

VALVE *user*[®] MAGAZINE

ISSUE TEN

MASTER *class*

Smith Flow Control
– *Valve Safety*



British Valve & Actuator Association



*Smiths for
Safety*



*Rotork
ROMpak*



Seals First



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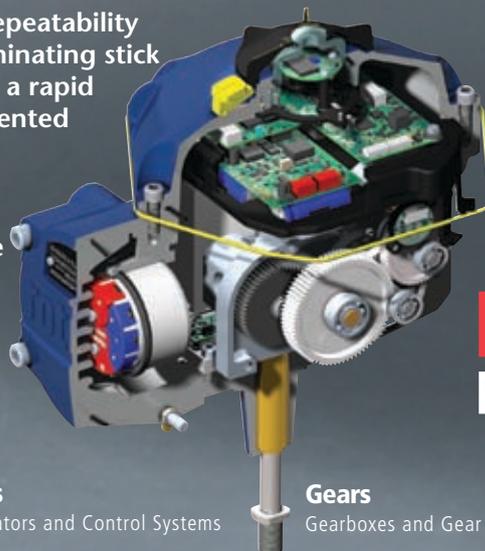
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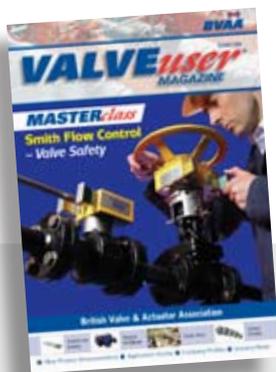
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VALVEuser® is a controlled circulation magazine, free of charge to genuine users of valves, actuators and related products and at the discretion of BVAA Ltd.

Cover: Smith Flow Control.

BVAA and Industry – Still Busy

Hello and welcome to this our tenth issue of Valve User magazine!

Despite the continuing doom and gloom in the financial sector, and the knock on effects this has elsewhere, I am delighted to report that the British Valve and Actuator industry is still phenomenally busy. Most BVAA members are still reporting very high activity levels and strong order books. It's a sign I believe of the inherent strength of the UK industry, which already operates on a lean footing, but has the added advantages of modern manufacturing techniques and supplying only the highest quality products.

As far as BVAA itself is concerned, we too are immensely busy on all fronts. We held the first meeting of our new Seals working group recently, which immediately tackled the highly controversial subject of fugitive emissions. We also held more meetings of our new Repair working group, which is making good progress in debating the issues surrounding this equally emotive topic! BVAA certainly could not be accused of avoiding the difficult subjects, and we are happy to assist industry in finding solutions to the challenges members face.

I am also pleased to report that BVAA membership levels continue to rise to record highs – another sign perhaps of the robustness of the UK sector.

Finally, as a committed supporter of continued professional development, I am delighted to announce the launch of a new initiative in this issue of Valve User – that of 'Master Classes.' In future we plan to bring you the very best training articles from the industry's leading experts.

I hope you find this issue of Valve User interesting and informative, and remember we always welcome your input.

BVAA 'Mad Hatters'

How far can you go wearing a BVAA Hat?

In this issue, the BVAA Hat has made a trip north, but can you identify where? There's £50 to the charity of your choice if you can identify this Scandinavian location. Answers - or requests for free caps - to rob@bvaa.org.uk

Our congratulations to Mike Williams of Asco Numerics, who correctly identified that Abi Collins was pictured last time at Phi Phi island, Thailand. £50 has been donated to Zoe's Place Baby Hospice.



by BVAA Director, Rob Bartlett



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

Yet More New Members!

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



Peter Dix (Tyco Valves & Controls) and John Kett of Kings Engineering Services receiving their BVAA Member plaque from BVAA Director, Rob Bartlett



Ken Hayward of MCE Group plc



Geoff O'Donnell of Hertel



Mick Loseby, Steve Pickering and Philip Oldham of Leengate Valves



Bruce Cooke of Linatex



Allen Bellamy of Apollo Valves receives his plaque.

Valve Safety

Founder and Vice-Chairman of Smith Flow Control Mike Smith discusses valve safety and the principles of Mechanical Key Interlocking



MASTERclass

It is essential that Processing industries take a disciplined approach to design and operating practice. Valve operating procedures can be potentially dangerous if executed incorrectly, or in unsafe conditions. The scope for injury and/or damage is also significantly increased when high temperature, high pressure or a toxic/flammable product is present. While good practice begins with good design - both are inevitably hostage to the 'human factor'. 70% of reported incidents in the Oil and Gas industry worldwide are attributable to human error, accounting for in excess of 90% of the financial loss to the industry.

Modern processes are often highly automated, yet still require human intervention during essential maintenance procedures such as loading or unloading Pig Traps and the changeover of Pressure Relief Valves. Distributed control systems (DCS) cannot effectively regulate such procedures - but Smith Flow Control's (SFC) mechanical key interlocking system can.

SFC is responsible for introducing the coded-card linear-key concept in a range of modular key-operated interlocks which regulate operator execution of work procedures on any form of host process equipment. These can be used on every form of valve (including motorised and instrument valves) as well as access hatches/doors and electrical isolating switchgear.

What are key interlocks?

Mechanical key interlocks work by controlling the sequence of events in which valve process activities are conducted.

Key interlocks are dual-keyed mechanical locking devices designed as integral-fit attachments to the host equipment and operate on a 'key transfer' principle. This limits actions to only those that produce a safe and desired outcome i.e. preventing a tanker from departing a loading/discharge station until the cargo hoses have been disconnected.

Typically key interlock systems are applied to valves, closures, switches or any form of equipment which is operated by human intervention. The 'OPEN' or 'CLOSED' status of an interlocked valve, or the 'ON' or 'OFF' status of an interlocked switch, can only be changed by inserting a unique coded key. Inserting the key unlocks the operating mechanism (e.g. hand wheel or push-button) enabling operation of the valve or switch. Operating the unlocked equipment immediately traps the initial (i.e. inserted) key.



SFC Key

When this operation is complete, a secondary (previously trapped) key may be released, thereby locking the equipment in the new position. This secondary key will be coded in common with the next lock (item of equipment) in the sequence.

By this simple coded-key transfer principle, a 'mechanical logic' system is created which denies the scope for operator error.

In addition, keys may be customized to intelligent format by electronic tagging of individual keys and managed by system software that interfaces with the mainframe DCS system.

While popular Permit to Work (PtW), Lockout/Tagout procedures provide a 'lock-off' capability, they do not provide any control of the sequence of operations, nor do they assure or confirm the status of the equipment to which they are fixed which can generate dangerous conditions through error or negligence. Interlocks are ideally suited for integration with PtW procedures and provide an effective front-line safety management tool that mitigates the risk of human error.

Case Study - Malaysian LNG Facility

To prevent accidental product spillage while tankers are loading, Smith Flow Control supplied and installed a valve interlocking system for the Malaysia LNG installation at Bintulu in Sarawak, East Malaysia.

One of the largest LNG facilities in the world, the LNG loading site features hydraulically actuated loading arms which are maneuvered into place from a control station. Once connected, the supply valve is opened up allowing product transfer.

The specification of the safety interlock system comprises two trapped-key locking devices. A single key, two-position switch lock unit is fitted to the panel in the control station. A small valve lock is fitted to the hydraulic supply line on the LNG supply valve.

With the interlock key in place in the control station switch panel lock, the loading arm can be maneuvered into place. Once the arm is connected to the ship, the key is released from the switch lock and used to unlock and open the Ball valve in the supply valve actuator. The supply valve can now be opened in the usual way.

While the transfer takes place, the key remains trapped in the valve lock, preventing operation of the loading arm. Once transfer is complete, the supply valve is closed enabling release of the key, which is then returned to the control station, reinstating controls of the loading arm and allowing it to be retracted.

This simple, low-cost system eliminates the risk of human error or negligence in the tanker loading procedure which could lead to a vessel leaving the transfer area still connected to the on-shore facilities via a loading arm. Only one key is 'free' at any time which makes the system simple and operator friendly; the essence of a well designed key interlock system.

Smith Flow Control, Tel: +44 (0) 1376 517901
Website: www.smithflowcontrol.com



About SFC

Smith Flow Control (SFC) was established in 1985 to provide engineered safety systems for hazardous valve operations. Through innovation of the specific coded-card key interlocks, SFC has helped shape safety guidelines for valve operation in the Oil & Gas and chemical processing industry. Most offshore installations in the North Sea have been equipped with SFC systems as well as the majority of related onshore processing facilities throughout Europe. By 1990 SFC became the generic term for key interlock safety systems in the international Oil & Gas industry and its client base now includes most of the major operating companies across all five continents. For over 20 years, Smith Flow control has never failed to provide a viable technical solution to a client's safety operating problem.



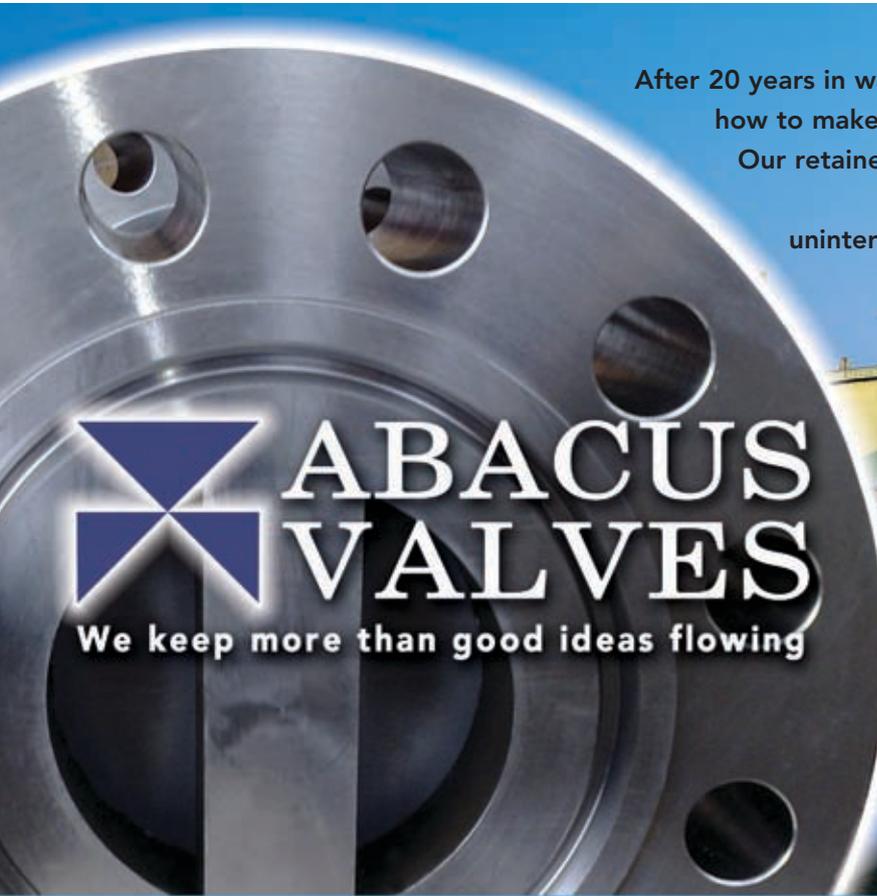
Repair Meeting

The valve and actuator repair industry is probably one of the hottest topics in the BVAA at the moment, and the association has formed a new dedicated working group to help develop a new repair Code of Practice. The group held its third meeting recently at the National Fluid Power Centre in Nottinghamshire, a shining example of what can be achieved when industry and customers come together to co-operate on training and qualifications, and particularly 'tests of competence.'

Discussing the responsibilities of the product OEM, the owner and the repairer has not been proven easy in our meetings, and strongly held views have been robustly traded! What is clear is that everyone involved is converging on a commitment to 'raise the bar' in valve repair. We are however particularly keen at this stage on getting more user involvement, contact rob@bvaa.org.uk

Seals Meeting

On the 25th February, BVAA hosted the inaugural meeting of our new Seals working group. Representatives from the seal manufacturer and seal user communities came together with BSI, BHR and other interested parties to discuss a comprehensive agenda, which of course commenced with the perennial debate on Fugitive Emissions. The related ISO 15848 standards were up for systematic review this year, and it is clear from the WG's debate that not everyone is satisfied with their current content. Training courses and informative events for BVAA members were also discussed. Please contact rob@bvaa.org.uk if you would be interested in participating in future meetings.



After 20 years in wafer check valve design and manufacture we know how to make good ideas flow into great engineering solutions. Our retainerless twin plated unit eliminates potential leakage paths and offers non-slam characteristics and an uninterrupted flange sealing face. Wherever liquid or gas flows you will find our products at work.



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BVAA's Desktop Exhibition at MW Kellogg

The BVAA held another one of its highly successful 'desktop exhibitions' recently in the Atrium at MW Kellogg in Greenford, London. Twenty-four BVAA member companies exhibited and received over 120 visitors from the various Kellogg departments.

BVAA arrange all aspects of these exhibitions for major customers and contractors free of charge. With the recent decline in traditional exhibitions, 'desktops' offer an extremely efficient way for valve and actuator users and specifiers to find out the latest product developments and

meet potential new suppliers, in the comfort and convenience of their own offices.

If you would like to know more about these exhibitions, contact rob@bvaa.org.uk

Dave Martin Honoured



Dave Martin (left) receives his I.Mech.E Fellowship certificate

David Martin, co-director/owner of Valve Solutions Limited and BVAA's Control Valves training course lecturer, became a 'Fellow' member of the Institution of Mechanical Engineers on Friday 27th March 2009. This celebration, attended by the Dave's family, took place at the Royal Armouries Leeds, with the presentation of certificates in the museums Tournament Gallery. Our sincere congratulations to Dave for this wholly deserved honour!



BVAA welcomes users' views and articles.

Submissions to rob@bvaa.org.uk



Valley Spring forward with new production machinery

Valley Spring Ltd is one of the leading manufacturers of medium and large springs in the UK. As a result of considerable investment, Valley Spring offers a comprehensive range of compression, extension, and torsion springs.

Our 11,000 square foot manufacturing facility offers springs up to a wire size of 50mm in a wide variety of materials including carbon, stainless, Inconel and special alloys.

Our specialised production offers CNC coiling up to 20mm wire in addition to lathe coiling to a wire diameter of 50mm with plasma cutting and high speed production grinding for spring ends.

This investment and technical expertise enables us to offer a quality service to a vast number of industries from precision valve manufacturers to quarry and crushing machinery at competitive prices.

Valley Spring
Tel: 01246 451981
www.valleyspring.com



BEL Valves appoints new Sales & Marketing Director

BEL Valves has appointed Michael Ridley as its new Sales & Marketing Director. Michael's remit it is to develop new global markets for BEL Valves, with an initial focus on BEL Valves' activities in the Eastern Hemisphere and the Americas.

Michael has worked for BEL Valves previously. In 2000, Michael left BEL Valves to start his own business – RB Valvetech Ltd – a valve trading company also based in the North-East of England. However, he was attracted back to the dynamic manufacturing environment, in particular with a subsea products and product development focus.

Michael first joined BEL Valves as an apprentice in 1984, and as a sign of things to come, he won the BEL Valves Apprentice of the Year Award in 1988. His career then took him through the BEL Valves Engineering Department, seeing him move from Apprentice Engineer to Design Engineer in 1988. In 1990 he moved into internal sales, taking up the post of Internal Sales Engineer.

Various sales posts followed, including an Internal Sales Manager role in 1992, before Michael was re-located to Aberdeen in 1993/94 for his first external sales post, increasing turnover in this key market from £700k to £7m. Finally, Michael was promoted to UK & Scandinavia Sales Manager before being promoted to Sales Director for BEL Valves.

www.belvalves.com

Precision Polymer Engineering

Introducing PPE

Precision Polymer Engineering (PPE) is a specialist elastomer seals manufacturer with over 30 years experience in the design and manufacture of valve seals. Based in Blackburn, Lancashire, and with offices in Aberdeen, United States, France, Germany, and Asia, the company is a truly global business with over 80% of sales from outside the UK.

PPE offers over 300 grades of elastomer for valve manufacturers and users. These range from ultra high / low temperature elastomers to highly chemically resistant fluoroelastomers and perfluoroelastomers, standard HNBR and nitriles. The elastomers are available in FDA compliant, USP Class VI, 3-A sanitary standard, as well as, explosive decompression resistant grades.

PPE seals are used in valves in a broad range of industries including food, pharmaceutical, chemical manufacture, paint production, semiconductor manufacture, marine and oil and gas exploration and processing, for example.

Excellence in materials technology is at the core of PPE's service to valve manufacturers and users. This allows PPE to offer an intelligence-led approach to valve seal design and supply. Our purpose-built Materials Characterization Centre (MMC) includes a state-of-the-art laboratory and development cell and offers a comprehensive range of services for the development, characterization, testing and analysis of polymeric materials.

The MCC is also provides independent testing and consultancy services for companies who are looking for assistance in investigating polymer materials in the event of a recurrent sealing problem. These include: chemical compatibility, failure analysis, thermo-mechanical evaluation, thermal analysis for Differential Scanning Calorimetry and Thermogravimetric Analysis, Infra-red Spectroscopy (FTIR), and Explosive Decompression Testing.

PPE's web site www.prepol.com offers a rich, on-line, resource for valve manufacturers and users, including chemical compatibility information and literature downloads, together with interactive tools for elastomer material selection and O-ring groove calculation.

Valve users are invited to attend one of the professional development training courses, seminars and workshops conducted by PPE throughout the year.

These educational events are designed to increase the delegate's awareness of the important aspects of elastomer technology. The content of each course/seminar/workshop is industry specific and tailored to the attendees' requirements. Events are held at PPE's train-



ing centre in Blackburn and Aberdeen, and at delegates' own business premises (subject to a minimum group size) or at strategically located convention venues throughout Europe and the USA. For details of forthcoming courses contact info@prepol.com.

For more information on PPE valve seals, training courses and independent consultancy services call +44 (0)1254 295400 and e-mail sales@prepol.com.

BVAA @ ACHEMA 2009!



BVAA will be exhibiting at Achema, May 11th to 15th 2009, Hall 9.0, stand D6 to D10 (co-exhibiting with Weir Power & Industrial) and we would be delighted to meet readers of Valve User and of course BVAA members attending the show.

Many BVAA member companies will be exhibiting in their own right, at the following stands:-

Company	Stand & Hall No.
Norgren	Hall 8.0 Q23 to Q25
Spirax Sarco	Hall 8.0 Stand C20-22 and Hall 3.1 Stand P25
Pro-Kits	Sharing with RGS Electro Pneumatics in hall 9.0 stand B5
PPE	Hall 9.0 Stand F6
Safety Systems	Hall 9.0, Stand H39
Beldam Crossley	Hall 9.0 Stand L9
Kinetrol Ltd	Hall 8.0 Stand w3-w4
Seetru	Hall 9.2 Stand f18
Shipham Valves	Hall 9.0 Stand A17
Weir Power & Industrial	Hall 9.0 Stand D6-D10



Emerson will supply 780 Fisher digital control valves for a project at the Saudi Kayan petrochemical complex -including a DN 1050 Fisher antisurge valve - the largest ever built



Emerson's manufacturing facility in Sakura, Japan, will be supplying 780 Fisher digital control valves to the Saudi Kayan petrochemical complex, including a DN 1050 anti-surge valve

Major Order for Fisher

Emerson Wins Major Order for Fisher® Digital Valves for Saudi Olefin Project including the largest ever DN 1050 (42-inch) Antisurge Valve

Fisher Optimised Antisurge Valves selected for best-in-class reliability, fine control, fast stroking and easy tuning for critical applications

Emerson has been awarded an order for the installation of technologically-advanced Fisher® control valves at the Saudi Kayan petrochemical complex in Al Jubail Industrial City, Saudi Arabia. For the project, Emerson will supply 780 Fisher digital control valves including the largest DN 1050 (42-inch) Fisher antisurge valve ever to be built.

Scheduled for operation in 2010, and with an annual production capacity exceeding 6 million metric tons of (petro) chemical products, the Saudi Kayan Petrochemical Company, an affiliate of the Saudi Basic Industries Corporation (SABIC), is one of the major suppliers in the petrochemical industry.

The use of high performance valves in critical applications is of significant importance to the profitability of a plant. Fisher digital valves will enable predictive monitoring of the processes and digital valve performance, supporting proactive maintenance that addresses problems before they become issues that affect plant performance.

The superior dynamic performance of the 5-metre, 11,000 Kg large valve with Fisher optimised technology will help ensure a smooth start-up for the plant in 2010. This largest-ever Fisher FB valve will be used in the cracked gas compressor 1st stage to provide surge protection.

Providing high reliability, tight control, fast stroking, and easy tuning, the anti-surge valve features a high-seal graphite packing to eliminate fugitive emissions, Whisper III trim to reduce noise and vibration, a cushioned actuator, Fisher FIELDVUE® DVC6000 Series-PD instrument, and Optimised Digital Valve (ODV) technology to provide fast stroking with controlled deceleration, high resolution, and minimal overshoot. There are twelve valves of various sizes with Optimised Digital Valve (ODV) technology in the order.

Fisher valves with FIELDVUE digital valve controllers are key components of Emerson's PlantWeb® digital plant architecture that networks process automation systems and instrumentation to provide efficient operations and predictive technology-driven maintenance for process facilities worldwide.

Emerson Process Management Ltd
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Kent Introl Re-brand Unveiled

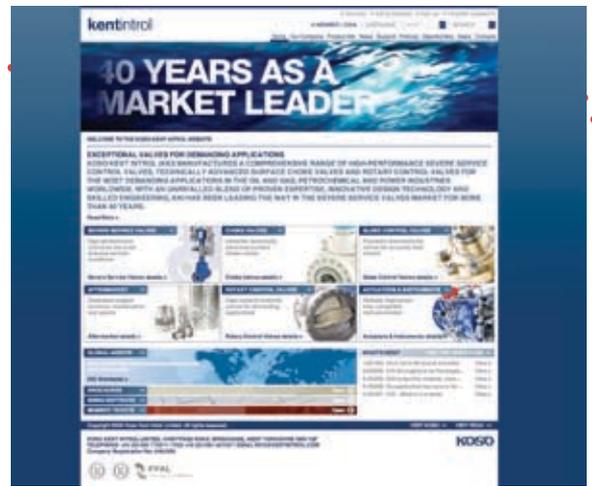
Koso Kent Introl (KKI) has unveiled a new corporate identity through the re-launch of its website, reflecting the company's desire to stay at the leading edge of the market.

KKI is a core brand within the Koso Group of companies, and the new website will strengthen the company's global presence, acting as an important resource not only for suppliers and customers but also for internal teams.

KKI's Sales Director David Limb comments: "We are justifiably proud of our reputation, and have been working hard to ensure that we stay at the forefront of our field and continue to communicate with our customers to determine their needs. Our website will help us to demonstrate that we are more than ready for future challenges. This is the first step on a journey that will see the KKI brand continue to grow.

"Customers and suppliers will recognise that the values on which KKI is based have not changed. Regardless of where they are in the world, we will be communicating with them in a way that is clear, recognisable and, most importantly, adds value."

Tel: (0)1484 710311
www.kentintrol.com



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 2200 meters.

BEL Valves

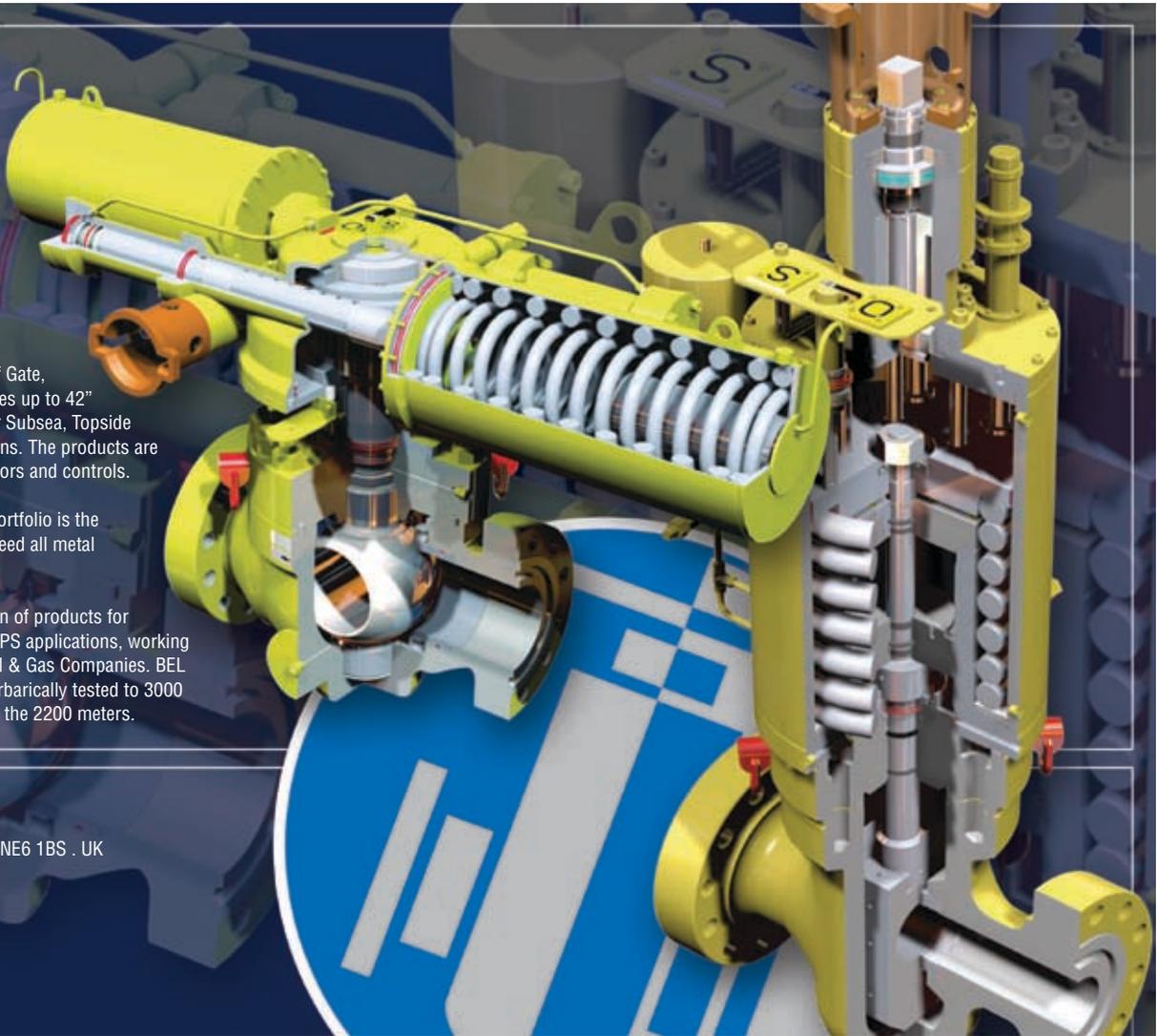
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www.belvalves.co.uk





TYCO ACQUIRE KINGS



TYCO FLOW CONTROL STRENGTHENS ITS UK SERVICE CAPABILITY

On March 2nd, 2009, Tyco Flow Control announced that it had completed the acquisition of Kings Control Services, in a step to further expand its global service operations. Privately-held Kings Control Services is a valve service and repair business based in Redcar Teesside UK, that specializes in servicing industrial control valves, as well as safety relief valves and line valves.

Kings Control Services was founded in 1992 and has expanded rapidly over the last few years whilst establishing a reputation for technical excellence with its customers in the North of England.

"Kings Control Services' knowledge and experience in this high-value product group will strengthen our service platform in Europe and provide additional aftermarket business opportunities for our customers," commented Gilbert Villa-Massone, President of Tyco Valves & Controls, Europe, Middle East & Africa. *"Our end users are increasingly looking to outsource their service requirements to concentrate on core competencies and this acquisition will help us to meet our customers' needs in the UK."*

ISO 9001 accredited Kings Control Services specializes in overhaul, repair, recalibration and distribution services for valves and actuators of all makes. They gained Approved Repairer status for Fisher Control Valve products in 2007 and also hold local approvals from ABB and Semcorp for the repair and testing of safety relief valves.

John Kett, former partner of the business, has taken up the position of Operations Manager at Kings Control Services. *"Acquisition by Tyco is an important step in the development of Kings Control Services. With the backing of the world's largest valve company we now have the resources at our disposal to build on our existing strengths of technical excellence and responsive service by extending the range of products and services that we can offer. Together*

we have the tools and knowledge to add significant value to our customers in every area from reactive breakdown call outs, to preventative maintenance programmes and major shut down management. I am personally looking forward to working with Tyco's existing service organisation in the UK and Europe to continue the growth that we have managed to achieve in the last few years."

Kings Control Services will become part of Tyco Flow Control's service platform alongside the existing Aberdeen based operation. With more than 50 service centers globally, Tyco Flow Control is committed to providing local expertise to local customers, no matter what the valve product, or where they operate around the world.

"This is another example of our commitment to investing and growing Tyco Flow Control's aftermarket and service strategy around the globe in key markets and key industries," added Patrick Decker, President of Tyco Flow Control. *"Through a combination of organic growth and selected acquisitions, we will continue to build our service platform and partner with customers to solve their challenges by providing them with integrated, end-to-end solutions - from design, engineering, installation to maintenance and services."*

Kings Controls Services
Tel: 01642 756644



New director will build on power station success story at Exeeco



Graham Rayner has been appointed Divisional Director for Actuation, Projects and Service at Exeeco, the UK's leading specialist valve actuation company serving the power generation industry. Graham will now lead a dedicated team of engineers to further expand Exeeco's scope and capacity for actuation installation, upgrade and maintenance projects in the power station environment.

Graham is pictured (centre) at Drax Power Station in Yorkshire with his engineering team.

He explains: *"In the UK, a perceived shortfall in generating capacity, precipitating environmental upgrades and the need to extend the life of existing stations, continues to feed an increasing demand for clean and efficient actuation solutions in the critical operating areas of many power station installations. Exeeco has over thirty years specialist experience of not only providing these solutions but also maintaining and upgrading such assets in line with emerging new technologies.*

"As a significant member of the Rotork Group of Companies, Exeeco has access to an unrivalled range of electric, electro-hydraulic, fluid power and specialised actuation solutions to meet isolating and modulating valve and damper duties in even the most inhospitable power station environments. In the longer term, conventional and nuclear new build programmes will provide further opportunities for Exeeco's installation, commissioning and maintenance services."

Graham, 31, joined Exeeco as an apprentice technician in 1994 and in recent years has been the Engineering Manager for the business. In his new position he is inheriting a team that has flourished under the previous leadership of Martin Cheetham, who has now left Exeeco to become a power station manager for Eon, thus becoming a customer of his old firm!

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H.S. Pipeequipment leads the way with Delivery Times



H.S.Pipeequipment (HSP) is a market leading valve distributor to the Oil, Gas, Petrochemical and Power Generation sector. The company offers the fastest response to enquires and can supply valves within ultra quick lead times.

HSP can fulfil valve orders of any size or complexity, from a single valve to a multi-million pound EPC project. The company's capability and strength covers the full supply chain from assisting in the selection and technical evaluation of the best product right through to order placement, expediting and delivery.

A reliable supply partner who can reduce delivery time whilst illustrating an intuitive stock management service is integral to supporting client's business continuity. When asked by a local Teesside refinery to assist in identifying solenoid valves that needed replacing, HSP demonstrated their full understanding of the client's requirements.

They recognised the valves were over 30 years old and had been superseded several times. As the replacements were required within two weeks to allow the gas burners to be switched back on, they supplied an ideal replacement from Maxseal within

five days instead of the standard lead time of six weeks. With the knowledge of there being another 90 units on site, HSP decided to add the item to their stock range to cover any future site complications.

HSP has been operating for over 25 years in the global oil and gas industry. They have had a presence in Teesside for many years supporting the Petrochemical market and over this time has adapted and evolved with the changes in both the industry and the company itself. They were set up in 1986 by ex-ICI buyers, who identified a need for a local company to stock site-specified valves for maintenance and replacement to avoid the sometimes lengthy manufacturers lead times, which can be particularly problematic during shutdowns.

The strategically situated Teesside operation was immediately backed by some of the world's leading valve manufacturers. This is an alliance that is still in effect today and growing, with new manufacturers being added to ensure a comprehensive stock holding is developed to specific site needs and reduce downtime.

Following a successful management buyout in 2004, the new management team quickly identified a need in the Teesside market and heavily invested in a new purpose built warehouse. To compliment the Teesside operation and meet with demands, HSP increased staff levels and



training for new products that were to be stocked.

Peter Everett, CEO of H.S.Pipeequipment comments, "After the MBO, we enjoyed a good success with our projects office for the London and Aberdeen markets. I then made it a priority to spend time with our Teesside operation and familiarised myself with both staff and clients, as it was clear that an investment was needed in products for the local market."

The company has grown from strength to strength, demonstrating their service dimension. HSP can source valves within tight deadlines and were recently called upon following the on-time supply of the complete shutdown to a local chemical plant on Seal Sands, Teesside. It was discovered with one week to go that a 30" valve needed replacing in order to have the plant back up to running at full capacity. The required valve was not held in stock anywhere in the UK or even Europe. Using their extensive experience and solid relationship with leading manufacturers, HSP were able to source the valve from the US and had it air-freighted from Houston to London Heathrow where it was put on a dedicated HGV and delivered to site in five days. No other supplier was able to supply the valve on a lead-time shorter than 28 weeks.

H.S.Pipeequipment are continuously developing their product portfolio and services to meet the ever-changing demands within the Petrochemical industry. The company has doubled its inventory at Teesside to hold over £5m and stocks a range of leading manufacturers including: Maxseal Solenoid valves, Bonney Forge valves and Audco, Gate, Globe, Check and Ball valves.

To discuss how H.S.Pipeequipment could benefit your company, please visit www.hsp.co.uk or alternatively call 01642 608999.



MEETING THE ENERGY CHALLENGE

26 – 28 May 2009, Koelnmesse, Cologne, Germany

INDUSTRY LEADERS' KEYNOTE SESSION

Delegates, visitors and exhibitors attending the forthcoming POWER-GEN Europe, Renewable Energy World Europe and POWERGRID Europe exhibition and conference have the opportunity to attend a joint keynote session where power industry and policy leaders will address the energy challenges facing Europe in this and the coming decades, including their views of the role that conventional and renewable energy will play.

The joint keynote session will take place on Tuesday 26 May 2009 at 09:30 – 11:00 in the Konrad Adenauer-Saal, Koelnmesse Congress Centre and features these industry experts and their respective topics:



Dr.-Ing. Johannes F. Lambertz,
President and CEO RWE Power AG, Germany

*Future Power Generation In Europe -
Meet the Challenge*



Dr.-Ing. Joachim Schneider,
Senior Vice President,
Member of the Management Board,
ABB AG, Germany

*New Power Plants need new Grids -
A Chance of Investments in Europe*



Mr Wolfgang Dehen,
CEO Energy Sector,
Member of the Managing Board,
Siemens AG, Germany

*Energy Efficiency -
Solutions for an Integrated Energy System*

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NEW COMPOSITE VALVE RANGE LAUNCHED BY TYCO FLOW CONTROL



In one of the most significant developments in the industrial valve market for decades, Tyco Flow Control has launched the Keystone CompoSeal® range of butterfly valves which feature a composite body and disc-shaft assembly.

The valves offer a wide range of benefits including high chemical resistance against process medium, excellent external corrosion resistance and reduced weight - while being competitively priced compared to traditionally constructed products. Tyco predicts that the products will initially appeal to the food, brewing and industrial water applications including sea water at high temperatures, deionisation, brine, and cargo container applications.

The CompoSeal range has a split body that clamps the seat securely in position around the entire 360 degrees - making it suitable for high line velocities and vacuum applications - and a one piece disc-stem. The one-piece disc-stem minimises hysteresis problems, makes CompoSeal suitable for regulating as well as on/off duty, and ensures the shaft remains dry to eliminate crevice corrosion between the shaft and disc. Furthermore it gives the range a high Kv value.

Keystone CompoSeal's double D shaft design gives a clear visual indication of disc position even when the valve is installed in the pipe line and four multi-drilled locating holes compatible with PN 6/10/16 and ANSI 150 and guarantee perfect concentric positioning between pipe flanges. Finally incorporated flange O rings remove the need for gaskets and speed up installation.

CompoSeal is available with short lead times thanks to the streamlined production techniques that Tyco Flow Control has adopted and can operate in a temperature range of -40 to 120 degrees Celsius with a maximum pressure rating of 10 bar.

"Composite materials have made huge progress in recent years and are now common in automotive, aerospace and other cutting edge technologies," commented a Tyco spokesman. *"Thanks to their improved mechanical properties as well as their chemical and physical behaviour, CompoSeal valves will deliver comparable performance to traditional metal resilient seated butterfly valves. Add to that the increased costs of materials such as iron, stainless steels and metal alloys and the advantage of composite valves are very significant."*

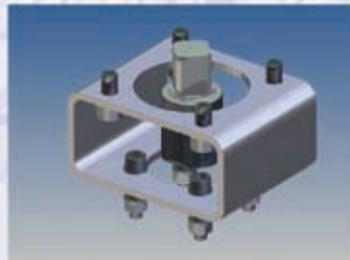
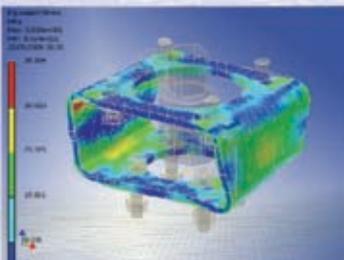
"Final performance of valves can be determined to a great degree by design simplicity and one of the advantages of composites is that they enable multiple components and functions to be integrated into single parts," he concluded.

For more information on Tyco Flow Control, please visit www.tycoflowcontrol.com

In one of the most significant developments in the industrial valve market for decades, Tyco Flow Control has launched the Keystone CompoSeal® range of butterfly valves which feature a composite body and disc-shaft assembly.



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Apollo valves have state of the art foundries and manufacturing plants, employing over 1000 people worldwide and with the appointment of an approved modification facility in the UK,

they continue to deliver problem solving solutions.

Their continued investments in manufacturing, distribution and quality control enable Apollo valves dedication and commitment to supporting their customers.

To emphasize this commitment, Apollo Valves have increased their already outstanding two year warranty by an additional three years. That's FIVE YEARS warranty on all domestic products.

Cal Mosack, Executive Vice President, stated

"The confidence we have in our own domestically manufactured products is so high adding an additional three years to our warranty was an easy decision to make. This means we're not only talking about quality, we're putting muscle behind our commitment. We know that our commitment to the tough standards of ISO 9001:2000; the rigorous control of the content of our raw materials; the continuous monitoring of all systems and operations; and our documented testing and inspection of all components and products: results in Apollo branded valves that are clearly the industry standard."

European Sales manager, Allen Bellamy added

"In these difficult economic times we are all looking for products that deliver added value. A Five year warranty on domestic Apollo Valves, free from defects in workmanship and materials, will deliver that package and make the QUALITY decision to specify Apollo branded valves an easy one."

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SAXON Dual-Plate Wafer Check Valves

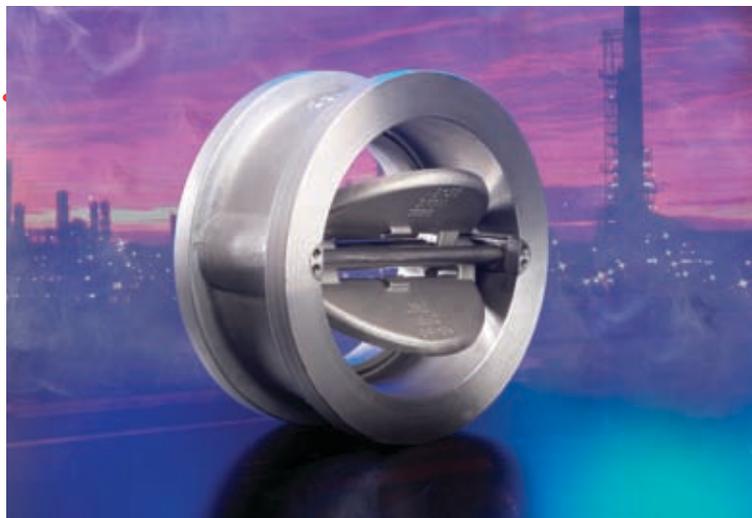
Hi-Flow Valves Limited is pleased to announce the launch of the new Saxon range of API 594 Dual-Plate Wafer Check Valves.

Hi-Flow are stocking Low Temperature Carbon Steel (LCC) and 316 Stainless Steel (CF8M) valves, all with 316 Stainless Steel Seats and Trim, and Inconel X-750 springs.

Initially, Raised face Wafer Flangeless Valves will be held, with LCC available up to Class 600, and CF8M up to Class 300. A stock list will be available on the Hi-Flow website. Other designs, such as RTJ ends, seat materials and pressure ratings are available to be manufactured upon request, while the "ready made" range is expanded.

These can include Metal or Soft seats, allowing a wide range of material choices to suit most applications for which this type of valve would be selected.

Check Valves are used to stop the reverse flow of fluids. Original Types included the full-sized Swing Check valve and over time, the need to reduce weight in installation, and to minimise the space taken by a valve, resulted in the development of the Wafer Check Valve design.



The basic design of Wafer Check Valves has been used for many years, and as the needs of the industry have changed, so has the Valve design. Original designs used external fixtures to allow access to the internal trim parts of the valve, leaving a potential path for media to escape from the valve.

With growing global concern about pollution and the environment, and the resulting governmental legislation becoming more pressing in recent years, the desire to remove the external fixtures on the valve, to eliminate leak paths, has produced the "retainerless" pattern. The standard retainerless design used on the Saxon valve eliminates the possibility of Fugitive Emissions to atmosphere through the valve body, successfully addressing the important questions of "Safety" and "Environmental Issues", which are foremost in the considerations of any Plant operator.

The "end-entry" design on valves up to 4 inch, similar to that used on many Ball Valves, makes maintenance simple, requiring no special tools. On larger sizes, cartridge assemblies carry the trim and sealing parts, securely located completely on the inside of the valve.

Fully compliant with API 594, the simple and effective design of Saxon Wafer Check Valves means that they can be fitted to a newly designed or existing plant as required. As a result of the relatively small size of the valve, it is cost effective in terms of purchase, installation, and operating costs.

Saxon Valves are manufactured and tested under systems accredited by TÜV Rheinland, including ISO 9001 (2000). They are CE marked and approved in compliance with the Pressure Equipment Directive 97/23/EC, EC Design Module B1 and Module D/D1, also through TÜV Rheinland.

The name Saxon was chosen as it is easy to remember, and reflects the ancient British tribes that inhabited the area around Mildenhall in Suffolk, where the Valves are stocked. The first Saxon Wafer Check Valves are ready for supply from stock now.

For more information on the Saxon Wafer Check Valve, please download the PDF brochure on the Hi-Flow website, or contact Hi-Flow Valves on:

Telephone: 01638 711500
Fax: 01638 711521
www.hi-flow.co.uk
sales@hi-flow.co.uk

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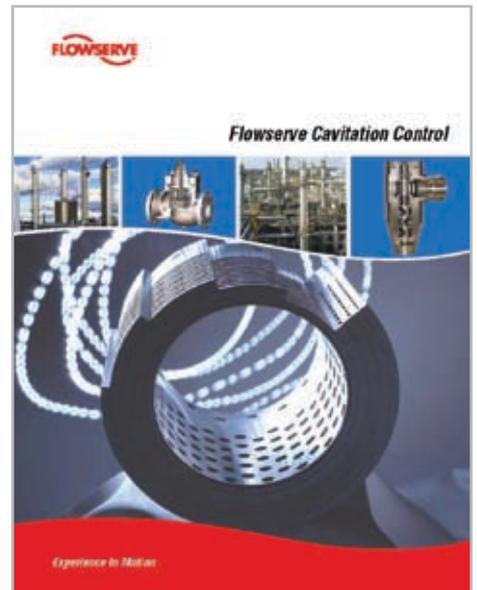
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New Flowserve Publication Helps Customers Eliminate Control Valve Cavitation

Flowserve Corporation has released a new valve cavitation teaching and selection guide. Customers can now better understand cavitation prediction and control capabilities, and thereby minimize the increases in operating costs that result from cavitation damage.

Flowserve Cavitation Control is a comprehensive guide featuring detailed information about the causes of cavitation and a presentation of the latest cavitation control technologies for both linear and rotary applications. Even low levels of cavitation can cause cumulative damage to piping and valves if adequate protection is not provided, potentially resulting in equipment failure. Cavitation is avoided by gradually reducing the pressure drop from inlet to outlet through a variety of control mechanisms. Accurately predicting cavitation and applying the correct control mechanisms is critical to a successful, cost-effective solution.



Application Guide Provides Solutions to Reduce Maintenance Costs, Downtime

"Flowserve's close correlation between test results and prediction methods results in superior performance of our anti-cavitation trims in demanding applications. This reduces operating costs for our customers by minimizing maintenance and downtime," said Jeff Parish, Senior Product Manager, Flowserve Flow Control Division. *"Flowserve Cavitation Control describes a wide range of solutions such as Flowserve's ChannelStream and Multi-Z trims, which eliminate cavitation and help customers save money."*

A free copy of the publication is available for download at www.flowserve.com



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HSP + Maxseal = Success

H.S.Pipeequipment Exclusive stockist in the UK for Maxseal Solenoid Valves

H.S.Pipeequipment (HSP), the market leading valve stockist and distributor to the Oil, Gas and Petrochemical sector, has for 5 years been the exclusive stockist in the UK for Maxseal's range of solenoid valves and ancillaries. Stock is held in strategically located HSP operations in Aberdeen and Teesside, where ultra quick and even same day deliveries are available.

Maxseal solenoid valves have over 50 years of experience operating in the worlds most extreme and hazardous environments. The range sets rigorous standards for safety on ESD, HIPP Systems and process control in the most demanding environments for the worlds offshore and petrochemical industries. The Maxseal range includes the market leading IC04S EExd direct acting solenoid valve, the IC02S EExia Pilot operated solenoid valve and following the phenomenal success of the IC04, over the last five decades, the Compact IC03S solenoid valve has evolved. All Maxseal products utilise the same stringent design and performance, all of which are SIL certified and have full ST ST construction accreditations.

H.S.Pipeequipment were recognised by a leading UK refinery to source Maxseal solenoid valves, due to their comprehensive stock and off the shelf deliveries. Upon visiting the site, HSP identified an existing solenoid valve that had been in operation successfully since the early seventies required replacing in order to meet with the SIL legislation that was being brought into place. The Maxseal IC04S valve needed certifying to SIL 3 standard and to replace SIL 4 to a redundant mode. Furthermore, Maxseal and HSP provided a cost effective solution by the replacement of a like for like IC04S valve some 30 years later.



Effective safety practise is an absolutely imperative. With the assistance of the MTBF information gathered from many blue chip end users, it is established that they would use nothing less than the market leading manufactures like Maxseal and leading stockists and distributors such as HSP. When it comes to safety, why settle for anything less. You can feel confident of the safety and integrity of Maxseal products having been assessed through genuine field delivered data as oppose to lab conditioned supplied data that many manufacturers submit.

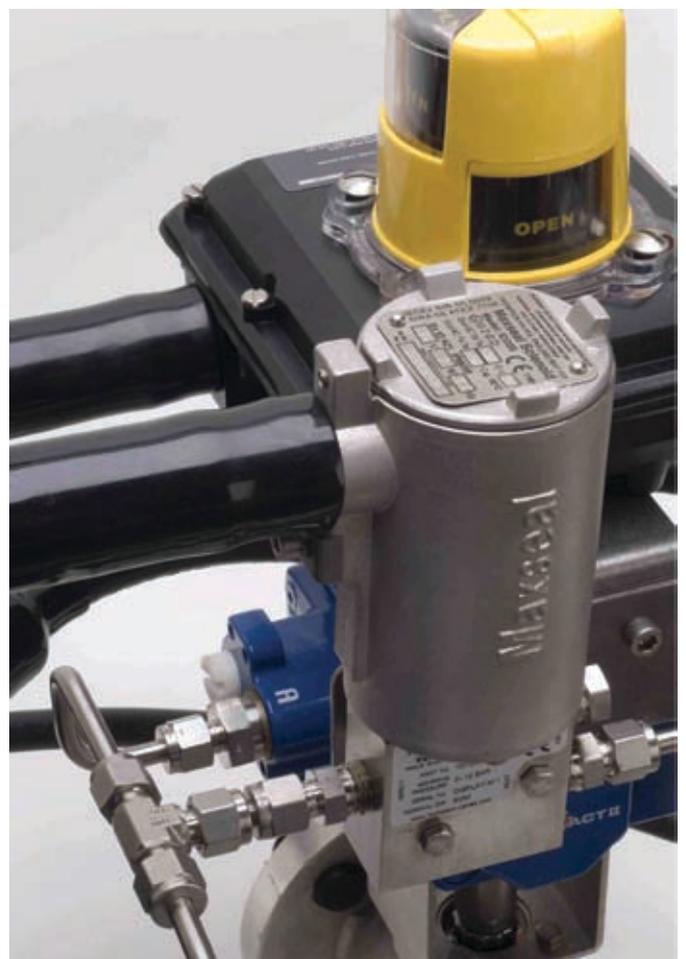
Maxseal are committed to continuously developing their product range

to support and meet the exacting standards in the Chemical, Gas Turbine, Naval, Nuclear Power, Offshore, Petrochemical and Pharmaceutical applications. This is apparent through their latest IC03S EExd solenoid valve, which now has a low power consumption of two watts and is available as a Namur mounted, direct acting valve. This alleviates the need for a pilot, which is commonly found in most Namur designed valves, making the IC03S EExd a much safer design.

H.S.Pipeequipment has doubled its inventory to hold over £5M and stocks a range of Maxseal products available from 1/4" to 4" solenoids with various voltages and pressure ranges up to 414 bar. Maxseal quality is available as an off the shelf item with many end users and OEM manufacturers benefiting from the stocks carried by HSP and the companies expertise in the actuator and associated controls market.

As a world-leading supplier of valves to the Oil, Gas and Petrochemical industry since 1979, H.S.Pipeequipment offers a second to none service and prides themselves on their market leading products, experience and relationships that they bring to the industry.

To discuss how H.S.Pipeequipment could benefit your company please visit www.hsp.co.uk or alternatively call 01642 608999





Adanac Aid Comic Relief



Staff at Adanac Valve Specialities recently raised a total of £200 for Comic Relief... by spending all day 'dressing up' in some form or another!

Adanac's Craig Richardson reports that staff members all had a great time, and shared cream cakes and fancy dress, with much fun had throughout the day. Why not see if you can spot someone you know.

people turn their lives around across Africa, throughout the world's poorest countries and closer to home such as in the UK.

Note: The money raised is spent by Comic Relief to help poor, vulnerable and disadvantaged

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Safety Valves

Thursday 8th October 2009:
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Safety Integrity Levels (SILs)

Friday 9th October 2009:
Banbury, £155+vat



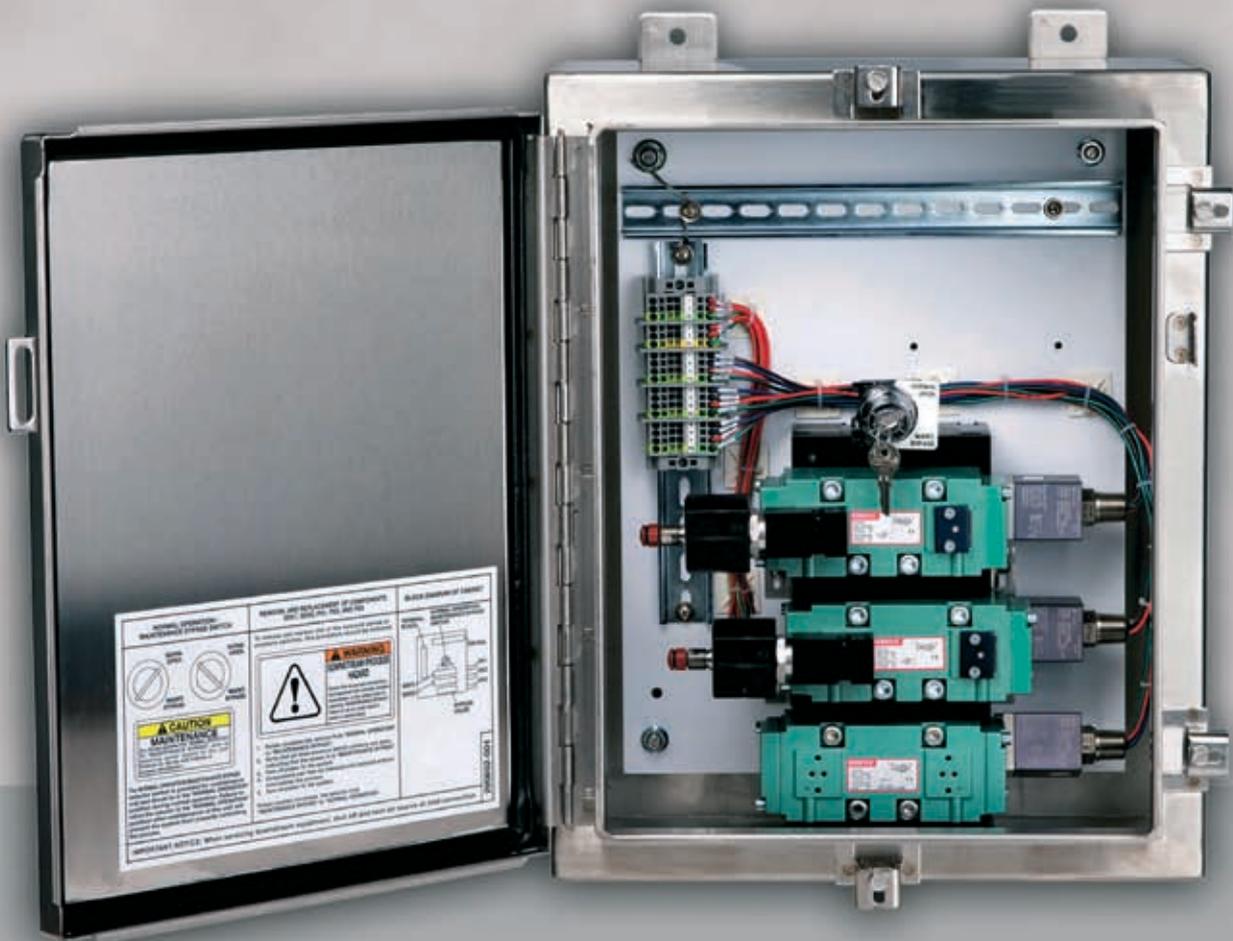
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ASCO Numatics - Aseptic Diaphragm Valves

ASCO Numatics Introduces New Range of High Quality, High Performance Aseptic Diaphragm Valves

Unique design innovations enable reduced cleaning cycle times

ASCO Numatics introduces an extensive range of high quality, high performance aseptic diaphragm valves. The new valves have many applications in the pharmaceutical, cosmetics and life science markets and their enhanced CDSA (circumferential defined sealing angle) design, enables savings to be made in the time taken for system cleaning and sterilising. The enhanced sealing performance and the elimination of crevices at the diaphragm joint, enables Steam In Place (SIP) cycle times to be reduced and the time and chemical volume of Clean in Place (CIP) systems is also reduced.

The new range of valves comprises the KMD, KMA and Steripur styles, all with stainless steel 316L bodies which have contoured and streamlined surfaces and are self draining. The Steripur is a high cycle, piston design with stainless steel actuator. Its compact design makes it particularly suited to manifold valve assemblies which are commonly used in food and beverage applications. The KMA range features a diaphragm or piston actuator with stainless steel support and is ideal for steam applications. The compact KMD range has a highly smooth exterior making it suitable for washdown applications. All the valves are available with the option of a hand wheel and optical indicator, as a manually operated alternative to the actuated version.

Available in sizes from DN4 to DN100mm (1/4" - 4"), the range is completed with the option to supply as a welded assembly - designed to minimise the number of

welds, or as a multiport design for mixing and blending applications. The multiport designs are compact and can be made to a customer's specific requirements. All variations are designed to reduce dead legs in accordance with current good manufacturing practices (cGMP's).

Tested and approved to EHEDG document N°8, ASCO Aseptic valves feature a circumferential defined sealing angle which, compared with valves with a conventional seat body, provides a number of important operational benefits. These include no dead volume, reduced cleaning times in SIP systems, reduced time and chemical volume of CIP systems and better sealing performance. A further design innovation is the flexible diaphragm suspension which extends operating life and provides better sealing performance.

Diaphragms are available in a choice of materials, EPDM, EPDM and PTFE (1 piece) and EPDM and PTFE (2 piece) to match the application, and all are interchangeable without changing the valve compressor or spindle. Accessories for the valves include optical position indicator and stroke limiter, top control box with AS-i interface, mechanical switch for the open position, manual override and support for inductive switches.

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Three Great Products - One Committed Supplier Another Successful Year for Curtiss Wright Flow Control UK

Solent & Pratt

Solent & Pratt had an exceptional 2008 for orders and coupled with a number of firsts for the company, closed the year on a high.

An order was received for six 138" cooling water isolation valves for use on a major UK power station, thought to be some of the largest butterfly valves supplied to a UK site and will be installed in May 2009. The order provided the purchasing & design teams with a number of challenges all of which were overcome to the satisfaction of the client. Ductile iron castings for body and disc were placed with the UK foundry Coupe in Lancashire.

Another prestigious order was secured for almost 400 valves to be supplied to the North Rankin platform off the northwest coast of Australia. S & P worked closely with the client to offer technical solutions to problems previously experienced with other valves and equipment installed in the very corrosive off shore environment in this part of the world. 32 of the valves are pneumatically operated ESD & SDV butterfly valves fitted with Rotork actuators and Emerson DVC 6000 foundation field bus valve controllers, used to monitor the valve signature and allow partial stroking of the valve.



S & P fulfilled an order for a number of ESW valves in sizes 36" & 40" for a UK nuclear power station. The valves, classified as ASME III class 2, had to be supplied with very stringent testing and material requirements along with detailed design & qualification documents.

The continuing investment at the Bridport plant will ensure that the name of Solent & Pratt will be synonymous with quality and the ability to rise to the challenges set by the customer.

Farris Engineering

Farris Engineering for more than 65 years has been a pioneer in the design and production of pressure relief valves serving the processing industries. Today it remains a recognised leader with global capabilities.

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Farris Engineering is your Best Value Provider, offering superior customer service, high quality, competitively priced products and best in class delivery. We understand what our customers want and make it happen.



Sprague Products

Sprague Products has been around for over fifty years supplying Air Driven Hydraulic Pumps, Gas Boosters and Portable Testers. Based in Bridport, Sprague Products UK keeps a well equipped stock of pumps, spares and accessories along with a wide range of Nova Swiss VFT s. This enables us to carry out quick deliveries around Europe and the UK, supporting customers and many of our thirty- eight International Distributors.



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email: salessp@curtisswright.com

web: www.solentpratt.com

Rotork appoints UK distributor for Remote Control valve actuators



Pegler & Louden

Rotork Fluid Systems announces the appointment of Pegler & Louden as exclusive UK stockist and distributor for the Remote Control product range of pneumatic valve actuators and accessories. Remote Control is a well established Swedish-based manufacturer of these products, with a worldwide reputation for quality and service, which has been part of the Rotork Group of Companies since February 2008.

special materials including offshore corrosion protection. Manufactured under strict ISO 9001 quality control standards, the actuators are CE marked in accordance with PED and ATEX. The RC200 series also meets all international standards for the quick and easy fitting of actuators to valves and accessories such as solenoid valves, switches and position indicators.

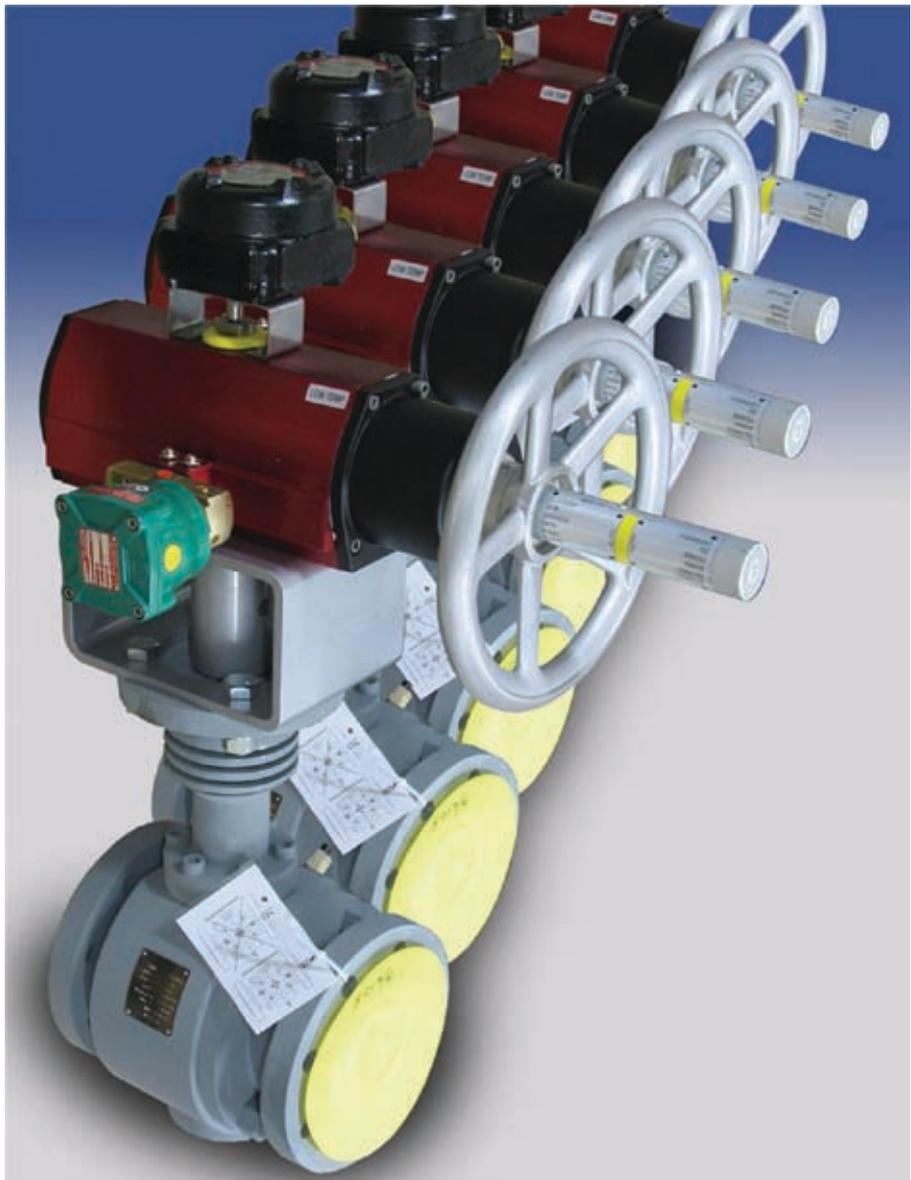
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Pegler & Louden is the valve and flow control specialist organisation within BSS Industrial, the distribution network serving the heating, plumbing, pipeline and mechanical services industries. Staffed by experienced engineers and technicians, Pegler & Louden offers a professional service to meet customer requirements for actuated valve process applications and other packages. Based in Nottingham, the division has the full logistical support of more than fifty-seven BSS branches nationwide.

Central to the Remote Control product offering is the RC200 pneumatic actuator series, with its intrinsic benefit of scotch-yoke torque technology, providing higher torque values at the valve end positions. The design is smooth operating with a soft starting and finishing motion to protect and extend the valve's working life.

Available in double-acting or spring-return configurations, these compact actuators are available with a range of options including manual override and



Ball valves equipped with Remote Control RC200 range pneumatic actuators, packaged with solenoids, switchboxes and handwheels.

Econosto UK at Process Engineering Live

Econosto UK exhibited alongside their sister company ERIKS UK at this year's Process Engineering Live in Manchester.

Despite this being the first ever Process Engineering Live event, it proved to be a very successful two days for Econosto with a good quantity of quality prospects visiting the stand and plenty of appointments made. Our North West Area Manager, Mark Furlong was kept busy with most of the visitors coming from his area but there were still a significant number from further afield including one as far as Nigeria.

econosto

As well as a range of valve products which, coupled with the ERIKS offering of hoses, gaskets and sealing technology generated a good deal of interest, Econosto were also showing a demo version of their soon to be launched e-store.

Overall, the event proved to be a good one for the company and will no doubt go from strength to strength.

Econosto UK Ltd.
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Mark Furlong, NW Area Sales Manager, talks to a customer on the Econosto stand.

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Clive Gamble, Managing Director, discusses a customer's valve requirements.



The Rotork ROMpak Model ROM2 valve actuator

South East Water awards valve actuation framework agreement to Rotork

Rotork introduces compact electric actuator solution for marine valve applications

The new Rotork ROMpak range of electric actuators has been introduced to offer the marine industry a lightweight, economical and compact solution for the operation of quarter-turn valves and dampers, with a comprehensive choice of control, instrumentation and diagnostic options. These options now enable shipboard valve functions to be set-up, controlled and monitored with the same degree of efficiency, accuracy and flexibility as the most up-to-date process systems.

The ROMpak actuators retain all the mechanical benefits of the popular original Rotork ROM design, including self-locking gears, manual override, externally adjustable mechanical stops, a wide range of mains power options and an IP67 watertight enclosure. The ROMpak actuator adds a self-contained control package with local controls and status indication relays and the option of Rotork Folomatic positional control, current position transmitter, integral data logger, non-intrusive configuration with a Bluetooth wireless interface and digital bus network connectivity.

Network connectivity, which includes Rotork's dedicated Pakscan and the Profibus, Modbus and Foundation Fieldbus open protocols, is also configured by Bluetooth, as is the recovery of historical operating data from the data logger for valve diagnostics and maintenance planning.

The three actuator sizes in the ROMpak range provide operating torques from 35 to 650Nm and are suitable for ambient temperatures of -5 to +60°C.

The first orders for ROMpak actuators include applications on new naval vessels being built for an Eastern European country. In addition to new installations, the actuators are easy to retrofit on existing valves and Rotork's specialist Site Services organisation is available on a worldwide basis to offer advice on or to implement this activity.

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Internet: www.rotork.com

Rotork's position as the leading supplier of electric valve actuation products to the UK's water industry has been further strengthened by the award of a framework agreement by South East Water.

The framework will run for three years, with the option to extend for a total of five years, and covers Rotork's IQPro, IQTPro, AWT and Q ranges of multi-turn and quarter-turn electric valve actuators. These products have been widely used for many years at treatment plants owned by South East Water and Mid Kent Water. In December 2007 these two companies merged to create an enlarged South East Water, which now supplies top quality drinking water to 2.1 million customers in Kent, Sussex, Surrey, Hampshire and Berkshire.

Rotork's South East Water framework joins a growing list of similar agreements in the industry, where Rotork's intelligent actuation technologies, with network control options including Profibus, Modbus, DeviceNet and Pakscan, combine reliable, automated valve control with a low cost of ownership to facilitate the efficient operation of modern water and wastewater treatment processes.

Emerson Enters into Supplier Services Agreement with Fluor Corporation to Provide Automation and Control Solutions and Services

Emerson Process Management has been selected as a preferred supplier of automation and control instrumentation and services to Fluor Corporation. The two global industry leaders have entered into a Supplier Services Agreement to collaborate on development and implementation of processes intended to improve the management and execution of worldwide capital projects.

Fluor used a rigorous analysis and evaluation process to select Emerson as a supply partner. As a Fluor preferred automation and control supplier, Emerson will support risk mitigation efforts on large projects involving automation and control instrumentation and services.

Headquartered in Irving, Texas, USA, and with offices in the UK and Ireland, Fluor is one of the world's leading publicly traded engineering, procurement, construction, operations, maintenance, and project management firms. It has procured more than \$60 billion of equipment, materials, and services over the last decade and manages more than 1,000 projects annually. Fluor's customer's span key industries, including energy, chemicals, life sciences, water, transportation, manufacturing, government, and power production, including alternative power.

"Due to the depth and breadth of Emerson's technology, products and services, as well as our global supply chain, we can greatly contribute to risk mitigation in important areas of project delivery and execution such as schedule, cost, quality, and safety," said Lance Boudreaux, Fluor account director, Emerson Process Management. *"We bring the industry leading technology, expertise, and resources from more than 15 different Emerson divisions that are involved in this global strategic supply agreement with Fluor."*

Through the strategic supply agreement (known as a SRA Agreement within Fluor), Emerson will supply its complete product range and services that comprise PlantWeb® digital plant architecture, including its Fisher® FIELDVUE® digital valve controllers and valves, Rosemount® transmitters, Rosemount Analytical analysers, Daniel® flow meters, and Micro Motion® Coriolis flow meters. Also supplied will be PlantWeb process control and asset optimisation technologies including DeltaV™ and Ovation® digital automation systems, and AMS® Suite predictive maintenance software; Emerson industrial drives from Control Techniques; motors from US Motors® (NEC) and Leroy-Somer® (IEC); Bettis®, Hytork®, and EI-O-Matic® actuators, as well as Emerson Industrial Automation™ Appleton® (NEC) and ATX® (IEC) electrical construction material products.

The SRA relationship between the two companies allows their mutual end users to benefit from efficient project development, execution, and design, including through early supplier integration. This process, coined by the Construction Industry Institute (CII) as PEpC (Procure strategic suppliers, Engineering, procurement transactions, Construct), was demonstrated in a CII study to significantly reduce project time and improve overall project efficiencies.

For more information, visit www.Emerson.com



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Emerson's 'QUICK SHIP' Service

Emerson's 'QUICK SHIP' Service Enables Short Lead Times on Rosemount® Pressure and Temperature Transmitters

Two day despatch now available on a range of standard Rosemount transmitters to meet urgent requirements

Emerson Process Management has announced the introduction of the 'QUICK SHIP' service for a range of standard Rosemount® pressure and temperature transmitters. The 'QUICK SHIP' programme has been developed to meet urgent requirements when standard deliveries could result in unacceptable delays and lost production. The new service will initially be available to customers in the UK, France and Germany, and then extended to cover other European countries.

'QUICK SHIP' enables a range of Rosemount transmitters and sensors to be assembled, calibrated and tested ready for despatch from Emerson's manufacturing facilities in Germany, within two working days of receipt of an order. Despatch from the factories in Wessling (for pressure transmitters) and Karlstein (for temperature transmitters) to customers is through an extensive logistics network which provides many options for speedy shipment. Alternatively, customers can arrange for collection from either plant if required.

"The products that are available within this programme will meet many of our customers needs for urgent replacements," said Richard Heinkel, general manager

for European pressure and temperature manufacture, Rosemount division of Emerson Process Management. *"This means that rather than having to wait 7 to 10 working days for a replacement product, a new transmitter can be on site in two or three days, minimising plant downtime and lost revenue."*

Emerson has made a significant investment in the resources and infrastructure at both plants and has introduced streamlined procedures in line with the latest lean manufacturing techniques. The 'lean' procedures also extend out to the sales offices. The new procedures and dedicated production lines will enable 'QUICK SHIP' orders to be fulfilled within the promised timescale.

The range of products available on 'QUICK SHIP' includes all standard Rosemount pressure and temperature transmitters, manifolds and temperature sensors. When an order for these products is placed with the local sales office, customers will be offered the 'QUICK SHIP' option for any urgent requirements. 'QUICK SHIP' orders will follow a different route through order processing and on to the manufacturing plant in order to meet the two day delivery time.



Emerson's 'QUICK SHIP' service provides a two day despatch on a range of standard Rosemount pressure and temperature transmitters

For full details of products available through the 'QUICK SHIP' programme, please contact your local sales office.

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Dedicated production lines will enable Rosemount pressure and temperature transmitters to be despatched in just two days using Emerson's new 'QUICK SHIP' service

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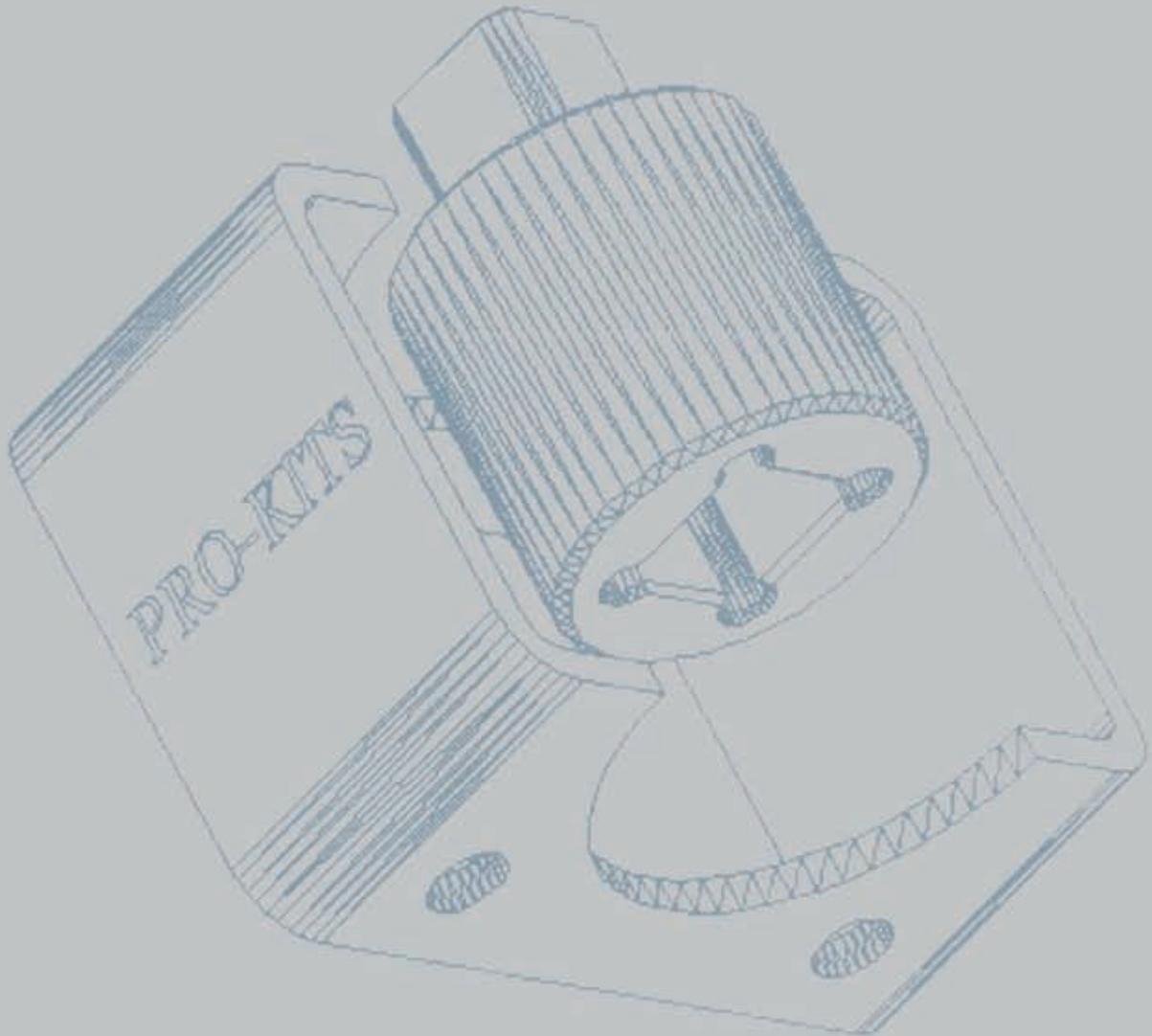
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For full details on each course, see <http://www.bvaa.org.uk/training>

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Flowserve Nuclear Success



Flowserve Receives Additional Valve Orders for Two Westinghouse AP1000™ Nuclear Power Plants in China

Flowserve Corporation, a leading provider of flow control products and services for the global infrastructure markets, has confirmed receipt of two significant orders from Westinghouse Electric Company for AP1000™ nuclear power projects in China.

Flowserve announced in May 2008 that it received an order to supply main steam isolation valves for two Westinghouse nuclear power plant projects in China. Since that time, Westinghouse has also placed additional safety related valve orders to include main feedwater isolation valves and motor-operated gate and globe valves for two AP1000 Westinghouse nuclear projects in China.

“These orders signify our continued leadership position in the nuclear power market and reinforce our commitment to this industry in supplying valves for nuclear power plants and in particular, our ability to meet our customers’ stringent quality requirements,” said Lewis Kling, Flowserve President and Chief Executive Officer.

These additional orders were recorded as bookings in 2008. The latest order, booked in fourth quarter 2008, represents the first motor-operated valves (MOV) to be purchased for the new Westinghouse AP1000 reactor. The MOV order includes Flowserve Anchor/Darling gate valves, Flowserve Edward globe valves, and Flowserve Limitorque motor operators.

“We were pleased to have received these additional valve orders from Westinghouse for their new passive AP1000 nuclear power plant design,” said Tom Pajonas, President

of the Flowserve Flow Control Division. *“Flowserve has the uncommon ability to design, produce and service nuclear safety-related motor-operated valve packages, as both the motor operator and valve manufacturer.”*

The new plants, located in Sanmen, Zhejiang province, and Haiyang, Shandong province, are expected to be operational in 2013 and 2014, respectively. Westinghouse was selected to supply a total of four AP1000 nuclear power plants in China.

Flowserve Flow Control (UK)
Tel: 01444 314400



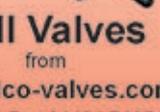
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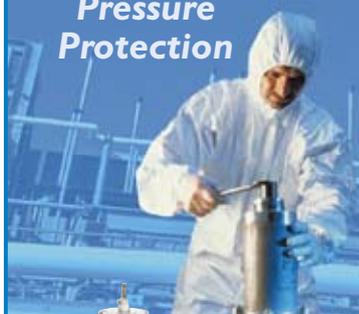
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Definitive guide published for rotary sealing applications

A new publication is proving an essential time-saving tool for engineers working on rotary sealing issues.

The new guide, from fluid sealing specialist James Walker, has been published in two parts and focuses on the company's Walkersele® high-efficiency radial lip seals.

Part one covers the selection of the correct seal design and material combination to suit each specific rotary application. The highly detailed guide takes the user through operational parameters, performance, material compatibility, housing design and retention methods. This not only helps in accurate seal specification but is of great assistance in allowing housing and retention issues to be addressed at the design stage. With the ideal seal / housing / retention combination as an integral part of the design, operational problems can be eliminated.

Additional features within the new Walkersele guide include a detailed section on seal installation techniques,

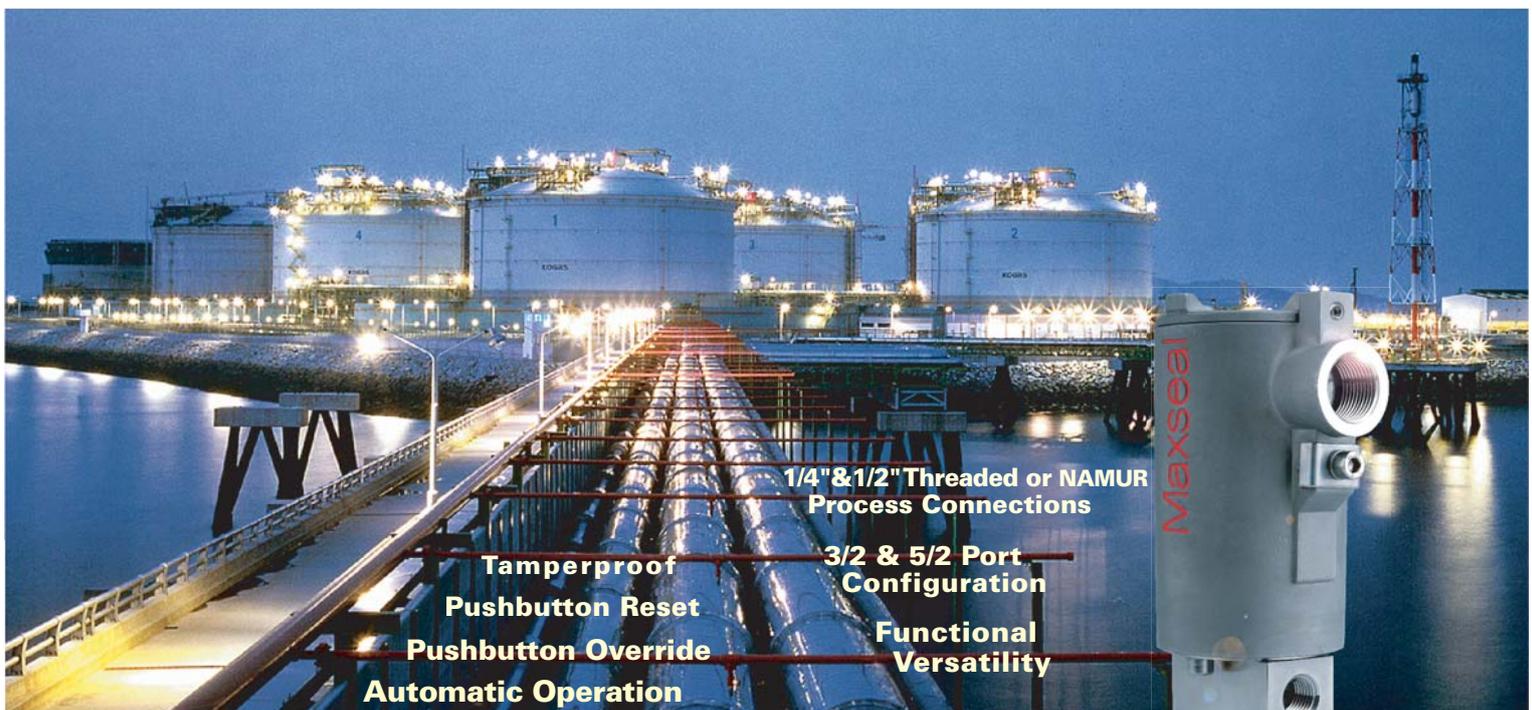
including James Walker's patented OSJ® On-Site Joining technique, plus operational considerations for worn shafts, highly abrasive or corrosive environments, shaft and housing surfaces, and lubrication.

Range charts cover both standard metric and inch sizes for split and endless seal variants. This combines with part two of the guide — the Walkersele Mould List — which presents details of over 4500 Walkerseles for which tooling is held, including a range of large diameter TBMS tunnel boring machine seals.

"Using this new publication will speed up the whole ordering and delivery process for customers, whether they require a product from our standard mould list or are creating specifications for a custom seal," comments James Walker & Co product streams operations director Geoff Teasdale. *"New tooling for non-standard sizes can be in-house designed and manufactured within days and by using our new guide, customers will be confident that they are specifying the best possible solution for their rotary sealing application."*

The two-part Walkersele Guide can be downloaded in PDF format or a hard copy of Part One ordered directly from the company's website at www.jameswalker.biz

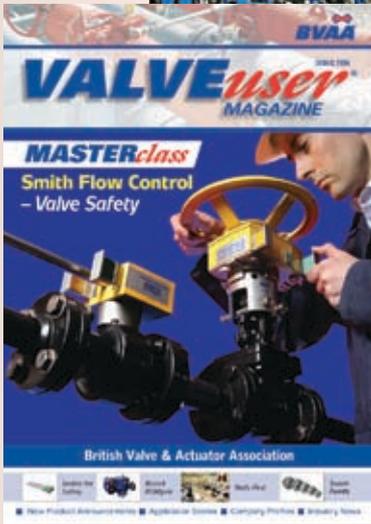
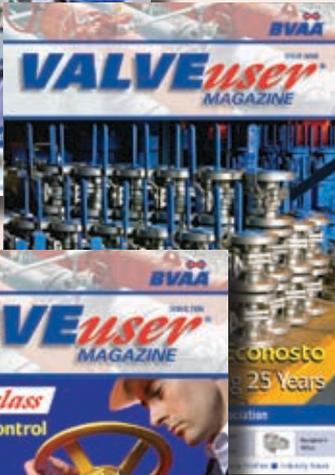
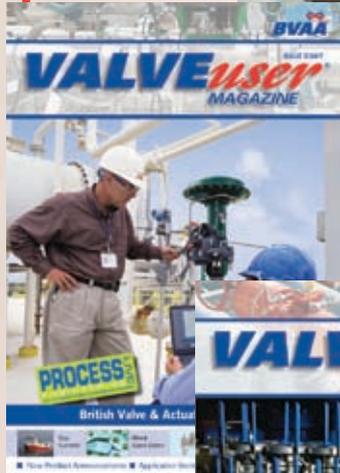
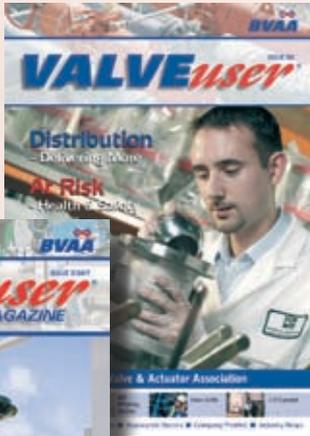
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Hardide Coatings develops new coating for titanium

Hardide Coatings has made a significant technological breakthrough by successfully developing a new Hardide coating process specifically for titanium. The tungsten carbide-based coatings company has successfully coated its first titanium components for customers in the UK and US, and components manufactured from titanium can now benefit from the unique wear, abrasion and chemical resistant properties of Hardide.

Dr Yuri Zhuk, Technical Director of Hardide said: *"Titanium is often used in performance-critical, high load-bearing and weight sensitive environments that are ideally suited to Hardide's unique combination of properties. However, it is a technically challenging material and suffers from intense galling which limits its use in conjunction with traditional coating methods such as titanium surface oxidising, spray coatings and plating. Coating with Hardide has prevented titanium galling and has shown an excellent load-bearing capacity with an absence of wear, even*

under high load. Furthermore, Hardide demonstrates strong coating adhesion and doesn't require grinding to finish. The ability to coat titanium with Hardide will open up a range of new possibilities for engineering design."

The titanium project has been in research and development for five years but has been fast-tracked over the last twelve months to meet increasing customer demand from the aerospace, defence and Formula 1 industries.

The company is now processing small scale commercial applications for customers in these sectors and plans to treat regular batches of volume parts later this year.

The UK business, Hardide Coatings Ltd., has recently successfully completed stage 1 of the aerospace industry standard AS9100 certification with full certification scheduled for 2009.

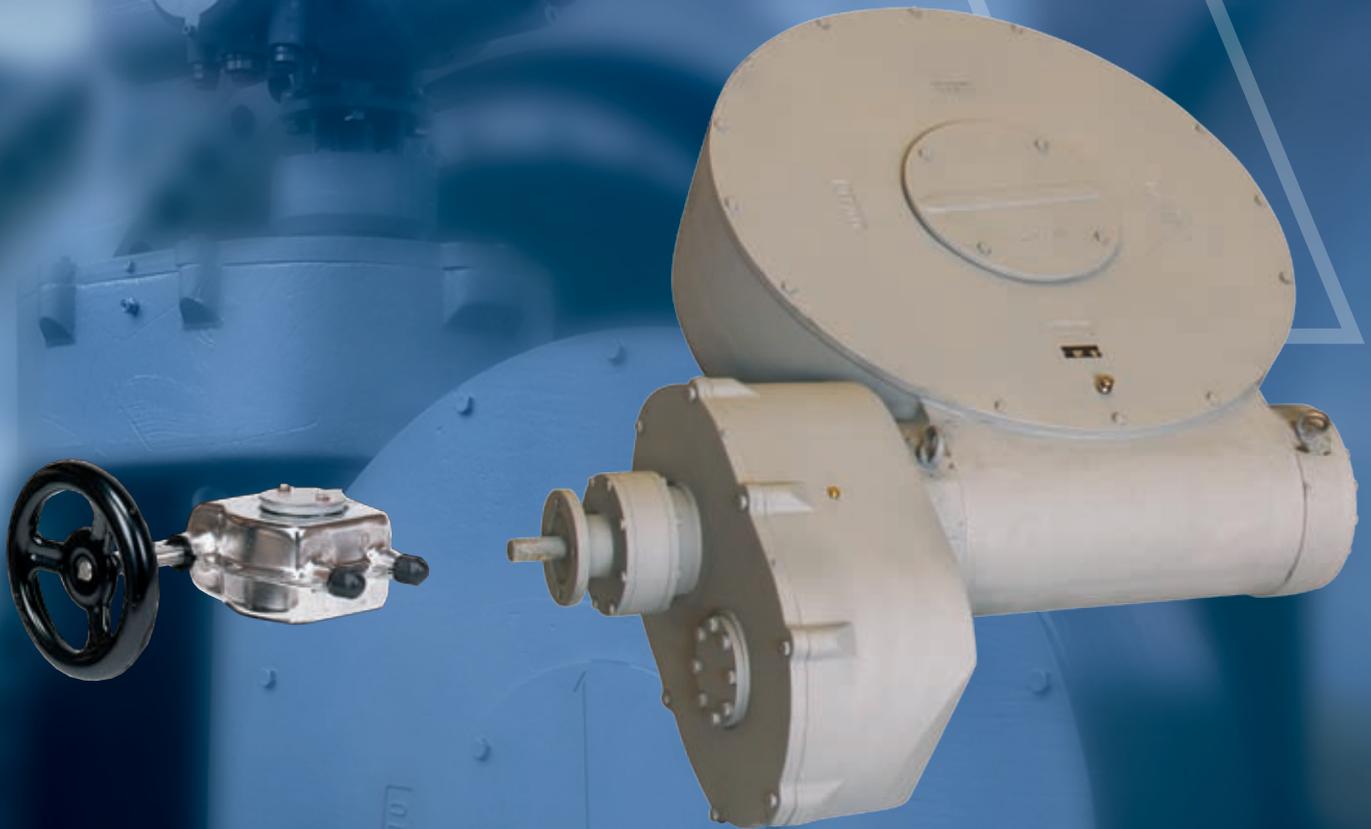
Hardide Coatings manufactures and applies tungsten carbide-based coatings to a wide range of engineering components. Its patented technology provides a unique combination of ultra-hardness, toughness, low friction and chemical resistance in one coating. When applied to components, the technology is proven to offer dramatic cost savings through reduced downtime and extended part life. Customers include leading companies operating in oil and gas exploration and production, valve and pumps manufacturing, general engineering and aerospace.

The Group has manufacturing plants located in Bicester, UK and Houston, Texas, USA.

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Flow Control

New Flowserve Software Simplifies Actuator Configuration, Diagnostics

Flowserve Dashboard Allows Bluetooth® Connectivity with Limatorque MX and QX

Flowserve Corporation has announced the release of Flowserve Limatorque MX/QX dashboard software, a program that allows customers to communicate with Flowserve Limatorque MX and QX actuators via Bluetooth® for quick and easy remote configuration and diagnostics, both online and offline.

“The Flowserve Limatorque MX/QX dashboard software helps our oil and gas, power and water customers save time and money by allowing users to easily and rapidly configure

Limatorque MX and QX actuators,” said Earnest Carey Jr., Product Manager, Flowserve Limatorque. *“With Bluetooth connectivity, Limatorque MX and QX customers can use the new dashboard software to evaluate actuator performance and make necessary adjustments wirelessly.”*

The dashboard software allows users to configure the actuator in real time, or use the offline mode to program and save unit configuration to a PC or PDA to upload once a Bluetooth link is established. Diagnostics can be easily downloaded from the actuator to a PC or PDA to be saved, analyzed or e-mailed by the program to Limatorque for evaluation.

Bluetooth, an optional feature for Limatorque MX and QX actuators, contains Frequency Hopping Spread Spectrum (FHSS), which enables reliable remote communication even in “noisy” environments. Bluetooth communication is accessible up to 10 meters (30 feet) from the actuator

in all directions. The privacy of the link is ensured with 128-bit data encryption and password protection. The dashboard can communicate with Bluetooth-equipped PCs, PDAs or cell phones compatible with the Microsoft Windows® Mobile platform and the MX/QX dashboard actuator diagnostics graphical user interface software.

The software is free for Flowserve customers who select the Bluetooth option for their Limatorque MX or QX actuator. For a nominal fee, customers can purchase the dashboard for actuators with an IrDA port, which comes standard with each unit. To get a copy of the software, contact Earnie Carey at ecarey@flowserve.com

The Limatorque QX, introduced in 2009, is a quarter-turn, smart electronic valve actuator designed to enhance safety and reduce downtime through improved diagnostics, built-in self-test (BIST) features and LimiGuard™ fault protection capabilities. The Limatorque QX includes a patent-pending absolute encoder, which tracks position without the use of batteries.

The Limatorque MX is the first-generation smart electronic valve actuator from Flowserve. Introduced in 1997, the MX is a smart multi-turn actuator designed to provide control, ease of use and accuracy.

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