards meetings at BSI, CEN and ISO this year, and the necessary work on standards continues unabated. CENTC/69 has now published 73 standards, 5 during the past year (see list opposite). A further 13 standards are at various stages of formal prepara-

tion. A number of previously published standards are now undergoing their 5 year ‘systematic review’ and since this can be an opportunity to propose and introduce considerable changes to the content, members must be on guard to protect their interests.

The difficulties we encounter in recruiting new standards experts from our industry continues and is a worrying trend that members must address. To ensure that member companies are aware of the preparation and revision of industrial valve standards, BVAA regularly and routinely announce and distribute draft standards to ensure the input of a wide cross-section of views, but crucially we also need members’ direct participation.

This year I attended, as the UK representative, the Plenary meeting of ISO/TC153/SC1 ‘Valves – Design, manufacture, marking and testing’ in New Orleans on 18th April, and the Plenary meeting of CEN TC/69 ‘Industrial valves’ in Paris on 9th June. My reports on the status of all work items covered by these committees have been regularly communicated to the BVAA membership.

The ‘Resource re-alignment’ initiative introduced by BSI continues, but I am pleased to report the recent appointment of Mr Charlie Duncombe as the BSI Secretary to the PSE/7 *Industrial Valves* committee (which I chair). Charlie is an experienced standards man, proving to be most knowledgeable and



helpful. One welcome outcome is that we now have a proposal to include support for the PVE/12 *Safety Valves* committee, which previously had seen its BSI ‘full support’ status withdrawn.

I regularly attend the frequent and very active BVAA Working Groups, where we would always welcome more members. Useful issues addressed lately include European directives, valve standards, statistics, plus a number of non-technical issues. The welcome trend for these Working Groups to meet at member company premises and other interesting venues continues.

The ongoing popularity of the BVAA ‘Safety Integrity Levels (SILs) training course has led to it becoming a regular part of the BVAA course programme. Additionally, the repeated requests that I receive for ATEX and PED directive support and guidance has prompted my creation of a one day PED/ATEX training course. I presented the first course in the spring – it was well attended and will be repeated again in the future.

Finally I would remind you all that my provision of technical information, advice and support to member companies continues, and this can involve personal visits to member company premises if desired. I also assure you of my continuing support during the coming year.

Photo: Emerson Hytork



CEN Standards published during the past year

EN 15081: 2007	Industrial valves – Mounting kits for part-turn valve actuator attachment
EN 558: 2008	Industrial valves – Face-to-face and centre-to-face dimensions of metal valves for use in flanged pipe systems – PN and Class designated valves
EN 736-3: 2008	Industrial Valves – Terminology - Part 3: Definition of terms
EN 12516-4: 2008	Industrial valves – Shell design strength – Part 4: Calculation method for valve shells in metallic materials other than steel
EN 15389: 2008	Industrial valves – Performance characteristics of thermoplastic valves when used as construction products

CEN Standards currently in preparation/revision

EN 12982: 2000 rev	Industrial valves – End-to-end and centre-to-end dimensions for butt welding end valves
prEN 1267 rev	Industrial Valves – Test of flow resistance using water as test fluid
prEN 15714-1	Industrial valves – Actuators – Part 1: Terminology and definitions of actuators for industrial valves
prEN 15714-2	Industrial valves – Actuators – Part 2: Electric actuators for industrial valves – Basic requirements
prEN 15714-3	Industrial valves – Actuators – Part 3: Pneumatic part-turn actuators for industrial valves – Basic requirements
prEN 15714-4	Industrial valves – Actuators – Part 4: Hydraulic part-turn actuators for industrial valves – Basic requirements
prEN ISO 10434 rev	Industrial Valves – Bolted bonnet steel gate valves for petroleum and natural gas industries
EN 10497	Testing of valves – Fire type-testing requirements
prEN 1074-6 rev	Valves for water supply – Fitness for purpose requirements and appropriate verification tests – Part 6: Hydrants
prEN 13774 rev	Valves for gas distribution systems with maximum operating pressure 16 bar - Performance requirements
prEN 1349 rev	Industrial process control valves
prEN 12569 rev	Industrial valves – Valves for chemical and petrochemical process industry - Requirements and tests
prEN 15389	Industrial valves – Performance characteristics of thermoplastic valves when used as construction products (To be ratified)

ISO/TC 153/SC1 standards in preparation/revision

ISO/FDIS 5208	Industrial valves – Pressure testing of valves
ISO/DIS 10497	Testing of valves - Fire type-testing requirements
ISO/CD 15761	Steel gate, globe and check valves for sizes DN 100 and smaller, for the petroleum and natural gas industries
ISO/CD 10434	Bolted bonnet steel gate valves for the petroleum, petrochemical and allied industries
ISO/PWI 28921	Industrial valves – Isolating valves for low temperatures application
ISO/PWI 28922	Pressure testing of valves for temperatures lower than -50 °C





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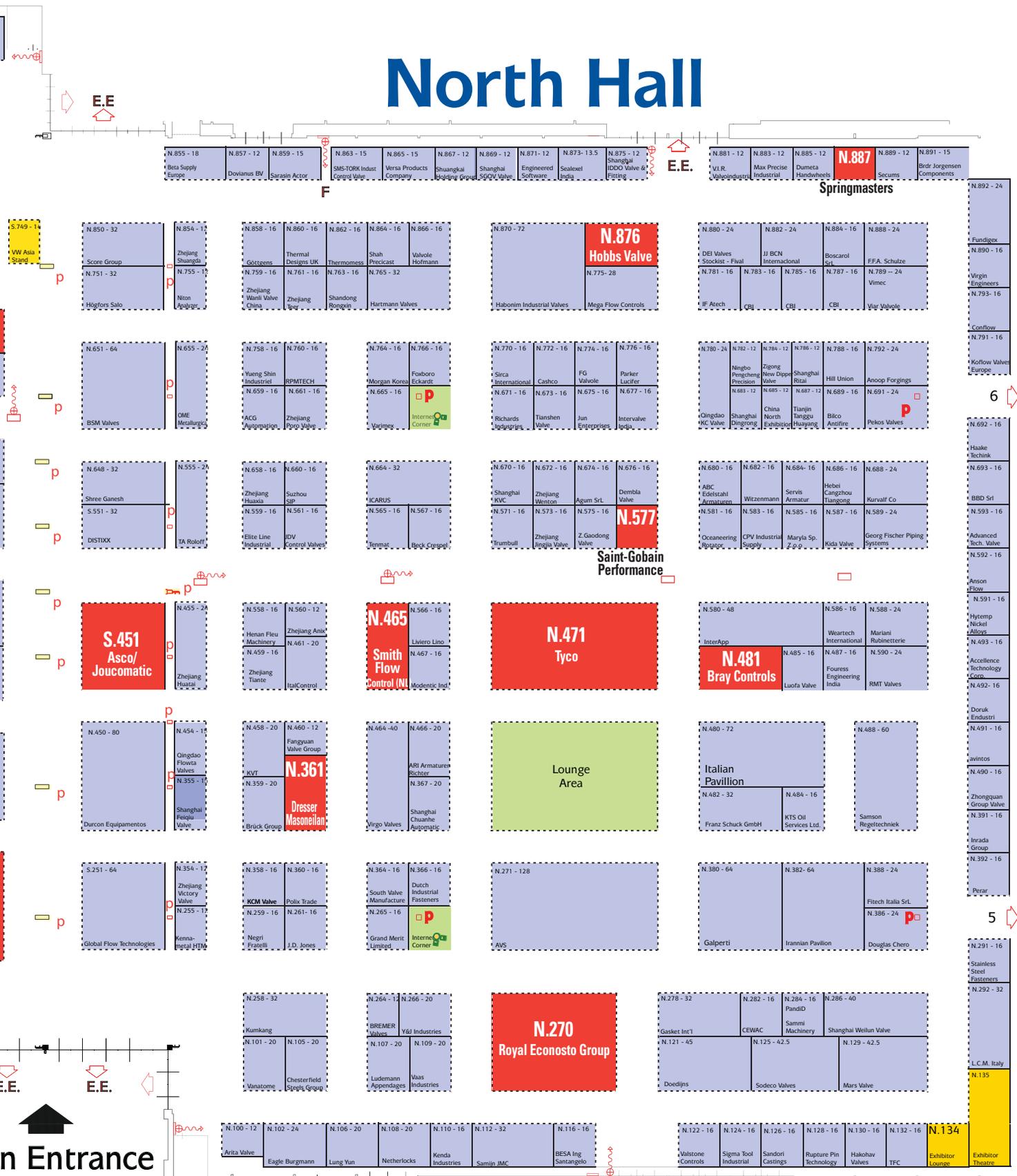
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Tyco Valves & Controls

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“Valve User has done much to raise the UK industry’s profile”

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See BVAA at Valve World, 4th – 6th November, Stand S907

This year we continued with the extension of the BVAA website, the most significant addition being the ‘Business Shield’ service (see News report). The site has again been subjected to continuous change throughout the year, but a total re-vamp is anticipated shortly.

The Committee has also continued with its PR campaign, maintaining a high profile for BVAA via press releases, presentations, articles in the trade press, etc. We have also taken out advertising in customer-industry magazines. For 2008/9, we are very much looking forward to attending major industry exhibitions across Europe, plus the new

Process Engineering Live event in Manchester in 2009. I would like to close by thanking my committee members for their continued attendance and support, and for maintaining their constant flow of new ideas. Finally our thanks to the BVAA staff, who so rapidly and enthusiastically convert our musings into new products and services.



BVAA's Marketing Committee at Flowsolve



MARKETING COMMITTEE

TRAINING

“Training courses have become hugely popular.”



SILs still cause lively debate

In the last few years, the BVAA Training courses have become hugely popular. This is a testament to their quality, as many bookings come on the recommendation by previous attendees to their colleagues.

Education and Training is a passion at the BVAA Secretariat, and thus we were delighted when the 2007/8 season proved to be our most successful to date with over 140 internal courses sold. A full range of courses were run at Ban-

bury in October 2007 and April 2008 – most courses being booked to capacity. We have also continued to deliver in-house courses around the country at customers’ own premises.

This year Peter Churm introduced a new course – an introduction to the ATEX and PED Directives, which still remains a complex issue for many in the industry, particularly newcomers to the subject. We also delivered ‘introductions’ to Valves and Actuators;

plus more in-depth courses on Control Valves and Safety Valves. BVAA continues to be indebted to our lecturing team,

who constantly update their presentations. The lecturers’ in-depth knowledge is a constant source of complimentary feedback from delegates.

The BVAA course on Safety Integrity Levels, delivered by the hugely knowledgeable Roger Stillman and Bob Smith, is now into its 6th incarnation, and continues to develop and evolve as each course is presented and as delegates raise more queries. It does appear that SILs are constantly misinterpreted by customers, but are here to stay. The BVAA course sets students in the right direction to offer customers solutions.

Booking forms for all BVAA courses are on the website, www.bvaa.org.uk



Photo: Black Teknigas



Geoff Newman lecturing on Safety Valves



BVAA Training Manuals



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ASCO NUMATICS

553

New 1/2" Stainless Steel Spool Valves from ASCO NUMATICS for Food, Chemical and Oil and Gas Applications

ASCO NUMATICS has expanded its range of pilot valves for the process industry with the introduction of the 1/2 Stainless Steel 316L version of the Series 553 Spool Valve. The new range meets the growing demand for pilot valves that are suitable for use in aggressive environments and explosive atmospheres.

The new valve is resistant to the cleaning products used in the food industry and the solvents and other compounds found in the chemical and plastics industries. The non-breathing design provides better environmental protection in clean areas and places where hygiene is paramount. Designed to provide long-term reliability under harsh operating conditions, the valves also offer high levels of environmental protection against the ingress of dust, liquids and other foreign matter. ATEX approval to category 2GD zone 1/21 makes them suitable for use in explosive



The new Series 553 Spool Valve from ASCO NUMATICS features a stainless steel body and has many applications in the food, chemical, pharmaceutical and plastics industry

atmospheres typically found in oil and gas applications both in refineries and offshore.

Central to the operating reliability of the 553 range is an environmentally protected construction. The use of stainless steel for the internal parts together with the non-breathing design and the valves' ability to operate on dry air means that they are ideal for use in sensitive areas. ASCO NUMATICS patented "T" seal arrangement adds to the reliability of operation, guaranteeing low stiction and breakaway friction even if the valve has not been operated for a long period.

Available as 1/2 tapped Gas, NPT & NAMUR, the 553 series of valves offer very fast response times and high flow rates (up to 3800 l/min). The air operated and 15/16" pilot valves are designed to directly operate large single or double acting cylinders, rotary actuators and intensifiers, or to provide pilot signals on much larger equipment such as process valve actuators.

The 553 valve offers all the benefits of a standardised design with both 3/2 and 5/2 versions available, both complemented by a wide range of automatic actuators, including solenoid or air piloted types with solenoid, air pilot or spring return. The valves accept any ASCO NUMATICS solenoid variant, including IP65 rated epoxy moulded units and those to UL and CSA standards.

ASCO NUMATICS, Tel: 01695 713600

ATEX approval to category 2GD zone 1/21 makes the new ASCO NUMATICS Series 553 Spool Valve suitable for use in explosive atmospheres in oil and gas applications



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Pegler and Louden strides ahead

Pegler and Louden, the specialist valve and actuator brand within BSS Industrial, has announced its membership of the BVAA (British Valve and Actuator Association).

The announcement follows two significant changes for BSS Industrial's brands: the appointment of John Rees as Brand Director to oversee all activity and the integration of Pegler and Louden into BSS Industrial's specialist offering.

Commenting on the BVAA announcement, John said: "With 100 years' of heritage under its belt, Pegler and Louden is no newcomer to the valve and actuation industry, and now sitting alongside three other specialist brands under the BSS Industrial umbrella, it has an exciting future ahead. We have a wider portfolio than ever before and newly appointed process valve technical sales engineers working with our industrial sales force.

"The BVAA champions best practice as well as the continued growth of the industry and these are qualities which Pegler and Louden promotes through its specialist service offering. The BVAA is vital as a collective representation of the industry and as a forward thinking organisation is the perfect match for

Pegler and Louden as it continues to move forward in a thriving market."

Previously the company's Regional Director for London and the South East and with experience of industrial valves through roles with Honeywell Industrial controls and Worcester Controls (now Flowserve), John has been tasked with driving BSS Industrial's growth in bespoke industrial sectors through the expertise and service offering of its four specialist brands: Pegler and Louden, Manor, AMS Pumps and Austin Stroud. John is responsible for coordinating a team approach and cross-selling the benefits of each brand to maximise opportunities across all industry sectors.

For further information log on to www.peglerandlouden.co.uk or call 0115 927 8288. BSS Industrial is part of The BSS Group plc, a market leading distributor to specialist trades.

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John Rees

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Changing gear for globalisation

What happens when a 100 year old company meets the challenges of a global market? Simple: you re-engineer the business with a new strategy, new product innovation, and global manufacturing facilities using Lean and Six Sigma.

But of course it's not that easy, as Ron Cowley, MD of Mastergear Group explains. "Our customers increasingly operate worldwide, so we have to be able to respond wherever they're located. That led us to review all our processes, and to develop a strategy of regional service on a global platform, with manufacturing in the UK, Italy, Germany, Czech Republic, USA and China."

A long-established brand, Mastergear is the world's largest manufacturer of gearboxes for valves, ranging from the very smallest (125Nm) to some of the largest (500,000 Nm) in the world. The company's valve actuators are used in applications from oil, gas and water distribution and treatment to chemical processing. Environmental specifications include low temperature, fire safe, and new patented "intelligently compensating" gearbox technology for the most extreme deep sea applications (in excess of 4000m).

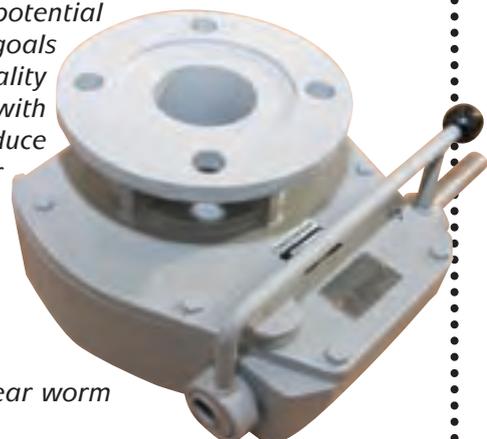
Following a strategy that's now driven by specific customer demand, Mastergear restructured from batch to one piece flow manufacturing. Self-contained cells are run and managed by multi-skilled, multi-tasking teams.



Photo: Mastergear subsea gearboxes

"We've reduced lead times by 80%. Our suppliers maintain the Kanban via dedicated portals in our ERP system, so the guys in the cells have everything on hand to meet demand. Our lean 5S programme organises materials and tooling to maximise production time and eliminate waste. And changing to a pull-based organisation has smoothed our material flow and allowed us to concentrate on customer satisfaction and on-time delivery."

People are also at the heart of this success story. "Training and developing people creates competitive advantage," says Ron. "Our aim is for an environment where people can meet their full potential while fulfilling the goals of the business. Quality people working with quality processes produce quality products for our customers."



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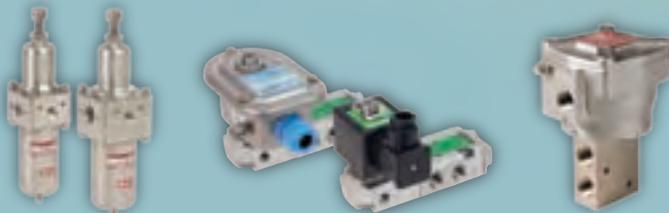
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Investors in Excellence (IiE) is a programme which drives continuous improvement, to provide a first class service to existing and new customer bases. IiE assesses companies against the framework of the EFQM Excellence Model, one of the world's premier business management and continuous improvement tools. Trufl Marine recognises that the path to excellence is an ongoing approach and has invested in additional personnel who are trained and committed to implementing this powerful tool. Furthermore, Trufl Marine has achieved ISO 14001 certification, the internationally recognised standard for Environmental Management Systems (EMS).

Trufl Marine is committed to managing environmental risk and to minimising its impact on the environment. The initiative is truly a team effort, with amongst many other initiatives all employees being encouraged to reduce energy usage and recycle their consumer waste via strategically placed recycle bins. Once again, Trufl Marine has invested in personnel, an

Environmental Co-ordinator to manage and further develop this pledge.

Robert Bowser, Managing Director of Trufl Marine re-enforces the company's achievements: "ISO 14001 allows us to identify and manage our environmental risks as part of our normal business practices. It is not only a great accomplishment, but also a voluntary commitment to proactively reduce harmful effects to the environment caused by our activities and to achieve continual improvement of our impact on the environment."

Investors in Excellence (IiE) is a rigorous programme that assesses our ability and encourages continuous improvement across the whole organisation. Our adoption of the IiE programme demonstrates our commitment to a long-term strategic approach to continuous improvement. The EFQM Model has given us a framework to ensure we maintain and improve quality and competitiveness and is embedded in the way our business functions."

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Rotork valve actuators in 'milestone' Chinese water supply project

Rotork IQPro intelligent electric valve actuators have been specified for one of China's largest ever water infrastructure improvement projects. The Dahuofang Water Supply Project consists of a 231 kilometre pipeline, one pump station, six water distribution stations and a buffer tower. The network will take water from the high rainfall area of Dahuofang Reservoir and distribute it to six cities in the dryer and heavily industrialised areas of Liaoning Province.

Over 140 Rotork IQPro actuators with Rotork secondary gearboxes have been ordered, mostly to operate pipeline and pump station butterfly valves manufactured by German and Chinese valvemakers. Some of the IQPro actuators are modulating versions for control valve duties at the pipeline distribution stations. All of the Rotork actuators are Modbus-enabled to suit the digital bus control protocol selected for the extensive pipeline network.

The Dahuofang scheme is viewed as a 'milestone' in worldwide domestic water supply projects in terms of capacity and geographical length. The project includes a water supply tunnel with a length of 85.3 kilometres, which will supersede the 54 kilometre Seikan Rail Tunnel in Japan as the world's longest when completed.

ROTORK CONTROLS LTD, Tel: +44 1225 733200

Rotork IQPro 35 – B4 actuators and gearboxes photographed at the Tielin Valve factory in China, fitted to 2400mm diameter pipeline butterfly valves for the Dahuofang Water Supply Project.



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Midland-ACS UK Manufacture at its best

Since it commenced production in 1982, the Valhall oil field in the Norwegian sector of the North Sea has supplied approximately 65,000 barrels of oil per day. The complex today consists of five bridge-linked platforms for quarters, drilling, wellheads, production and water injection respectively. In addition, three wellhead platforms, Hod, Valhall Flank South and North, have been installed. Due to seabed subsidence as well as the call to operate more efficiently, re-development of the field centre is well underway.

A new platform will be built adjacent to the existing Valhall, which like all the existing equipment, will be supplied with electric power from shore through a HVDC Light transmission, with the existing gas turbines being decommissioned when the new installation starts operating in 2010, making Valhall one of the most environmental friendly fields offshore.

UK manufacturer *Midland-ACS*, commissioned through their long-term Norwegian partner Haakon Ellingsen, were tasked with designing and engineering a number of different configurations of pneumatic manifold solutions incorporating specific solenoid operators for the re-developed facility.

As the appointed Pneumatic Actuation Manifold provider *Midland-ACS* assumed responsibility for engineering, procurement co-ordination, fabrication and assembly, as well as the testing of the assembled systems. In order to add further value, all of the required design work was completed by the *Midland-ACS* engineering team hence saving their customers resource and reducing the project lead-time considerably.

Manifold Specs

To withstand the environmental conditions that would be present both the 1/4" and 1/2" NPT versions of the manifolds were elected to be made from 316 Stainless steel. With the air temperature on Valhall varying from -8.2°C to +24.5°C, the manifolds were designed



and engineered to withstand temperatures as low as -20°C and as high as +80°C at a rated maximum inlet pressure of 17 bar.

Midland-ACS were required to design safety features and fail safes into each manifold configuration. Designed and manufactured in accordance to NORSOK standards, as well as BP's additional technical requirements to NORSOK (BPN specifications) the Air Filter Regulators and the Relief Valves were pre-set to operate at the specified system operating parameters. As part of the design a 1.25 bar differential was maintained between the required actuator working pressure and the specified relief pressure.

For this re-development project *Midland ACS* partnered up with valve manufacturer Parker and their Lucifer range of solenoids. Adhering to the EU ATEX and Electromagnetic Compatibility directives and the EExme and EExia approvals, the field instruments were supplied in 3/2 and 5/2 forms.

Each of the manifolds were individually tagged and mounted on back plates with specific Traffolyte legend plates. As part of the overall design the need for external pipe work was reduced significantly, increasing the overall integrity of the circuit was increased, as the number of potential leak paths were reduced.

With the manifold panels simply requiring mounting directly onto the valve actuators cost savings could be maximised. There was a significant reduction in lead-time, man hours, material cost, and weight, whilst delivering improvements in integrity of design and reliability.

Each manifold configuration was subject to a rigorous test processes, FMEA and internal audit schedules prior to despatch. Testing included electronics, pressure and full sequence leak testing ensuring that every potential leak path is duly eliminated to ensure longevity of the system. Each configuration of manifold was then supplied with test reports and full documentation packs. One of the reasons *Midland-ACS* were chosen for this project was their systems' reputation for reliability. By being responsible for the production of the actuator control panels they could ensure the quality of all components and materials selected for inclusion.

Midland-ACS, Tel: +44 (0)1902 305678



Platform Re-development with BP Norway

Fisher® Control Valves are First to be SIL 3 Certified to IEC 61508 Standards

Certification simplifies safety standard compliance for customers

Emerson Process Management has received SIL 3 certification of several ranges of its Fisher® valves to IEC 61508 standards. Emerson is the first control valve manufacturer to have achieved this independent third party certification which eliminates the need for prior use methodology while proving that Emerson's design process, engineering and testing fully comply with IEC 61508. This certification enables users to boost plant availability and safety by using the technology-leading Fisher® GX, Vee-ball®, easy-e® and HP valves in Safety Instrumented Systems in up to SIL 3 loops, per IEC 61508.

The four control valve ranges have been certified by independent third party safety professionals EXIDA for on/off operation within a SIL 3 safety instrumented

function. The valves can be packaged with the already successful SIL 3 certified Fisher FIELDVUE® DVC6000 SIS digital valve controller that enhances the safety function and monitors the health of the entire final control assembly, a core component of Emerson's smart SIS complete safety loop offering.

Many process plants already rely on Fisher control valves from Emerson for reliable and consistent performance in process control. The extensive experience of end-users with Fisher valves bear testimony to their quality and reliability in general service applications as well as in more demanding severe service applications. This is important because, when designing SIS functions, choosing the right control valve is the first pre-requisite. Only Fisher control valves offer the combined benefits of proven process control excellence and safety-certification to IEC 61508.

Fisher valves are components of Emerson's smart SIS safety management solution, an extension of the company's PlantWeb® digital plant architecture. Emerson's smart SIS provides an integrated approach to complete safety loops — from sensor to logic solver to final control element. The smart SIS solution enables customers to implement safer facilities, improve availability, lower life-cycle costs, and ease regulatory compliance. The smart SIS system components include the Fisher certified valves or SIL-PAC final control solution with FIELDVUE DVC6000 SIS, plus Rosemount® and Micro Motion® certified and proven-in-use devices, the DeltaV™ SIS system, and the AMS® Suite: Intelligent Device Manager.

To learn more about Emerson's smart SIS, go www.EmersonProcess.com/SIS

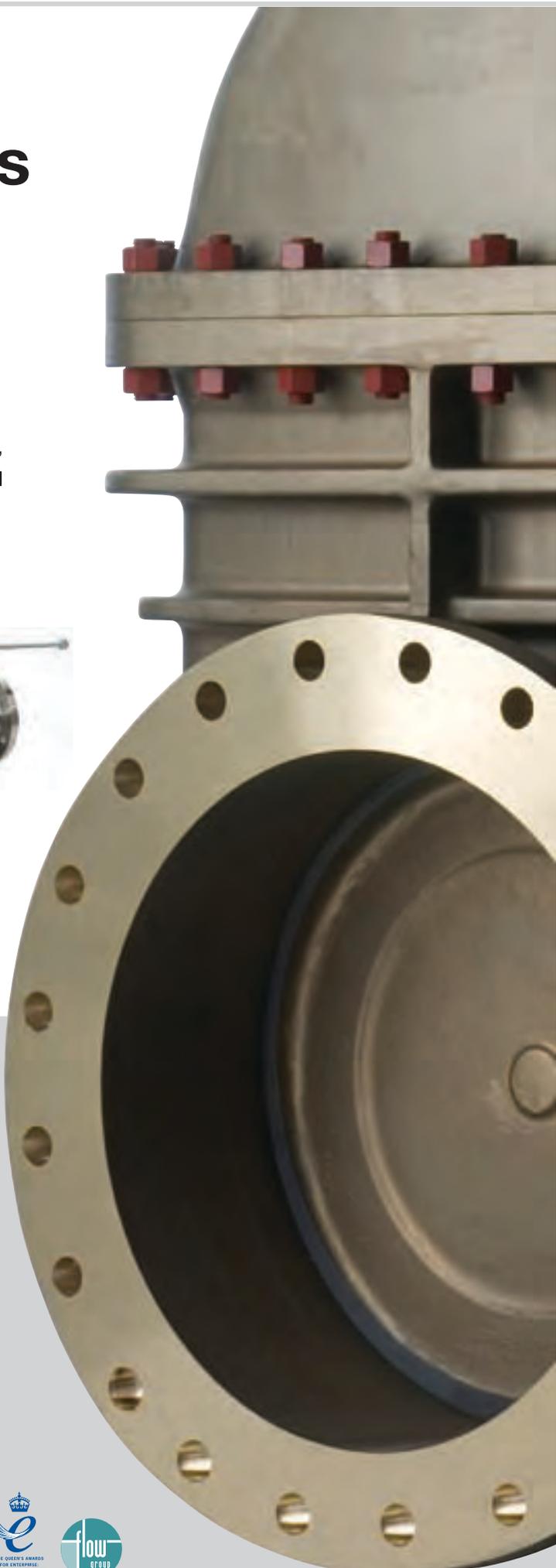


The Fisher Vee-ball valve is one of several ranges of valve from Emerson Process Management that is now SIL 3 Certified to IEC 61508 Standards



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TOPWORX

Include Discrete Valves to Maximize Benefits of FOUNDATION Fieldbus

FOUNDATION Fieldbus can add long-term value to process manufacturers by simplifying maintenance, reducing downtime, and enabling better diagnostics for easier troubleshooting and predictive maintenance.

However, huge savings opportunities can go unrealized if discrete on/off valves are not included in the fieldbus design and if device layout and segment design issues are not considered upfront. TopWorx, experts in connecting discrete valves to FOUNDATION Fieldbus, offers recommendations for achieving maximum savings.

Why discretizes on FOUNDATION Fieldbus?

Using FOUNDATION Fieldbus for on/off valves provides lower wiring costs, lower installation costs, easier troubleshooting, and a wealth of valuable diagnostic information. Such data can be used to analyze valve and actuator performance and provide predictive maintenance information that can result in significant savings for your FOUNDATION fieldbus project.

Discrete Valve Controllers = maintenance savings

Discrete valve controllers can provide tracking of valve cycles and measure the actual valve travel time to open and close. Based on this information, limits can be set, based on preference, for the maximum acceptable travel time or cycle count. When reached, DCS alarms are triggered, which alert maintenance staff that the valve and/or actuator is not performing properly. Repairs can be proactively scheduled, thus averting unplanned process shut downs, costly process delays, and/or product corruption.

TopWorx Valvetop® discrete valve controllers have Discrete Input (DI) and Discrete Output (DO) blocks, which are contained within a FOUNDATION Fieldbus

sensor/communication module that is potted and sealed from the environment. Valvetop products are intrinsically safe and have a unique low power design, making it possible to include up to four devices on a single I.S. barrier. They are globally certified for use in hazardous locations and can be used in environments with temperatures as low as -40°C .

Pre-defined templates = configuration savings

Pre-defined and tested engineering tools take the guesswork out of configuration. Labour time can be reduced by adopting manufacturers' templates as standard, or quickly modifying them to meet your specific application needs. Lower installation and engineering costs can result in significant savings.

TopWorx provides pre-configured module templates and standard faceplates at no charge to reduce configuration costs and streamline the installation and commissioning process.

Experienced Partner = installation savings

It is critical to partner with vendors who understand your process requirements and have proven FOUNDATION Fieldbus experience. Without this experience, most vendors will struggle to provide the level of knowledge and support needed for an effective transition.

TopWorx was the first to develop a FOUNDATION Fieldbus discrete valve controller, and today has the largest installed base of FOUNDATION Fieldbus on/off devices in the world. With extensive process experience and fieldbus expertise, the TopWorx Fieldbus Solutions Team can provide valuable insights to increase the efficiency of your communication and lessen the cost of your control system. They can assist with project definition, network design, device selection, configuration, commissioning and startup, and have the expertise to support your process after installation.

Maintenance, Configuration and Installation Savings = Optimal benefits with FOUNDATION fieldbus

The benefits of your FOUNDATION Fieldbus project can be great, such as reduced cabling and shorter cable lengths to spurs, lower wiring and installation costs, easier troubleshooting, reduced downtime, and useful diagnostics to manage plant assets. Predictive maintenance can be greatly enhanced by including discrete valves, and partnering with experts can streamline your configuration and installation process and result in a highly efficient and cost effective project.

TopWorx, Ltd.

+44 0 1785 887 960

www.topworx.com





NAF-TrunnballIT Expands Flowserve Pulp and Paper Product Offerings

Trunnion Ball Valve With Full-Bore Designed For Severe Operating Conditions

Flowserve Corporation has added the NAF-TrunnballIT valve to its product offerings for the pulp and paper industry. The NAF-Trunnball, a two-piece trunnion-mounted ball valve with full bore, is the result of a design philosophy focused on functionality, high quality, and low life-cycle costs. The NAF-Trunnball has undergone extensive testing in the international pulp and paper industry before being officially launched.

"The NAF-Trunnball performance has been proven under severe operating conditions in the process industry, where difficult media and demanding pressures place heavy stress on the design, materials and performance," said Flowserve Product Manager Jim Isaksson.

Due to the valve's tightness in both directions, it can be used as a control, on/off, or shutoff valve. The ball is supported by two-piece trunnion bearings for consistently low torque—even at high differential pressures. This gives smooth control and high resolution. This new product expands Flowserve's product offerings for the pulp and paper industry.

"Now we have the opportunity to provide customers an extended and comprehensive ball valve product range for the pulp and paper industry," said Isaksson.

The NAF-Trunnball valve is available in sizes ranging DN 150 - 800 (6" - 32") and has pressure ratings PN 10 - 40 and ANSI Class 150 - 300. Direct mounting with the NAF-Turnex actuator requires no extra couplings or brackets, reducing the risk of backlash.

For more information, contact product manager Jim Isaksson at jisaksson@flowserve.com

Flowserve Limitorque MX Releases New Safety Software Ground-breaking solution automates partial stroke testing

Flowserve Corporation, a leading global provider of fluid motion and control products and services, announces a major oil company has standardized its partial stroke safety testing on a Limitorque solution.

Momentary contact emergency shut down (ESD) software, in conjunction with a partial stroke event, has been extensively factory and field tested. Originally a custom application, it is now available as an optional feature on the Flowserve Limitorque MX.

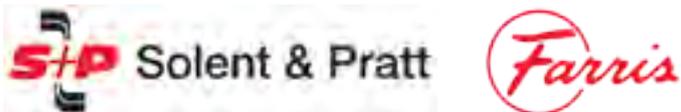
The software, a first for the industry, prevents the partial stroke signal from interfering with an emergency shut down signal to the same emergency block valve during a hazardous event.

"The safety benefits are immeasurable," said Earnest Carey Jr., product manager for Flowserve Flow Control. *"With the Limitorque MX upgrade, partial stroke testing is now an automated function that for many years was performed manually, incurring substantial costs."*

These features allow the Flowserve Limitorque MX actuator to safely install in very rigorous, demanding and hazardous applications.

The primary benefit of this software is overall plant safety in the event of a hazardous event. Both the partial stroke initiation and the ESD termination can only be enabled using redundant inputs and is consistent with Flowserve Limitorque's position as the actuator of choice for predictable performance in extreme applications.

For information about the Flowserve Limitorque momentary contact ESD and partial stroke ESD, contact product manager Earnest Carey Jr. at ecarey@flowserve.com.



Solent & Pratt

Over recent years Solent & Pratt has continued to grow the business in line with its key strategy of offering a bespoke range of butterfly control and isolation valves with particular emphasis on the manufacture of larger sizes up to 138", pressure ratings up to ANSI 2500lb and the expertise to design and manufacture valves in corrosion resistant materials for arduous duty.

Our new 43000 square feet state of the art factory and offices in the UK give us the facility to deal with large multi million pound contracts. We are able to manufacture valves up to 84" in house with offsite assembly & test facilities for valves up to 138".



The continued investment in capital, equipment and people at the Bridport site shows potential clients that as a UK manufacturer we are pushing forward the boundaries of butterfly valve design and manufacture. This coupled with our continually expanding workforce show our continued commitment to the demands of an ever changing market place.



Farris FAST Centre

Farris Engineering is one of the world leaders in the design and manufacture of pressure relief valves. We manufacture a complete range of valves in a variety of sizes, materials pressure and temperature ranges. The range includes spring loaded and pilot operated valves the current offering ranges from 1/2" valves with screwed connections to large flange types with up to 20" inlets.

The European support for Farris representatives is handled via the Curtiss Wright Flow Control (UK) Ltd FAST centre based in Bridport Dorset. The FAST centre is fully equipped and certified for assembly and test of the full range of Farris products. The UK FAST Centre also has the facility to carry out same day delivery due to the high level of inventory held on site which is supported from the US manufacturing base.



The UK FAST centre has authority to apply the National Board of Boiler and Pressure Vessel Inspectors V and UV stamp for assembly and VR stamp for the repair of pressure relief valves and the staff has undergone vigerous training at the Farris manufacturing plant in Brecksville Ohio.

This enables the total after sales support to be provided at a local level as well as providing totally factory approved products in close proximity to the customer base on a very quick delivery.



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Emerson Acquires TopWorx



Acquisition extends Emerson's PlantWeb® digital plant architecture and complements Emerson's valve and instrument businesses

Emerson has announced that it has acquired TopWorx (www.topworx.com).

TopWorx becomes part of Emerson Process Management, expanding Emerson's valve instrument offering and extending the reach of Emerson's PlantWeb® digital plant architecture to on/off valves and other instruments.

Headquartered in Louisville, Kentucky, USA, TopWorx manufactures industrial sensors and controls which monitor and control automated valves and other field devices. TopWorx Valvetop® discrete valve controllers connect on/off valves to a variety of fieldbus networking protocols, and GO® Switch leverless limit switches provide reliable position sensing in harsh environments and tough applications. The company has additional locations in the United Kingdom, Singapore, and South Africa.

"TopWorx is a strong and growing business that is highly valued by its customers," said John Berra, president, Emerson Process Management. *"The acquisition gives us a quick and significant entry into the discrete instrumentation market, and is highly complementary to our existing valve, valve automation, and instrument businesses. TopWorx will extend the benefits of our PlantWeb® digital plant architecture, and enable us to provide a complete valve instrument portfolio, both wired and wireless."*

"It is exciting to join what I consider the best and most progressive company in our industry," said Charlie Marcum, president of TopWorx. *"Emerson*

Process Management's global reach and technology leadership will accelerate our growth and broaden our product offering, enabling us to serve customers even better than before."

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Weir Valves Come to Town

The Weir Valves & Controls UK team together with the agents outside the UK facility



Weir Valves & Controls UK, part of Weir Power & Industrial, recently held a successful two day international agents conference at their facility in the UK. Agents were invited from across the world to meet with the UK team and to be updated on the company's plans for the future.

At the conference agents had an opportunity to present their own growth plans, for each of their respective markets and an opportunity to address questions directly to senior managers and product managers. The conference also provided the Weir Valves & Controls UK team with an excellent opportunity to capture issues and concerns directly from the agents, which will allow the company to further enhance the support it will provide agents in the future.

Peter O'Reilly, Weir Valves and Controls UK Sales and Marketing Director said, "It was extremely encouraging to see so many of our agents attend the conference and to hear that they foresee great opportunities for our products in each of their respective markets. Also, that they were all extremely excited by our plans, with many providing very valuable feedback."

Weir Valves and Controls UK plans to work very closely with each of its agents across the world, and to further build on its already impressive reputation for having one of the industry's shortest delivery timescales.

Weir Valves & Controls, Tel: 01422 282000



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Our formula for continued success may not be rocket science, but it's served us well in the past and present. Through more hard work and the desire to maintain our reputation for innovation and delivering high quality products, it will serve us equally as well over the next 50 years



Certification Options Available



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