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Focus
Inside



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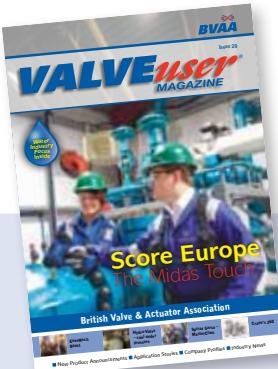


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As well as a printed copy, VALVEuser magazine is also available as an email attachment, and as a download from BVAA's website, www.bvaa.org.uk

Comment

The 'R' Word – Again!

Welcome to the latest edition of Valve User magazine!

As I write the news is full of stark warnings about another UK Recession, occasionally even, for emphasis, 'Double Dip Recession,' should we somehow have forgotten it's not that long since the last one! I must say it's rather depressing to hear our media obsess about it, and there's an element of self-fulfilling prophecy about the whole sorry business.



It's pleasing to report therefore that BVAA members remain extremely competitive in a challenging marketplace. Pressures at the moment seem to revolve more around expediting hard-won orders, rather than a wider absence of business *per se*. Lessons also appear to have been learned in our customer base regarding the false-economies associated with sourcing from 'low-cost' (low tech) countries, however superficially attractive they may seem at first.

by BVAA Director, Rob Bartlett



It's a pity however that some countries still covertly sanction the counterfeiting of respected western brands. Something robust must be done about this, and perhaps the UK Government would be better engaged in actively fostering and protecting exports, rather than, as I heard this morning, accepting that the UK would 'never' see its deficit below £1 trillion again. Not an especially cheerful prospect.

It's fashionable for Governments to put bankers under the lash at the moment for making such a mess of the global economy. However I was intrigued to learn that a number of the 'central pillar' Governments of the Euro 'massaged' the figures to allow the admission of poorly performing southern European countries who, to put it plainly, could not possibly have qualified otherwise. I wonder if these countries rue the day they signed up? For example, I was shocked to hear the unemployment rate for the under 25s in Spain and Greece is now 50%! This is terrible.

Britain chose to retain the Pound Sterling, amid much criticism, and a fair bit of angst, but it has lately provided the UK with some distinct business advantages, as it has to our overseas customers. Somewhat tongue in cheek, I have to say that an accounting system comprising 4 farthings to a penny, 12 pennies to a shilling, 20 shillings to a pound (or 21 for a Guinea!) with multiples called 'thrupenny bits', 'tanners', 'bobs' and 'half-crowns', was so incredibly complex and opaque to outsiders, we held the respect of the world for our mastery of currency! Decimalisation has a lot to answer for!

Cover: Non invasive valve leak detection receives the Midas touch from Score Group Plc. Score trainees carry out in-house familiarisation training with latest Midas Meter, more info at www.midasmeter.com



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BVAA News

Mad Hatters

How far can you go wearing a BVAA Hat?



The BVAA Hat continues to travel, albeit closer to home this issue. Pictured is regular 'Hat' competition winner Graham Lomax of Polyflor Ltd, but where is he? There's £50 to the charity of your choice if you're the first to deliver a correct answer to rob@bvaa.org.uk



Corliss Mystery

Despite the great depth of knowledge of old valves in the industry, no-one was able to name the (allegedly) Huddersfield-made 'Corliss Valve' featured in the last issue aboard a Pollit and Wigzel steam engine. J.W. Jarrett of Radlett Valve identified it as a Screw Lift Globe Valve. However Gil Richards of Gilbert Industries noted that the Corliss Valve – which internet research reveals as a USA invention - was associated with the Jordan sliding gate regulator and control valves, first used in 1947, which formed an important part in the formation of the Richards Industries Valve Group. Like all 'old valves' there's a tale to tell. If anyone can shed further light on Corliss, Rob Bartlett would be delighted to hear from you.

BVAA Grand Prix



Left to right: Laurence 'Dizzy' Kettle, Peter 'Blue Flag Again?' Churm, Peter 'Burn Up' Burnett, Peter 'Electric's Better' Hirst, Rob 'Why's Mine Slow?' Bartlett and Adrian 'Grip Loss' Jefferies



The magnanimous victor, Peter Burnett



'Where did it all go wrong?' Studying the race stats.

(Heaps) took the honours, with messers Bartlett and Kettle sharing the podium.

The following Chair's meeting was to re-energise and re-focus the Association's technical and commercial Conferences Programme – look out for further announcements in the coming issues. If you have a technical or commercial paper you think would be of interest to the valve industry and customer base, contact rob@bvaa.org.uk.

Innovation Showcases

In November 2011 BVAA held two more of its renowned 'Innovation Showcases' for major clients and customers of the valve and actuator industry.



BVAA filled two rooms for a mini Exhibition at Amec London

Amec London

On 8th November, 14 BVAA members played host to over 60 Amec staff and guests at the company's Old Street, London offices. This is the sixth such exhibition Amec have hosted in recent years, alternating between their Aberdeen and London facilities. As an added bonus the two exhibition rooms were on the Clair Ridge project floor, resulting in surprise visits from a number of interested BP staff.

Score Europe Peterhead

On 15/16th November, BVAA were hosted once again by Score Europe at the impressive VITAL facility in Peterhead. Now a bi-annual occurrence, this Innovation Showcase event started with a dinner



Valve Industry Innovation at Score Europe

the evening before, generously sponsored by Score Europe themselves. The following day twenty-four BVAA members received over 130 Score staff and customers, each member displaying an innovative new product, service or initiative. A full report is given on page 48.



Meetings Timetable

BVAA has announced a number of committee and working group meeting dates for the spring. These include:-

- Seals WG: 6th March 2012, BVAA HQ
- Valve WG: 8th March 2012, Castings Technology International
- Actuator WG (with BSI PSE/18/5): 27th March 2012, BVAA HQ Banbury
- Steering Group: 14th March 2012, BVAA HQ
- Executive Committee: 15th March 2012, BVAA HQ



A packed October 2011 'Introduction to Valves' course

Spring Training Dates

We are delighted to announce that the Spring 2012 Training dates are:-

- Introduction to Valves - 16 April
- Introduction to Valve Actuators - 17 April
- Control Valves - 18 April
- Safety Valves - 19 April
- SILs - 20 April
- Managing Commercial Risk - 23 April
- PED/ATEX - 24 April
- Basic Seals - 25 April
- Intermediate Seals - 26 April

A reminder that BVAA members receive a 30% discount on most courses. Also that our expanded facility at Banbury means that we

can accommodate many more students than before (and discounts are therefore available for bulk bookings).

Bespoke Courses

BVAA is working with one of its members to introduce a valve training programme for the company's new starters, and a non-member organisation is looking to bring their team back a second time for some additional training on safety valves. BVAA would be delighted to tailor a training programme to meet your needs, either at BVAA HQ or at your own facility. Just give us a call to discuss the options available. See the webpage below for further information or contact Karen@bva.org.uk.

www.bvaa.org.uk/training_courses.asp

ACHEMA Exhibition

BVAA will be attending Achema – The world exhibition congress on Chemical Engineering, Environmental Protection and Biotechnology, held in Frankfurt, Germany.

The next Issue of Valve User (Issue 21) will be our main hand-out at the show, members be sure to submit copy by May 1st to secure your position in our Achema Issue.

Please visit the BVAA stand at Hall 9.0 Stand A69

BVAA Group Stand at Valve World 2012

We are delighted to announce that BVAA and our American equivalent VMA will be representing five industry specialists as part of our Group Stand at the Valve World exhibition in Dusseldorf, in November. Our associates include: Maher, Total Carbide, Mogas, Dynamic Ceramic and DFT, Inc. We have a prime position in Hall 4, Stand C21 and BVAA are hoping to once again host an evening reception event on the first evening of the exhibition (27th November.)



The proposed Group Stand at Valve World

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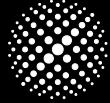
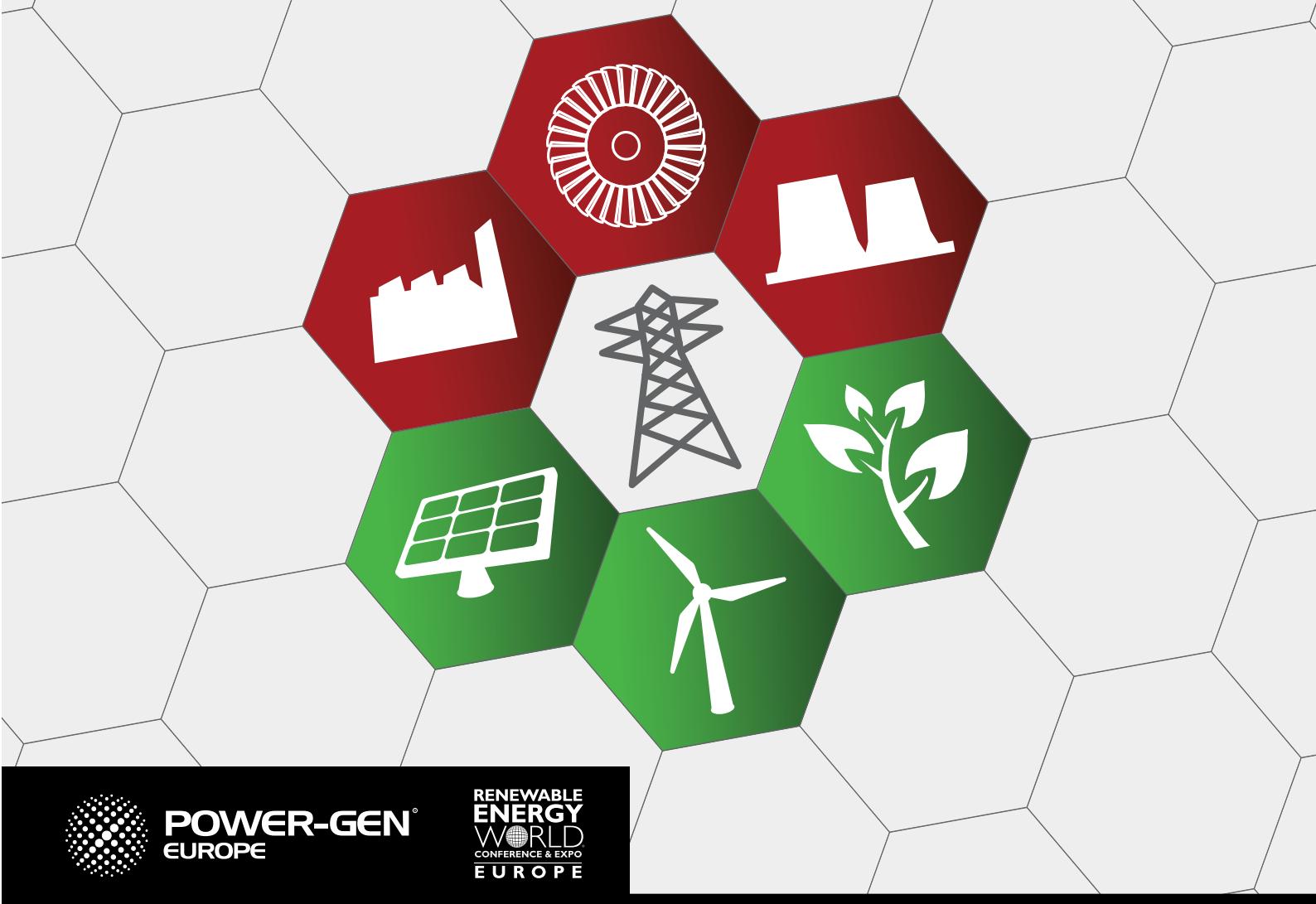
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BVAA More New Members!

BVAA membership continues to grow and grow. Our latest recruits include: -



Jon Slim of Versatile Controls Ltd



Martin Hunt of Hydra-Valve



Conrad Ritchie and Dave Anderson of Score Europe



Sean Hammond of Tungum

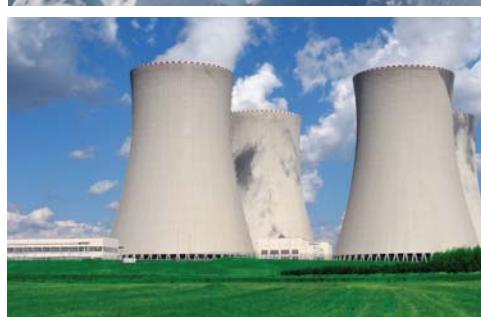


Tim Hazlehurst and Simon Dodd of Dynamic Ceramic

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Saint-Gobain PAM – New SBWWI Chairman

The Business Development Director of iron technology leader Saint-Gobain PAM UK, part of leading international materials company Saint-Gobain, has been elected as the new chairman of the Society of British Water and Wastewater Industries (SBWWI).

Saint-Gobain PAM UK's David Smoker takes over the chairmanship from Martyn Hopkinson of the UK Drainage Network. The position was made official at this year's annual general meeting of the SBWWI, a trade association which represents the interests of UK manufacturers, contractors, consultants, distributors and others supplying to the water and wastewater industries.

In his initial address as chairman, David Smoker commented: "*I am keen to increase the rate of take-up of supply chain innovation by water companies, particularly in the area of sustainability. To*

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Outgoing chairman Martyn Hopkinson, UK Drainage Network (left), with new chairman Dr David Smoker, Saint-Gobain PAM UK

achieve this, the SBWWI will continue to work with water companies, through both formal and informal meetings, to broaden co-operation on these issues. In addition, we will strengthen our existing links with organisations with overlapping interests to develop common positions on issues affecting the water and wastewater industry."

He added: "It is a great honour to be selected as chairman for the SBWWI, an association which represents more than 100 suppliers to the water and wastewater industries. I hope to continue my predecessor's good work while taking the association into a brand new chapter."



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United Utilities Keeps Exeeco in Charge



United Utilities, operator of one of the largest water and sewage treatment networks in the UK, has re-awarded the contract for the overhaul and maintenance of thousands of electrically operated valve actuators and associated equipment to Exeeco APS (Actuation, Projects and Services), a company in the Rotork flow control group.

Since the award of the original United Utilities maintenance framework contract in 2004, Exeeco APS has been responsible for the actuation service and repair activities in an area of northwest England stretching from Carlisle to Crewe and Morecambe to Macclesfield. Within these boundaries, United Utilities operates more than 700 water and sewage treatment plants and 170,000 kilometres of pipework and sewers, serving a population of seven million.

The new contract will continue to give United Utilities access to Exeeco's broad range of skills, built up over nearly forty years of experience as the UK's largest actuator service provider. Exeeco's responsibilities include the maintenance and repair of all actuator types, whether electric, hydraulic or pneumatic, on a 24 hour-a-day call out basis. Services are performed by a fully trained specialist actuator workforce and supported by large spares stockholdings, strategically held at Exeeco's head office and workshops in Leeds.

Exeeco will continue to assist with the management of obsolescence issues, upgrading existing actuators with Rotork equipment and providing retrofit services encompassing valves, penstocks, actuators and electrical services.

United Utilities Maintenance Support Engineer Darren Howarth says: "*Exeeco plays a major part in the maintenance and management of our actuation assets, helping us to deliver excellent service for all our customers.*"

Ian Elliott, Exeeco APS sales manager, observes: "*The award of this prestigious contract will enable United Utilities to draw on the full range of actuation services provided by Exeeco. We are looking forward to continuing to meet United Utilities' requirements on these important tasks.*"



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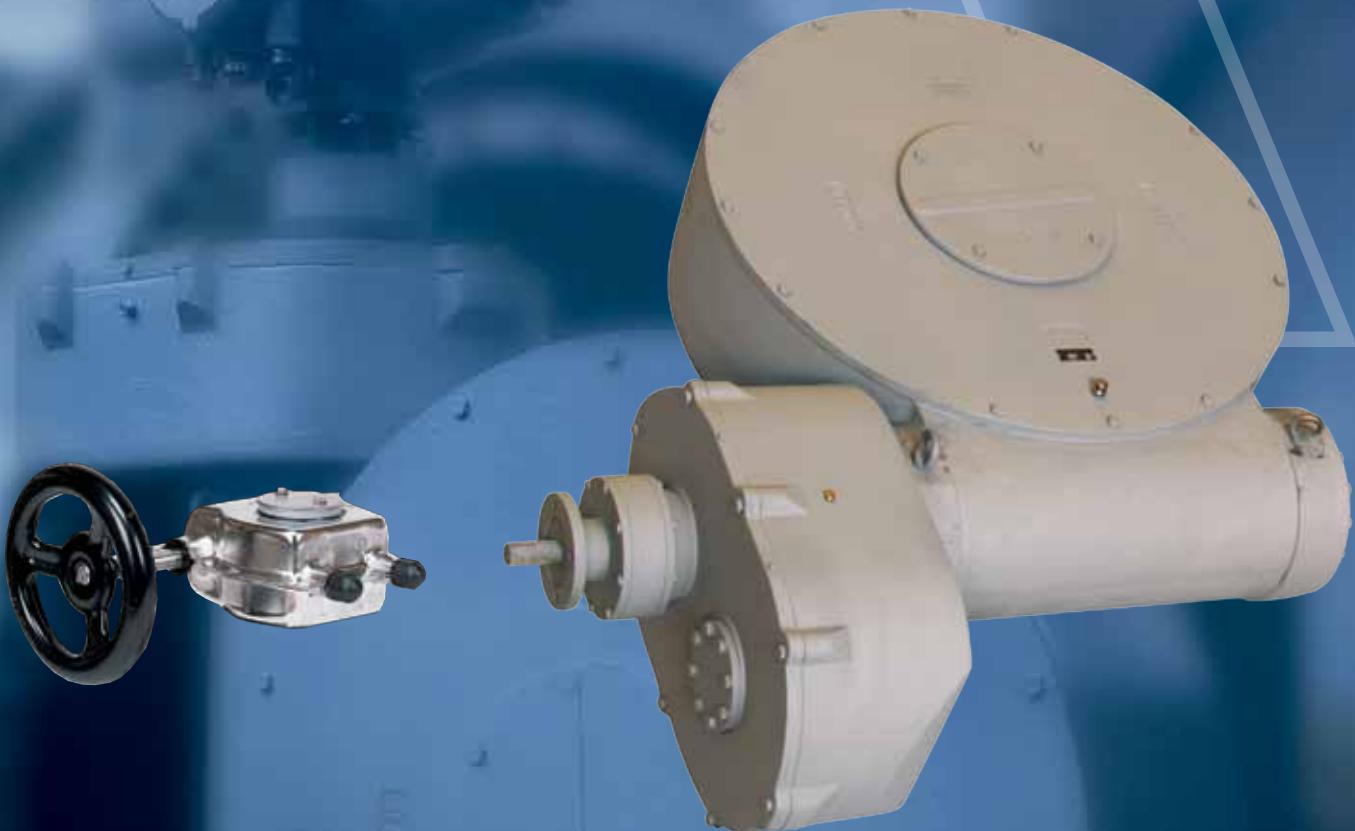
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Nil-Cor Composite Valves

CPI-supplied Nil-Cor composite valves cut costs in aqueous waste treatment system

A recently completed renovation and expansion of the aqueous waste treatment system at the SCA Chemical Services Facility in Model City, USA, permitted the closure of the receiving lagoons, by replacing them with closed tankage. The new system has virtually eliminated air emissions by venting the closed tanks to a fume scrubber.

The project included 16 closed tanks and other processing equipment, including an ammonia stripper, and mechanical filter presses.

With all the new tankage there came a need to regulate and control the distribution, flow, and processes necessary to treat the wastes. Prior to the project receiving the go ahead, plant personnel investigated and evaluated different kinds of valves, giving safety and environmental concerns top priority.

Since the plant operating personnel were familiar with the high costs and other pitfalls associated with using metal alloy and lined valves, it was decided to put composite valves to the test, prior to ordering. Accordingly, Nil-Cor 310 series composite ball valves, manufactured from fibreglass-reinforced vinyl ester resin, were rigorously tested to see if they would be suitable for the applications.

During the trial period the Nil-Cor valves proved to be inert to over 1,000 chemicals that were present in the processes at SCA. It was also found that the Nil-Cor valves were lighter in weight, lower in cost, and more



versatile than the conventional valves that they were using. In addition the Nil-Cor valves were lower in torque, and valves with a characterised ball for control applications involving chemical additives, were available.

Based on the successful outcome of the trials, Nil-Cor composite valves were selected for the £4 million project. Installation was easy; the valves being compatible with different lined and plastic pipe & fittings, and the light weight (about one third of the weight of metal valves) meant that fewer pipe supports were required.

The 258 Nil-Cor ball and butterfly valves, ranging in size from 25mm to 100mm nominal bore, that were installed on the project, continue to perform as reliably and efficiently as the preliminary testing had predicted they would.

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SIPOS Supports Colorado Pump Station



The North Water scheme that is supported by SIPOS Aktorik's actuation

Erie Non-Potable Water Pumping Station

The town of Erie, Colorado was in need of a new pump station to move treated water from its North Water Reclamation Facility storage reservoir to one of two locations. The required discharge process for the water was either via low-head pump to a high-head pump at Boulder Creek, or to the facility's irrigation distribution system.

Re-using water normally discharged from waste-water treatment plants is a growing trend as it makes good use of a valuable resource, especially in dry climates such as Colorado. The most common destinations are non-potable uses, such as irrigation as precious potable water is saved for household and other domestic uses.

Pipestone Equipment was selected to provide valves for the project, which was designed by Burns & McDonnell and constructed by Jennison Construction. Included in the scope of supply were the isolation valves and air valves that are typically required for such systems. Technically significant for the North Water scheme was the combination of engineered pump control valves and a surge anticipation valve, designed to work together to minimise hydraulic transients and provide a long system life.



Dave Buchwald from Pipestone Equipment with SIPOS' actuation technology

An optimised solution

Minimising hydraulic transients during both normal and emergency operating conditions will improve system longevity and reliability. To achieve this at the North Water facility, an optimised solution for pump control developed by Pipestone Equipment incorporates low headloss ValMatic ball valves controlled by electric actuators manufactured by SIPOS Aktorik. The SIPOS actuators for Erie were programmed to create a linear acceleration and deceleration of water during normal



A close up of a SIPOS actuator programmed to create linear acceleration and deceleration of water

pump operation. Additionally, rapid closure during a loss of electrical power event via backup from an uninterrupted power supply is facilitated by the actuation technology.

The ability to programme SIPOS' actuators to change speeds at any time during the valve stroke means that linear flow rate change can be obtained and, when implemented effectively to produce linear flow

change, the SIPOS actuated ball valve will provide the minimum system transients possible for a pump control valve. Additionally, the actuator speed-time curve can be easily calibrated and adjusted in the field, as required, for fine tuning.

The emergency operating condition created by a loss of electrical power while operating the pump station at full flow rate requires additional analysis including creation of a hydraulic system model. Each system has unique characteristics which determine the magnitude of water hammer transients. Fine tuning of the operating time can be achieved via hydraulic model or field trials.

In summary, a combination of state-of-the-art-valves and programmable valve controls with accurate engineering calculations and modeling provide an optimised pump station design that promotes a long and trouble free system life. And, by minimising both normal and emergency transient magnitudes, piping system stresses are kept as low as reasonably possible.

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Tungum – A Company Profile

Tungum Tubing & Tube Products

Tungum Ltd has over 75 years' experience in the supply of hydraulic and pneumatic equipment. In addition to our unique Tungum Alloy Tubing we source and supply a comprehensive range of Tube Products.

There are two main areas to the Tungum Ltd business: our unique Tungum Tubing sold extensively into worldwide markets for Oil & Gas, Defence, Transportation and Medical; and Tube Products where we source a wide range of support products for both hydraulic and pneumatic applications.

Tube Products

Sometimes we are asked to provide a complete installation package with our client's pipework systems. Other times, we are simply asked to source equipment to complement an existing installation. Whatever your sourcing need we are here to help.

Valves

A key part of our Tube Products offer is distributing the CPV Valves range. They are high pressure valves and fittings that meet the highest industry standards. Their products are used worldwide in Oil & Gas, Marine, Chemical, Pulp & Paper, Food & Pharmaceuticals and



Tungum CPV Valve

Manufacturing Plants. Today CPV is known around the world for the O-SEAL System of high-pressure valves and fittings, the Mark VIII system of tube size valves and fittings and FloMaster™ air operated shutoff valves. The new G-Series of stainless steel shutoff, needle & check valves will join that list as they feature

the same ease of fitting, quality control and trouble free service. As CPV's agent for the UK, France, Belgium, Netherlands and Luxembourg we are able to offer their complete range of valves and fittings as well as shipping them Worldwide.

Tungum Tubing

Tungum has an excellent strength to weight ratio, good fatigue properties and exceptional corrosion resistance. Tungum is made to last a lifetime, giving many add-on benefits, such as removing a number of costly refits and material disposal.



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Modular Actuation Aids Water Industry

In this report for Valve User, AUMA Actuators Ltd, an established member of the BVAA and a leading force in valve control, provides a definition of actuators and their role in water industry applications.

As part of the global AUMA organisation, the company has a 48 year track record providing electric actuation solutions for a range of industrial applications – a strong legacy supporting the water industry is offered. The increased adoption of bus technology is highlighted and a view presented that the good supplier considers the bigger management picture.

For over a century, actuation has played an essential role across water treatment plants, pumping stations, water pipelines, dams, sluice gates and sewage works. As members of the BVAA will be aware, actuators consist of a motor driving onto a worm gearbox which provides the output torque to move a valve. The electronically powered devices convert a control signal into a rotary or linear movement which, via a valve, changes the flow of a fluid.



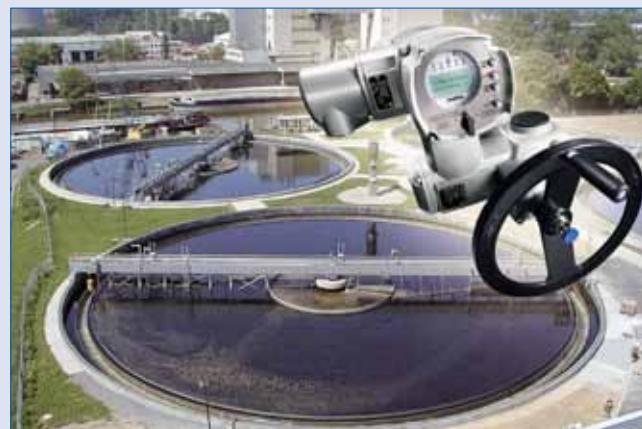
AUMA UK's prestigious headquarters facility

Integrated into control systems and converting signals into mechanical motion, actuators are linked to control centres or monitoring consoles. Alternatively, electric actuators rely on their own intelligent electronics to perform their primary function of controlling valves: in water sector applications, these valves link to treatment plants or filtering systems.

Increasing adoption of fieldbus technology in water sector applications has substantially increased the amount of process information. Providing almost unlimited data feedback, precise information can be provided regarding processes. Fieldbus has been embraced by water utilities on an international scale and the technology is widely adopted for potable treatment, filtration and wastewater treatment plants.

Modular design makes its mark

Heavy investment is made into R&D by AUMA, particularly at the company's German manufacturing facilities – this commitment to advancing electric actuation resulted in taking a pioneering modular approach to valve control. AUMA advises that a key benefit of modular actuation technology is the ability to customise the product to meet exact specifications in a mass production environment. Maintenance and upgrades are therefore possible without having to remove the actuator from site. Generation .2 AUMA actuators introduced in 2010 retain the modular design concept and, as a result, are fully compatible with previous products.



A new Generation .2 AUMA actuator and wastewater scheme

Demand for modular actuation is confirmed via UK utility installations and orders for AUMA actuators around the world, including an application for a water conveyance system in Jordan. The scheme, which runs from Mudawarra to Amman, will be supported by 400 of AUMA's new Generation .2 range modular actuators.

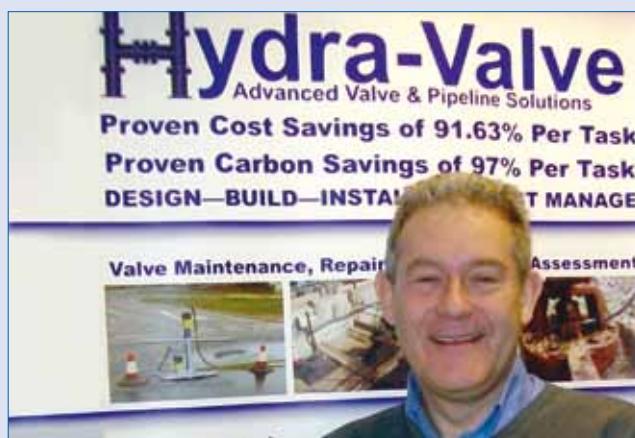
In conclusion, AUMA reports that recognising the challenges of managing automation is central to the actuator supplier / customer relationship - and this is true whether the application is water, power or oil & gas. The forward looking actuator organisation works in partnership with its customers responding to wider business issues. For example, at AUMA every component and completed actuator commissioning number is unique: this helps significantly with asset management and tracking.

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Martin Hunt Appointed for Hydra-Valve

Top actuation expert relishes the challenge of his new role



Martin Hunt, Hydra-Valve's new Group General Manager

Martin Hunt, a specialist in actuation valve control systems, has recently been appointed as the new Group General Manager for Hydra-Valve Ltd (HVL), a rapidly expanding valve and pipeline solutions company, based in Derby.

With 25 years' experience in the water, hydrocarbon and energy industries, he brings a wide experience spanning strategic growth, project sales, engineering, and lean operations, as well as managing bottom line profitability. Martin Hunt is looking forward to the challenges involved in helping to run this innovative company.

Martin commented "OFWAT have laid a challenge to the utilities that mean they have to react by seeking a step change in their approach to asset performance, operating costs and protection of the environment. HVL has a proven track record with continuous development of innovative techniques to meet these requirements, and timely solution delivery to the utilities so they are 'Always On'. The exciting challenge for me is guiding the development and growth of our team of highly motivated and experienced engineers to enhance our offer to the market, and to drive through some real benefits to our customer base."

Steve Foster, Managing Director of Hydra-Valve said, "We are very pleased to be able to welcome Martin to this new role. His experience and expertise in the water industry, combined with extensive business management experience, will be an asset to the company. We are looking forward to working with Martin to drive this growing company forward."

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Tyco Valves & Controls

Launch New Check Valve

Protect Key Components and Increase Efficiency with High-dynamic Check Valve

Tyco Valves & Controls Launches new check valve with improved operational capability, extended lifecycle and reduced cost for end users. Using innovative design and engineering with excellent dynamic characteristics, the valve provides increased efficiency by minimising the returned velocity and as such eliminating possible damage caused by pressure surges.

A check valve is considered one of the most critical components for the protection of mechanical equipment and in many systems is often used to avoid returned flow. Damage to pipeline systems can be traced to errors in check valve specification. Incorrect check valve selection can cause serious damage due to pressure surges on pumps, pipes, foundations and other equipment which might be exposed to such pressure fluctuations. The Clasar check valve from Tyco Valves & Controls, launched through its SAPAG brand, has been engineered to reduce the risk of damage to such components.

Through a dynamic, non-slam valve operation, Clasar check valves offer short closing times using a low mass, spring controlled polyurethane axial disc with a short closing stroke. Due to this quick closing action, the valve closes at approximately the same deceleration as the returned velocity.

Due to its high dynamic valve characteristic, the Clasar check valve is perfectly suited for high risk deceleration systems, such as high static head applications or even high-head multi pump units.

Manufactured and engineered for reliability and an extended lifecycle, Clasar check valves ultimately lower the cost of ownership for plant operators through reduced installation and maintenance costs. The Clasar check valve is based on an axial non rubbing disc closing, minimising the maintenance costs and increasing its reliability.

The spring loaded design in particular enables the valve to operate in horizontal, vertical-upstream or diagonal installations. Improved reliability and reduced energy costs of the new Clasar check valves are as a result of large flow capacity and heavy duty design, suitable up to 50 bar, and offer customers enhanced benefits over existing check valve products.

Combined with good corrosion resistance Clasar check valves are suitable for use in a wide range of water applications, including seawater and industrial water processes. The valves are also approved for potable



Tyco's Clasar check valve

drinking applications to both WRAS and ACS standard and are offered in a wide range of sizes up to DN 1800.

Typically installed downstream of a pump to prevent reverse flow and protect vital pump equipment, Clasar valves can be used in both low and high risk, multiple pumping line applications. René van der Gaag, product manager for special service valves, Tyco Flow Control comments: *"Using clever design and technology, the launch of Clasar represents our latest innovation in check valves and offers a range of clear advantages and benefits to the utilities and process industries. Many of the issues which can affect check valves generally have been designed and engineered out of our Clasar product with the aim of delivering improved operational capability, extended lifecycle and reduced costs for our customers."*

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Saint-Gobain PAM supplies South West Water

Saint-Gobain PAM UK supplies South West Water with ductile pipes and fittings for new £2m pipeline serving Cranbrook New Town

Iron technology leader
Saint-Gobain PAM UK, part of leading international materials company, Saint-Gobain, is supplying South West Water with pipes and fittings for a new pipeline to deliver water from Beacon Hill service reservoir in Pinhoe to Cranbrook New Town in East Devon.

In the project, costing more than £2 million, the 6.35km DN500 pipeline will serve mains water to 800 new properties in the Pinhoe area, 2,200 north of Black Horse and a further 6,500 properties at Cranbrook.



Situated in the east of Exeter growth area, Cranbrook embodies a unique concept of a brand new low carbon community and will become one of the country's leading sustainable developments.

According to Phil Green, Head of Technical Sales of Saint-Gobain PAM UK, among the key benefits influencing the water company's decision to opt for the Saint-Gobain PAM UK solution was the protection provided by the company's standard Natural pipes. This offered the ideal solution for corrosion protection across a variety of ground conditions. Also, the use of Saint-Gobain PAM UK

anchor gaskets eliminated the need to use concrete thrust blocks in remote and waterlogged access points.

He said: "Additional value-added services which had a significant effect on Saint-Gobain PAM UK securing the work included our high level of design assistance and value engineering, both of which helped contractor Balfour Beatty Utility Services (BBUSL) submit a competitive cost solution to South West Water. We worked closely with BBUSL at all times, attending design reviews and offering options in respect of supplier choice."



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One of the actuators supplied by AUMA to the Dubai Electricity and Water Authority

Working in partnership with customers across the water, power and oil/gas industries, AUMA takes pride in the capabilities of its actuation solutions and the strength of support provided. The company, which is established as a driving force for valve control, has an extensive portfolio of water utility contracts both in the UK, and internationally.

The Dubai Electricity and Water Authority (DEWA) has been supplied with AUMA actuation technology for over ten years. The latest installations for the company's modular electric actuators are for two water supply pipelines – CW205, which covers 30km, and CW308. AUMA has played a key role supporting the innovative authority with provision of Modbus redundant actuators.

Designed to high quality specification, AUMA actuators meet the exacting requirements of DEWA's pipeline automation processes.

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Composite materials in industrial valve applications

Rene van der Gaag, Product Manager for special service valves, Tyco Flow Control

Advances in technology have driven significant change in the pumps and valves industry. Composite materials now represent a major opportunity for the industrial market based on success seen in the automotive and aerospace sectors, marking a development that can provide enhanced benefits.

Traditional valve construction materials – iron, stainless steels and metal alloys - whilst still providing a robust choice for the end user, no longer represent the preferred choice for the water industry. Advances in polymer technology have produced a range of thermosetting polymers and thermoplastics with robust mechanical properties, allowing them to be engineered as alternative components. Using composite materials for components impacts on design, performance, cost and sustainability characteristics - all issues influencing the specification of flow control valves.

In recent years, rising raw material costs for traditional valve materials have led to a gradual relocation of non-critical manufacturing processes. A combination of experimentation with cutting-edge technologies and a greater understanding of their chemical and physical properties has seen composite material technology specified and installed by both engineering consultants and contractors with far greater confidence.

Composite materials have made huge progress in recent years. Their improved mechanical properties, as well as their chemical and physical behaviour, now deliver comparable performance to traditional metal resilient seated butterfly valves, demonstrating significant benefits for the industry.

The major benefits

New materials call for new ideas. The adaptability of composite materials shape every element of design and it is now possible to eliminate material where it is not needed to create hollow sections within the valve body. Whilst some plastic valve designs already employ



Tyco's Keystone CompoSeal® butterfly valve

hollow sections, these are on the exterior of the valve body which can allow dirt and dust to collect.

Composite materials provide a good fit in meeting the industry's sustainability requirements, both through a reduction in metal raw materials, and low mass and low thermal conductivity of the material which offers considerable savings in energy, manufacture, transport and application.

To take a specific example (that of quarter-turn industrial butterfly valves) the improved mechanical properties of composites and their chemical and physical properties ensure that they can deliver

performance that is comparable to - or better than - a metal resilient seated valve and additionally offer reduced weight and better corrosion resistance.

In fact, the examination of important characteristics such as tensile strength, elongation and modulus permits composite valve construction that performs more like traditional valve materials than the conventional plastics to which composites are sometimes mistakenly compared.

The choice of low mass materials such as composites offers a number of significant benefits in terms of finished products. In valve applications there is the possibility to reduce the number of structural pipe supports in a typical process installation, especially when connected to plastic tanks or pipes, and also makes the valves suitable for plastic pipe lines. Further benefits are obtained in lower fuel consumption costs during transport from the production plant to the site and lower installation costs.

With regards to chemical resistance, this can be measured in comparison to stainless steel, with the best-performing solution ultimately dependent on the application in question. For example, high and mid-range composites demonstrate outstanding performance in harsh or aggressive environments. Furthermore since corrosion resistance does not require additional protective layers or paint which could be damaged by impact, the maintenance requirements of units over their lifetime are reduced.

Additional benefits also includes low thermal conductivity and the presence of internally reinforced, hollow-body sections which enable a reduction of process heat loss and eliminates the need for lagging, heat tracing or valve jackets. In addition the low thermal conductivity also reduces the risk of process freezing or flow problems that arise from heat loss.

Innovation from the industry leaders

Research by Tyco Flow Control and its partners led to a blend of two thermoplastics which offered exceptional design flexibility and an opportunity to improve both shaft and disc design. This development resulted in Tyco's Keystone CompoSeal® range of butterfly valves featuring a composite body and disc-shaft assembly. An immediate benefit of this innovation now enables composite valves to be designed with a one-piece disc-stem, minimising hysteresis problems between the shaft and disc. This makes a valve suitable for regulating as well as on/off duty, and ensures the shaft remains dry to eliminate crevice corrosion between the shaft and disc.



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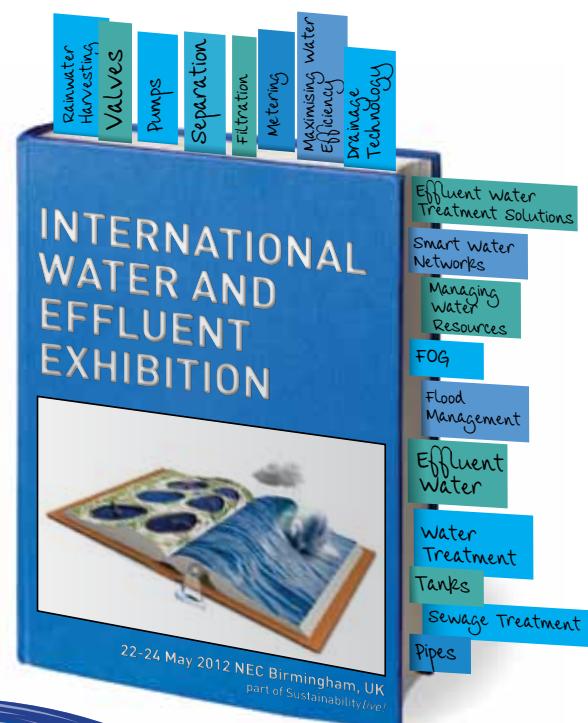
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Crane Viking Johnson Flow Control Solutions

Keeping Anglian water customers connected



Viking Johnson Through Bore Hydrant and Hydrant Wizard in action

Anglian Water has undergone a successful 6 month trial, using the Viking Johnson *Through-Bore Hydrant* and *WASK Hydrant Wizard*, with the aim of reducing the number of customers affected by burst water mains.

The *Hydrant Wizard* isolates fire hydrants by inserting a small, balloon-like stopping bag into the 'leg' between the hydrant and the main which allows maintenance or replacement activities on the hydrant to take place without isolating supplies to customers, whilst the *Through-Bore Hydrant* provides unobstructed access to the network during normal use, enabling a range of further cost saving initiatives. These activities include isolating a section of water main in order to undertake maintenance, live monitoring of water flow, pressure and water quality, internal inspection using a camera, hydrophone or acoustic imaging to check whether the pipe is structurally sound and in good condition, maintenance including flushing and cleaning, and pinpointing the exact location of a leak while the main is still at full pressure.

The 6 month trial in Lincolnshire was undertaken with the aim of minimising the amount of customers who experienced water supply disruption and quality issues during mains bursts. The equipment achieved its aim and more; Anglian Water has reduced the number of unwanted calls they receive and increased customer satisfaction, but also benefitted from savings in excavation and re-instatement costs as well as minimised disruption to roads and pathways.

Both the *Through-Bore Hydrant* and *Hydrant Wizard* have been welcomed by the water industry, which are

tasked with preserving water and enhancing services to customers. The *Through-Bore Hydrant* has even won the coveted SBWWI Water Dragons Award for Best Product Innovation in 2009.

Malcolm Holmes, Network Manager at Anglian Water said "*The benefit of using this type of equipment is that fewer customers go without water when mains burst or we are doing planned maintenance. Our aim is to deliver a continuous supply of water, and finding alternative ways to manage this will help us to improve customer satisfaction.*"

Anglian Water supplies water and wastewater services to more than 6 million domestic and business customers, through 80,000km of pipeline and 1248 water treatment plants. Almost 1.1 billion litres of water is supplied to the East of England every day and, as the driest region in the UK, the preservation of water is of paramount importance.

Both Viking Johnson and WASK are leading utilities brands of Crane Building Services & Utilities (www.cranebsu.com).



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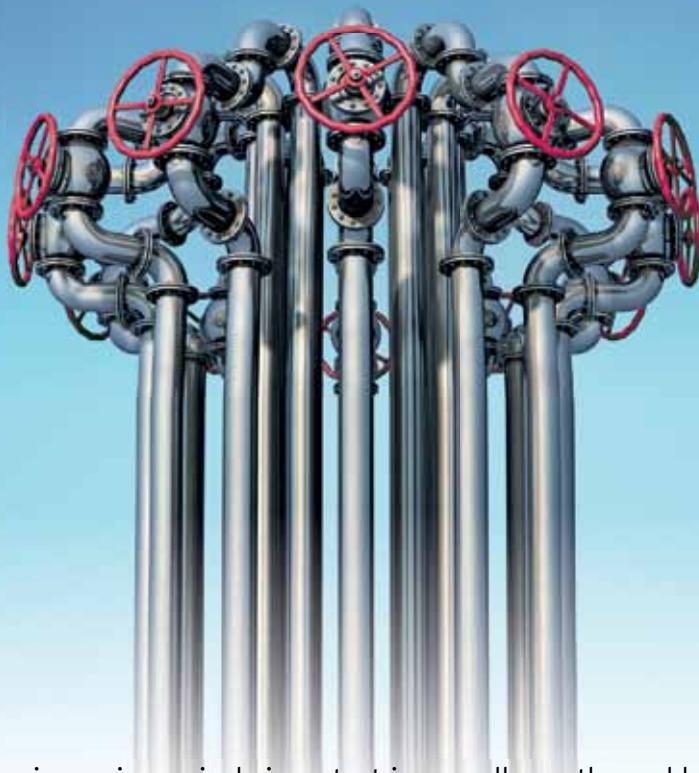
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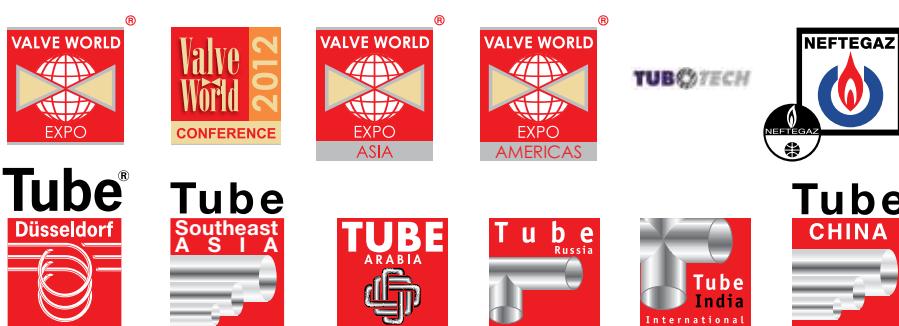
Flow technology is becoming an increasingly important issue – all over the world. Technological innovations have reached high standards and are beginning to open up new horizons. These innovations will be on display in Düsseldorf, Germany, and at the international events organised by **Messe Düsseldorf** and its partners.

The undisputed No. 1 trade fair for the tube industry is Tube in Düsseldorf, Germany. Every two years it presents forward-looking solutions, which the top decision-makers expect.

But, even in the interim period, **Messe Düsseldorf** offers opportunities to keep in touch with the market. Whether autonomously or in cooperation with various organisations, **Messe Düsseldorf** promotes professional events within strategically important growth markets.

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Saint-Gobain PAM UK to Offer-One Stop Shop

New joint sets allow Saint-Gobain PAM UK to offer-one stop shop for CESWI-compliant pipe solutions

Iron technology leader Saint-Gobain PAM UK, part of leading international materials company Saint Gobain, has launched an enhanced range of fixed flange joint sets which are compliant with all the requirements of the 7th edition of Civil Engineering Specification for the Water Industry (CESWI).

The new PN16 joint sets, available for pipes between DN80 and DN1200 in size, each contain a full face (EPDM or nitrile) gasket and mild steel Rilsan coated bolts, with a nut and two washers per bolt.

The sets have been specifically designed and engineered to meet CESWI stipulations that bolts should have two threads showing when tightened in their final position and that washers should be provided under both the head of the bolt and under the nut.

The addition of the new flange joint sets to its range means Saint-Gobain PAM UK can offer a complete CESWI-compliant solution encompassing flanged pipes, fittings, valves, couplings, adaptors, and fixed flange joint sets.

Olga Luengo Gonzalez, Product Manager - Water & Sewer, Saint-Gobain PAM UK, explained: "Correct jointing is key to ensuring that pipe systems perform correctly and the CESWI 7th edition regulations are very clear on the requirements on jointing products to achieve this. Our new fixed flange joint sets mean that customers can choose from a range of high-specification products guaranteed to meet the most stringent industry requirements."



A DN100 diameter PN16 fixed flange joint set from Saint-Gobain PAM UK showing gasket, Rilsan coated bolts, nuts and washers

For further information about Saint-Gobain PAM UK's water and sewer range, visit www.saint-gobain-pam.co.uk/water-press.



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Engineered Valve Solution from Aquaflow



A framework contractor working on behalf of United Utilities contacted T-T's division Aquaflow to help them solve a problem of four persistently problematic valves, which had become costly to maintain. The four DN800 tilting disc check valves, manufactured by a nominated framework valve holder, had been installed within a critical pump house which serves the regions water supply. Aquaflow worked closely with the site representatives and a number of serious installation issues were identified including incorrect valve sizing and poor valve design, which had lead to increased wear and a reduced lifespan.

Following a consultation and reappraisal of the hydraulic parameters Aquaflow supplied four engineered replacement DN600 slanted seat check valves. The chosen valves had slanted seats for improved performance characteristics. To reduce the negative effects associated with slamming, each valve is fitted with a fully maintainable stainless steel integral damper mechanism. The design of such allowed for the disassembly of the damper mechanism without the costly removal of the valve from the line.

Aquaflow had full control over the design, therefore was able ensure that all materials were carefully selected and suitable for the application and a trouble-free operation, with a long efficient lifespan. The work ran very smoothly and to schedule and, the water company were left extremely satisfied.

Aquaflow supply a wide range of waterworks valves with many ranges having third-party WRAS approval for potable water networks. As part of T-T, Aquaflow are also able to offer complete actuated valve packages including bespoke electric control panels and monitoring systems.

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eTec's Water Supply Butterfly Guard Valves



eTec were approached to assist with valve refurbishment work required on an overseas project. Prior to award of contract, eTec visited the site to discuss requirements with the station engineers and check installation interfaces. Three locations along the supply scheme were visited to review the maintenance requirements.

The resulting order was for the supply of new valves and spare parts to all three locations and UK based product training for

twenty engineers to undertake installation and refurbishment at the three sites identified.

The valves had to meet AWWA specifications for material, allowable stresses and testing along with project corrosion and cathodic protection stipulations. The requirement was for 1300mm diameter Butterfly Valves acting as Guard Valves isolating supply line pumps working at 24 Bar plus a possible 4 Bar surge.

To meet pressure test specifications the Body was subject to a 56 Bar hydrostatic test with a 42 Bar strength test applied to the Disc and a 28 Bar zero leakage seal test was also performed. Open and Closed locking provision and 4:1 Open / Close time variation was provided.

Drop tight sealing was achieved at the 28 Bar working pressure. Whilst the ductile iron castings could be engineered to meet this requirement engineering for the valves Disc and Gland sealing arrangements needed to be considered to achieve the test pressures and contract requirements.

To meet the corrosion specifications the valve was designed with the wetted surfaces of the Body and Disc ebonite coated and used Duplex stainless steel shafts. The ebonite correctly bonded to the Body bore provides a seat profile that can then be accurately machined to match the Disc swing. This eliminates the casting from contact with the corrosive water.

Cathodic protection design included non metallic parts replacing traditional stainless and sacrificial anodes. The valves were designed, cast and manufactured in the UK, with actuation of the valve courtesy of fellow BVAA members Opberman Mastergear and Rotork.

On completion eTec welcomed the customer to witness the valves pressure and performance testing. Following delivery eTec provided specific training for the engineers and managers who were to undertake the site work.

For bespoke valve requirements please see our website at www.etec.uk.com.

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Tyco Valves & Controls Pushes the Boundaries

Tyco Valves & Controls is pushing the boundaries in control valve design and engineering with its Sapag Monovar pressure control valve

With excellent cavitation characteristics which make it suitable for high pressure drop applications, the valve is able to control a high pressure differential in relation to its inlet pressure. Very accurate flow and pressure regulation capabilities ensure the valve is well suited to industrial water applications in water distribution, hydro-power stations and process industries.

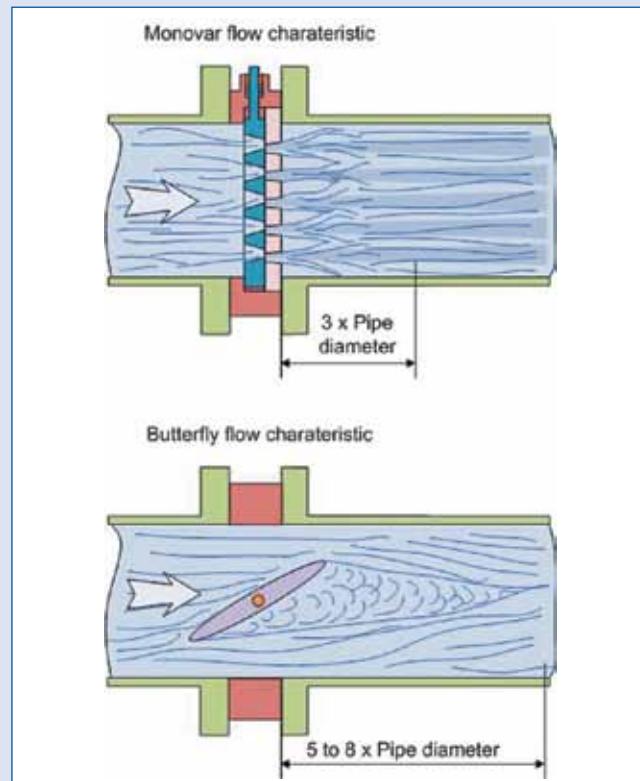
Monovar uses an innovative sliding plate design which incorporates one moving plate upstream, one fixed plated downstream and approximately 56 tapered control ports. Significantly reducing water turbulence, it settles any disturbed water within two lengths of the valve diameter as opposed to the five lengths required for traditional butterfly valves, providing quick flow recovery. This design feature, including the short face to face dimension in comparison to traditional control valves such as gauge valves or globe valves, allows for compact installation. It ensures pipeline system designers have more flexibility in designs and layout, allowing for a smaller footprint upon installation which reduces construction costs and plant size.

When fully closed the valve has a leak rate comparable to AMSE B16.104 Class III and can be operated both manually or by using pneumatic, hydraulic or electric modulating actuators. In addition it can be used at a differential pressure which is 80% of the inlet value, with a pressure range of 50 bar and a temperature range from 60°F to 390°F. Sapag, located in France, also extended its size range recently up to DN 2100 (84").

Tyco Valves & Controls has engineered the valve for improved reliability and endurance, ensuring customers can take advantage of predictable performance. The multi-jet design also reduces the destructive effects of cavitation and extends the lifecycle of the product.

Julien Massemin, product manager for the Monovar valve at Tyco Flow Control comments:

"We have designed and engineered our product with optimum flow characteristics to address the industry's requirements for improved performance, extended lifecycles and reduced operation costs. Excellent anti-cavitation properties eliminate the risk of potential damage to the valve or the downstream pipe line,



ensuring a cost reduction in comparison to conventional solutions."

In total 17 DN 2100 valves have recently been specified for a new ultraviolet disinfection facility in the US and are currently undergoing installation. As part of a \$10 million contract, the products are a key component for accurate flow and pressure control within a new facility on the East Coast. Upon completion, the new plant will supply water to a major city, with Monovar valves controlling approximately nine billion litres/2.4 billion gallons of water.

"We are truly proud to be involved in this project," adds Julien. "Close coordination of our global teams enabled us to not only meet our customer's objectives, but also exceed their expectations by delivering our products ahead of schedule at the beginning of the programme."

tyco *Flow Control*

Tyco Flow Control

Tel: + 33 (0)442 103600

Website: www.tycovalves.com

Rotork Improves Efficiency at Water Treatment Plant

Rotork intelligent electric valve actuators have been installed to replace unreliable actuators in an efficiency upgrade project at a large water treatment works in The Netherlands. The modern and highly automated plant has a daily water treatment capacity of 180,000 cubic metres, with a treatment regime comprising pre-screening, carbon filtration, ozone injection and sand filtration.

Reliability problems had arisen with the electric actuators on the carbon filtration plant, which were failing to cope with the modulating valve duties required for efficient filtering and backwashing operations. Rotork's solution has been to remove the old actuators, install IQTMPro quarter-turn modulating actuators directly onto the affected butterfly valves and connect to the existing power and control cabling. This work has been performed by Rotork Site Services, Rotork's specialist division for retrofitting, site maintenance and repair activities.

The site wiring interface with the old actuators was by means of plug-and-socket connections. In order to retain these, Rotork



A Rotork engineer uses the wireless hand-held setting tool to download data logger files from one of the Rotork IQTM actuators at the water treatment plant for storage in the asset management programme

engineered a separate plug-and-socket housing, locally sited by each new actuator and connected to the actuator terminal compartment. This has speeded up installation and enabled the new actuators to be retrofitted with minimal modification to site wiring.

On completion of the project, a total of 120 Rotork IQTM1000 actuators have been installed on DN350 and DN400 butterfly valves. Rotork has also been awarded a ten-year maintenance contract for the actuators, involving tri-annual inspections and functional testing. All Rotork IQ actuators incorporate standard features designed for increased functionality, optimum plant utilisation and improved long term asset management. For example, an integral data logger stores historical operating data, including the sequence of valve torque profiles. This information can be downloaded and analysed with Rotork's PC-based IQ-Insight software to establish predictive maintenance schedules or identify potential problems.

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Flowserve Announces Unified Operational Structure

Flowserve Announces Unified Operational Structure; Promotes Thomas L. Pajonas to Chief Operating Officer



Tom Pajonas, chief operating officer for the Flow Control Division and the Flow Solutions Group

Flowserve Corporation recently announced a new operational leadership structure, resulting in senior leadership changes, and certain 2011 financial data. Highlights include:

- Forms unified operational leadership structure under newly created chief operating officer position
- Thomas L. Pajonas promoted to chief operating officer
- Thomas E. Ferguson to retire from company at end of 2012

- Reaffirms 2011 full year EPS target range of \$7.45 to \$7.85
- Full year 2011 bookings of \$4.65 billion, up 10.0% compared to 2010
- Fourth quarter 2011 bookings of \$1.13 billion, up 9.2% compared to fourth quarter 2010
- 2011 year-end cash balance of approximately \$325 million

"After seeing the significant benefits of consolidating our pump and mechanical seal businesses two years ago, unifying all of our flow control businesses under the leadership of a newly created chief operating officer position was the logical next step towards achieving our strategic goals," said Mark Blinn, Flowserve president and chief executive officer. *"We believe this new leadership structure positions the company to better leverage operational excellence, cost reduction initiatives and internal synergies across our entire operating platform to drive further growth and increased shareholder value."*

Pajonas, formerly senior vice president and president of the Flow Control Division, assumes the role of chief operating officer and is responsible for both the Flow Control Division and the Flow Solutions Group (including the Engineered Product Division and the Industrial Product Division), which comprise all company operations. He retains the title of senior vice president and continues to report to Mark Blinn.

"Since joining the company in 2004, Tom Pajonas' proven track record in producing operational process improvements to drive earnings growth makes him an ideal choice to become chief operating officer," Blinn said. *"In this new position, Tom will play a pivotal role in leading our focus on margin improvement and on-time customer deliveries."*



Ferguson, formerly senior vice president and president of the Flow Solutions Group, will remain with the company until his retirement at the end of the year in a special advisory role to Mark Blinn to assist with the transition and certain strategic initiatives.

"Under Tom Ferguson's dedicated leadership, the company's pump and seal operations have grown significantly and are positioned to deliver improved financial performance and returns to shareholders as the company moves forward," Blinn added. "We thank him for his 25 years of outstanding service to the company."

The company ended 2011 with a cash balance of approximately \$325 million. This ending balance included the effects of approximately \$109 million in share repurchases during the fourth quarter, reflecting the company's recently announced policy of annually returning to shareholders 40% to 50% of its running two year average net earnings in the form of quarterly dividends or stock repurchases. The ending balance also reflected approximately \$89 million spent for the acquisition of Lawrence Pumps Inc. in the fourth quarter.

Commenting on the reaffirmed 2011 EPS target range and the announced financial results, Blinn said, *"I am proud of the outstanding efforts of our dedicated*

employees across the globe, and I thank them for their tireless work in taking care of our customers as we closed out the year. Our strong bookings performance for the fourth quarter builds on our positive momentum from the third quarter, positioning us well for 2012 and underscoring our confidence in our ability to capitalize on the opportunities presented by our markets. Our global sales force did another excellent job in 2011, and they remain a driving force behind our optimistic view of our 2012 growth prospects."

The company plans to announce its fourth quarter and full year 2011 financial results and file its 2011 Annual Report on Wednesday, February 22, 2012.



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A new highly distinctive design concept now allows Bifold's Solenoid Valve Housing to Freely Rotate 360°, enabling easy cable layout and ease of connection wiring. The solenoid internals rotate with the housing to prevent cables being pulled out of the terminal block. This new valve technology can be mounted in any orientation to simplify and ease installation along with a spacious enclosure for ease of wiring, which in turn saves space and installation time.



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Hydra-Valve – A Company Profile

The Hydra-Valve Advanced Valve and Pipeline Solutions Group [Hydra-Valve] may be a familiar name in the Utility world, but few people realise the extent of the group's services.



Hydra-Valve team at the Spondon HQ

The Groups services and solutions can be applied with the pipe line live in most cases keeping the supply 'Always On', for Water, Oil, Energy and Gas:

- Emergency response/ repair to pipe bursts and valve repair
- Line Stopping, bypassing, hot tapping, tank tapping and pipe encapsulation
- Sophisticated leak detection and asset mapping
- Network optimisation, improved flow dynamics
- Chamber sealing and live under pressure valve insertion
- Actuation with emergency slam shut function to asset maintenance
- Hydraulic systems including actuation and valves
- Industrial fasteners and IT and telemetry systems
- In-house bespoke design capability using Solidworks and Cad
- Full manufacturing capability with more than 100,000 sq. ft. of production space



Power Valve 18-48" - Under pressure valve insertion

This is a strong portfolio of solutions, available as a single source supply, and currently includes the following group companies, all with established track records in their sector:

- Hydra-Valve Advanced Valve and Pipeline Solutions Ltd
- Power Technology Services
- Richards Valves Europe
- Merlin Precision Engineering
- HV – Industrial Fasteners
- Business Essentials UK Ltd.

Cost Saving

At Hydra-Valve we pride ourselves on our quality of service and ability to meet the needs of our customers. As the requirements of regulators and financial constraints become more stringent the continuous development of innovative techniques to meet these requirements is brought further into the forefront. Hydra-Valve continues to develop such techniques which bring with them huge benefits.

Current regulation is driving Utilities to seek lower carbon emissions, risk reduction often without the ability to invest in new plant, improving customer satisfaction levels by maintaining supplies, all within the challenging financial constraints set by OFWAT and the wider economy.

An example of how you can do more with less is the innovative Power Valve – a fully functional valve that can be inserted into a pipe line of up to 48", without interruption to the Water supply, to provide isolation or control point.

Traditional methods for completing a similar 'isolation' demands at least 5 major excavations, with associated plant, equipment, labour, permits and permissions, access approval, not forgetting the major disruptions to the environment and traffic, over at least 4-8 week period, costs reaching £50,000 per excavation.

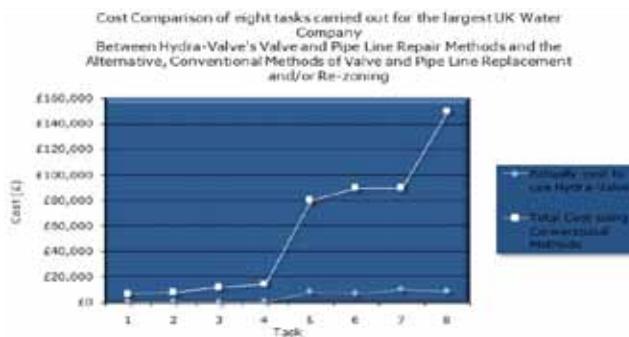
The success of the Power Valve is that it needs only one excavation, and can be inserted within a week, with the Water 'Always On', delivering cost savings of £150,000.

These savings can be extended significantly when compared to conventional methods of working, achieving up to 92% savings.

This figure is one Hydra-Valve's CEO Steve Foster is very proud of:-

"...because this was provided to us by the largest water company in the UK, and is based on actual activities carried out by utilising our innovative techniques. The tasks, randomly selected, included work on varying types of valves, from the very large to very small and in all different applications. These were then compared to their traditional costs, showing a 92% cost saving."

The team at Hydra-Valve are all seasoned professionals, with specialist, self-sufficient and mobile teams that



provide onsite support for all your valving, pipe line, hydraulic and surveying needs. This is certainly one of the factors that have seen success and rapid growth since the group was created in 2011.

Risk Reduction

Each company assists the group with its own methods of reducing risk to network assets, personnel, customers, the environment and financially.

An example of this would be that a line stopping operation might be requested by a customer to allow for the repair or removal of an asset. Bypassing operations may be required to maintain supply requiring a large area to become part of a site. The surveying team would be able to survey this and propose that the asset is refurbished under pressure by Hydra-Valve without the need for a heavily intrusive operation.

Equally, an under pressure refurbishment operation may be taking place and as part of the risk assessment the Hydra-Valve personnel could request the support of Power Technology to provide line stopping service to ensure the safety of the operation whilst still maintaining supply. In addition to this it maybe that asset refurbishment may not be possible so Power Technology would be requested to insert new, fully functional valve into the system, under pressure, without affecting supply.

Carbon reduction and Protecting the Environment

Due to our unique methods, when a company employs the services of the Hydra-Valve group they are making a statement that as well as using more cost effective techniques they are also using more environmentally friendly methods. Calculations using the EA's own Carbon Calculator mean an average reduction of 0.3 tonnes of CO² per single valve replacement. Even on a small DN100 (4") the reduction is 97%.

This fulfils the requirements of ISO 14001 for meeting the objectives of a company to reduce its carbon foot print.

All our processes and technologies aim to be completed with reduced impact on the environment when compared with conventional methods, thus achieving the following;

- Zero excavations
- No traffic disruption creating unnecessary vehicle emissions

- Reduced or zero emissions through the reduced or eliminated requirement for motorised plant
- Reduced scale and cost of projects
- Reduced waste and no hazardous waste
- The use of sustainable energy

Emergency Response

As often happens in the winter months, the stress on the asset networks of water and gas companies often see pipe bursts and failures – all completely unpredictable as far as the utilities are concerned.

When a burst occurs, Hydra-Valve can mobilise a fully skilled team and attend site, and within less than 1 hour of being on site, will have 'sealed' the burst, using the patented and WRAS approved Leak Stop technology.

Using the other skills in the group, the emergency action is converted into a permanent solution. Power Technology will manufacture a full pipe encapsulation and have it fitted to the pipe within 24 hours.

The benefits that this turnkey solution provides go well beyond maintaining water and gas supply to people like you and me. Increasingly, the utilities are also measured on cost, environmental impact, and the inevitable loss of reputation. A swift, permanent response and solution keeps all these to a minimum.

For more information, please visit:

www.hydra-valve.com

or visit us at the **IWEX on Stand G10 in May 2012**.



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Midland-ACS - Helping Students Become the 'Next Big Thing'

A new educational support scheme for mechanical engineering students - Engineering Insight - has been launched with sponsorship help from PC World Business and McGraw Hill Publishing.

Engineering Insight is designed to engage with mechanical engineering students at renowned IMechE-accredited institutions, by setting real-world design challenges based on actual products and applications.

More than 200 students at Aston and Brunel universities will take part in the inaugural scheme in 2012, with projects, guidelines and support provided by UK engineering firm Midland-ACS. Students will be formed into teams of four, and asked to come up with new product design concepts for specific flow control applications.

To encourage problem solving within a team working environment Engineering Insight has set up an award for innovation, which will be judged by engineers at



The winning prizes

Midland-ACS. The projects for each university are based on detailed design criteria set out by the engineering department of Midland-ACS. As an incentive, members of the team at each university that create the best design solution will each receive a Samsung Galaxy Tab 10.1, courtesy of PC World Business. Spot prizes for each university will also be provided, to reward outstanding individual contributions as noted by the university course tutors. Additionally, every participating student receives the book *Engineering Formulas* by Kurt Geick, courtesy of McGraw Hill Publishing.

"Our aim is to help give students the best possible start to their working careers, as well as have a little fun during the process," says scheme organiser Andy Sealey. *"At the end of the project, every participant will be in a position to show prospective employers some real-world design experience in addition to their academic achievements."*

The design challenges complement the participating universities' existing degree course structures, which will remain the same. Engineering Insight projects will simply replace the theoretical design examples normally used. Each university will work on separate challenges, to avoid inter-university competition.

Engineering Insight hopes to extend the scheme to more institutions across the UK during 2012.

More information:
www.engineeringinsight.co.uk



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- **Simple Handling:** Flip-over plug (sealing surfaces can be used on both sides) assures simple handling and easy servicing; straightforward replacement of the plug sealing plate, identical nozzle ring for each orifice size
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Leengate's New Storage Warehouse



Leengate Valves' bulk storage warehouse

Due to their continued expansion, Leengate Valves are pleased to announce the completion of their bulk storage warehouse which has doubled the square footage of storage space available to enable even greater stock holding to coincide with the on-going development of the product ranges and actuation service.

Leengate Valves offer next day deliveries on stock items when ordered before 4:30pm, along with direct plain labelled deliveries using customer's documentation so you never have to handle the product, saving time and further carriage charges.

Leengate Valves see themselves as the "Distributors Distributor" supporting the re-sellers within the market.

As part of the on-going development, Leengate Valves will increase their stock range of Gate, Globe, Check & Butterfly valves up to 600mm and also expand the Actuation Centre to give a wider variety of products available on short deliveries.



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K-Tork retrofit assists environmental recycling

Rotork's recent acquisition, K-Tork International, Inc., has successfully completed a \$1.9M retrofit contract for the supply and installation of valve actuators at the Las Vegas Water & Pollution Control facility.

In a desert area that barely sees 4" of rainfall per year, the use of reclaimed water for irrigation and other non-potable uses is on the increase. Treating and delivering recycled water saves the cost of pumping water from Lake Mead. While recycled water for irrigation does not expand the Las Vegas Valley's available water supply, it reduces energy costs and the environmental impact. As a part of the reclaimed water treatment process, the tertiary filtration facility has 30 gravity filters that assist in removing the fine particles and phosphorous before the final disinfection treatment.

Prior to the upgrade, the valves on these filters were operated with AWWA cylinder actuators that did not provide reliable open/close or modulating service and were difficult to troubleshoot. The consulting engineer recommended the use of K-Tork vane actuators due to their simplicity (one-moving part) and long-lasting seal design.



Some of the retrofitted K-Tork vane actuators in the tertiary filtration plant at the Las Vegas Water & Pollution Control facility



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As a result, 205 K-Tork vane actuators were selected for retrofitting on the AWWA butterfly valves, ranging in size from 12 to 60", in the filter gallery and intake piping. The retrofit process was complicated and required a detailed field survey to measure the valve mounting dimensions, check for clearances and to provide easy operator access to the manual override and calibration points. Prior to fabrication, 3-D CAD drawings were provided for the engineer and end user, for review and approval.

All 205 actuators were installed without any linkage kit modifications or any obstruction issues and the commissioning was completed on-time. The success of this complex project was achieved with assistance from Southwest Valve & Equipment, the Rotork and K-Tork representative in the area.

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BVAA Desktop at Score Leads to Full Membership



Valve Industry Innovation at Score Europe

Score Europe Limited were pleased to host a British Valve and Actuator Association (BVAA) Desktop Exhibition in the VITAL Training & Conference Centre, Wellbank, Peterhead, on the 16th of November 2011.

This is the fifth time Score have hosted the show in Peterhead, in a tradition which started back in 2003. This year, 25 UK based manufacturers and service companies, who are all members of the BVAA, exhibited at the event, including the Association themselves.

Visitors to the exhibition included Score Group employees, selected Score customers and other invited guests. On arrival, visitors received a layout map of all exhibitors' stands and a summary of the focus of each desktop presentation, to encourage them to visit all stands. Over 100 visitors packed into the hall and engaged with the suppliers technical experts, who manned each of the displays.

The exhibiting companies were asked to focus their pitches on innovative new products and technology, which they felt would be of benefit to Score and its customers. All exhibitors showcased themselves differently, to try and attract the visitors to their stand. Some displayed their new designs of manufactured products (valves, actuators or associated equipment), whilst others simply focused on describing and promoting their latest range of services.

Conrad Ritchie, Deputy Managing Director of Score Europe said: *"This was an excellent event and we were very happy to welcome and host the BVAA members at the VTCC. The feedback we have received to date from all visitors suggests that the products on show, coupled with the expert technical knowledge of the exhibitors made the event the best of its type to date.*

It was refreshing to see both new and established manufacturers make the effort to showcase their latest products and technical developments. The UK based valve and actuator industry are world leaders and we will continue to do all we can to encourage them to maintain that position."

The event was highly successful and the Score Europe Limited Board would like to thank all

who helped make this event happen and of course everyone who attended.

Following the success of the event, the Score Europe board decided to become a full member of the British Valve and Actuator Association (BVAA). The benefits this membership brings will be tenfold with many Score personnel having the opportunity to contribute to current issues effecting the British valve manufacturing industry. More information on the benefits can be found at www.bvaa.org.uk/download/bvaa_members_benefits.pdf or by contacting Conrad Ritchie. A plaque recognising Score (Europe) Limited as full members of the BVAA is now displayed in reception.



The BVAA event proved to be a success



Score Europe Ltd

Tel: 01779 480000

Website: www.score-group.com

Communication Key to SIPOS Strategy

SIPOS' latest newsletter has been distributed to the company's customers around the world. Regular newsletters form a key part of a co-ordinated communication campaign for the manufacturer and international supplier of electric actuators.



The latest edition of SIPOST is published



Leaders in Valve Technology...



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To find out more please call our team
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The December 2011 edition of 'SIPOST' provides a review of the company's product, installations and agent successes over the year. A number of new global partnerships for SIPOS are announced in the publication and a series of case-studies give an insight into the latest actuation technology adopted by prestigious international power and water providers.

Testimonials from leading utilities include GKM, RWE and Sydney Water: benefits highlighted including simplified commissioning and extended life.

Latest partnerships detailed include representatives in Turkey, Mexico, Bangladesh and the Middle East. All agents meet SIPOS' exacting technology and service standards and profiles are provided in SIPOST.

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How to pick control valves with low life cycle costs

In light of economic instability, many organisations are redoubling their efforts to reduce operational costs and maintain profitability. Control valves may not at first seem a prime target, but Spirax Sarco's Paul Mayoh asks you to look again because there are real savings to be achieved by specifying valves that carry the lowest total cost of ownership (TCO)



Major processing sites often have valve populations running into the thousands. These organisations have well-developed processes for sourcing valves with low running costs to keep their OPEX (Operational Expenditure) to a minimum. More modest operations with fewer valves can benefit from a similar approach, thus making substantial year on year maintenance cost savings.

The key lies in the proper sourcing of valves that will give the lowest life cycle cost. The cost of prematurely shutting down a process to replace a poor quality valve that has failed, will far outweigh any capital costs saved at the time of purchase. So, in short, companies should avoid basing their decision solely on the initial price of the valve and look at the total cost of owning the valve.

The following criteria serve as a basic guide to purchasing valves with a low total cost of ownership. If a company employ them, there is a good chance that they will be rewarded with lower maintenance costs.

Aim to get best value for money

It has been estimated that more than 70% of a control valve's TCO is spent on maintenance. Purchasing valves that will give long service life and low maintenance costs can far outweigh the initial attraction of a "value engineered" valve, with a lower capital cost.

Search out valves that are quick to maintain

Valves that can be maintained and restored to duty quickly help to limit costly production delays, particularly when the maintenance is unplanned. A quick replacement of the stem seal, for example, means less downtime and less lost production. Rapid maintenance procedures also mean less time is spent on valves, enabling engineering resources to be deployed in other areas.

Even when the maintenance is planned, this is often scheduled during plant shutdowns when maintenance personnel have a heavy workload to achieve in a short time. Minimising the time spent on valves reduces the need for costly overtime pay or the hiring of third-party contractors, incurring extra costs.

Points to watch out for when sourcing valves include maintenance that is possible without removing the valve from the line and the ability to replace components without special tools. When the pressure is on, the last thing maintenance staff need is spending time hunting for a misplaced tool.



Valves that can be maintained and restored to duty quickly help to limit costly production delays

Look also for self-aligning, clamp-in-place internals. Valves with screw-in components can suffer from the seats seizing in place, requiring the valve to be removed from the pipeline and incurring a lengthy plant shutdown.

Insist on simple maintenance procedures

Not only do simple maintenance procedures reduce training costs, they also help to ensure that any maintenance work done will restore the valve to its full



It's important to choose a valve with both an extended life and simple maintenance, two key virtues of Spirax Sarco's SPIRA-TROL

operating capability. Complex maintenance routines carry a higher risk of valves not being re-assembled correctly, potentially reducing their performance. This can cause poor process efficiency and even lead to further maintenance to correct the error.

Size does matter

Ensure control valves are correctly sized. Approximately 50-70 per cent of control valves are oversized which leads to capital, operational & maintenance over expenditure. Make sure that the purchasing parameters are not decided upon with over enthusiastic or compounded safety factors.

Look for long maintenance intervals

Buyers of control valves expect several years of reliable life without major maintenance being required, such as replacing the stem seal. This figure is typically about five years, but could be ten years or longer depending on the application. Valves on lines carrying fluids with suspended particles or operating in dusty atmospheres may need maintaining more frequently than valves in less harsh applications.

Valves that have design features to minimise the impact of such conditions, for example by including wipers to prevent dust and particles getting into the valve stem, are likely to offer much longer service intervals throughout their life. Hard trim materials and a design that diffuses the discharge from the plug and seat and reduces internal flow velocities to minimise internal erosion, further extends valve life.

Ensure it's easy to change the valve's duty

It may not happen often, but occasionally there may be a major change in process parameters that requires new valves. Or a process line may shut down completely.

In such situations, control valves that use a modular design carry a cost advantage because they can be reconfigured to suit new demands relatively easily. Without doubt this could easily save the cost of purchasing several new valves. Modular valves also help to cut spares stockholding costs because components can be used with several different valves.

Consider the less obvious benefits of accurate control

Accurate control is of course important for the efficient running of any process. The use of positioners to provide precise valve movement contributes significantly to higher productivity and lower energy costs with their environmental benefits, as well as reduced maintenance. Accurate and smooth control tends to reduce the amount of valve movement and wear, as well as decreasing running costs such as compressed air consumption.

High quality valves that are well designed using modern design tools such as Computational Fluid Dynamics, can achieve smooth fluid flows under all conditions. Smooth flows lead to reduced internal wear and longer service life.

Good technical support to rely on

Take time to look beyond the valve specifications and review the supplier and the level of support it provides, particularly when specifying valves. The biggest impact of a poorly chosen valve will be poor process performance, leading to low productivity and poor product quality.

The running costs of a badly specified valve may also be excessive. A valve that is too large for a given duty, for example, will operate more closely to its seat and experience more trim wear. Equally, a valve that is too small may constrict the flow and lead to high velocities, reducing its life. An incorrectly sized and selected valve may also be subject to cavitation and noise in the flow, which can rapidly wear the valve internals.

So it makes sense to use the vendor's technical expertise to help get it right. Pick a vendor that has the in-house expertise and experience to provide support whenever needed.

Another aspect of the support service is rapid delivery. Fast delivery is not only essential when a plant failure or change in production occurs, but also eliminates the need for an organisation to hold several spare valves in stock.

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KOSO Kent Introl New Appointments



Left to right: Danielle Booth, Jack Henley, Adam McNally, Carl Mason, Roger Speight and Eddie Sheard

KOSO Kent Introl (KKI), has expanded its team through six new key appointments across the business, as the global specialist control valves manufacturer and supplier continues to deliver strong global sales.

David Limb, sales director at KKI said: "I am delighted to report on these latest appointments that further strengthen our 146-strong workforce. For future business development, it's important to bring in new graduate talent as well as attract experienced, well-established engineering staff."

"We now have three facilities in Brighouse and look forward to growing the business, both domestically and overseas, and exploiting opportunities in the oil, gas, petrochemical and power industry organisations."

Jack Hanley and **Eddie Sheard** start their careers as KKI graduate engineers. As part of the company's graduate engineering training scheme, they will gain experience across a range of departments. Jack's initial remit includes draughting, modelling and evaluating carbide vector trim technology. Eddie will support the senior design engineer in the subsea department. Jack and Eddie previously spent a year as undergraduate placements at KKI. Jack recently graduated with a degree in Automotive Design and Technology and Eddie graduated with a degree in BEng Automotive Design, both from the University of Huddersfield.

Adam McNally joins as control valve design engineer. He brings over seven years' experience in engineering design within the oil and gas, chemical, pharmaceutical,

subsea and mining sectors, having worked at the Smiths Group and Sabre Valves. Adam has a degree in Computer Aided Design (Mechanical Engineering) and an MSc in Mechanical Engineering.

Roger Speight holds the role of Quality Control Inspector and will be primarily involved in the dimensional checking and hardness testing of machine components. He brings with him a wealth of industry experience, including 24 years' machine shop experience and 23 years in remits covering inspection and quality assurance.

Danielle Booth is KKI's new QHSE assistant and will work between the Quality and HSE departments. She has been with KKI since 2009 and is currently receiving additional training for the role of document controller.

Carl Mason is the new purchasing manager, responsible for ensuring the quality, price and delivery of purchased goods meet business and customer needs. Previously, he spent five years at Tyco Flow Control, developing purchasing processes and procedures to enhance company efficiencies.

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Rotork Specified for Flow Control Duty

Rotork CVA specified for flow control duty on gas turbine pre-heater plants

Rotork's innovative CVA electric actuator has been specified for critical valve control duty on high temperature gas turbine pre-heater equipment supplied to the power generation industry. The application demands unrestricted modulation of a three-way valve to control the pre-heated temperature of fuel gas for electricity generating turbines.

The Rotork CVA actuators have been installed on seven skid-mounted units supplied to Riyadh PP11, a power plant project serving the capital city of Saudi Arabia. Manufactured by Petrogas Gas Systems in The Netherlands, the units heat the gas on its way to the turbines by passing it through a chamber that is surrounded by an oil bath that is heated to a temperature of 185°C.

A CVA actuator controls the position of a three-way valve on the inlet side of each unit to ensure that the process does not overheat. Operating from a 4 - 20mA control signal, the actuator moves the valve to control the heat output. Precise and responsive valve positional control, with repeatability and resolution at less than 0.1%, makes an important contribution to the overall high efficiency of the pre-heating performance.

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The completed CVA actuator installation



A Rotork engineer carries out the installation of a CVA actuator on one of the pre-heater skids at the Petrogas Gas Systems factory

Seven ATEX certified explosionproof CVO quarter-turn actuators have been supplied to operate 200mm (8 inch) Class 300 valves. The double-sealed CVA design also provides permanent environmental protection to IP68, with non-intrusive setting and commissioning technology. An integral data-logger facilitates valve diagnostics with predictive maintenance capabilities for efficient long term asset management.

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Belle Greve Pumping Station - T-T to the rescue!



Cheshire based Aquaflow, a division of T-T Pumps, are always prepared to leave their comfort zone to deliver solutions that exceed expectations!

Belle Greve Pumping Station is undergoing an upgrade to prolong its lifespan, work started in 2008 and it is crucial to the island's future sewage management programme. Aquaflow were approached by the principal contractor working on behalf of Guernsey Water after three DN600 wedge gate valves, supplied a few years ago by a framework manufacturer, had heavily corroded due to being in a saltwater environment.

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Heap & Partners Invest in Growth

Building on over 145 years of flow control expertise, Heap and Partners are investing in the future with new people and facilities to support their expanding product portfolio and customer base.

Heap and Partners specialise in the supply of valves, actuators, instrumentation and associate products for the Power & Process, Life Sciences and Oil and Gas markets. A number of key developments include Phase ball valve, Fisher control valves and two significant changes with their Saunders agreement.

Phase ball valve

October saw the launch of Heaps very first valve, an in-house development called Phase (an anagram of Heaps) which covers a range of Metal and Soft Seated Trunnion mounted side entry ball valves for the oil and gas market. This significant investment in a new British built valve has necessitated the expansion of the company's new headquarters to cope with the new product line. Although they have only been in their new headquarters for two years, they are already expanding it further.



Phase 6" Class 1500 Metal Seated Ball Valve

Fisher Control Valves

Heaps have now signed a National Distribution agreement with Emerson for Fisher Control Valves, Regulators and Positioners for all markets. By adding this market leading control valve to their product range it enables Heaps to provide a one stop shop for all their customers flow control needs. A range of only the very best brands in the market place.



Fisher GX Control Valve

Exclusive Crane Saunders agreement

Heaps and Crane have now signed an exclusive National distribution agreement of Saunders, HC4 Diaphragm Valves for the Life Sciences Market. Saunders market leading Aseptic brand will now be available through Heaps Life Science Division, a specialist Division that provides a range of aseptic products into pharmaceutical, biotech, medical and food markets.

In addition Heaps have also expanded its Saunders Industrial Diaphragm valve territory to cover the whole of England for Saunders Industrial Diaphragm Valves for the Power & Process markets.

Birmingham

From January Heaps are opening a new office in Birmingham. This is the latest addition to the existing offices in Liverpool, London and Middleborough. This office will help to develop Heaps national coverage.



Left to Right: Jason Richards, Teresa Cooke, Sarah Warrington, Steve Devon, Jack McEvoy, Peter Burnett, Ian Edwards, Andrew Will

areas with Anthony Newton, Valve Technician and Jack McEvoy, the second Apprentice the company has taken on this year. Teresa Cooke (formally of Wolseley) also joins Heaps to staff the new Birmingham Office. Plans are also in place to take on two more apprentices, a marketing assistant, a third design engineer and yet another inside sales position.

These appointments help to boost the already considerable skill set within the company.

"This is a very exciting time for Heap & Partners as it marks the start of the biggest expansion plans in our history and this is just the start!", said David Millar, Managing Director.

More staff

To drive this expansion Heap and Partners have recruited Andrew Will (formally of Weir) as Sales & Marketing Director, Peter Burnett (formally of Weir) as Business Development Manager for Phase, Ian Edwards (formally of Samson Control Valves) as Business Development Manager for Fisher, with new sales office support from Steve Devon and Sarah Warrington additional resources in the workshop



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Major Expansion for Dynamic Ceramic

Dynamic-Ceramic Ltd is a specialist manufacturer of Engineering Components from Advanced Ceramic materials making parts and assemblies to their customers' specifications and drawings.

Dynamic-Ceramic is also the UK's leading producer of "Transformation Toughened" ceramics; their unique Technox range has consistently outperformed any hard material in its class. The excellent erosion resistance of Technox ensures both extended component life and considerable cost savings due to reduced process down time.

Ceramics for Valves

These materials are now used with increasing frequency within the oil and gas sectors particularly within applications such as pumps and valves. This increase in use is firmly rooted in the excellent erosive wear resistant characteristics of the materials combined with an outstanding quality of service.

After a record breaking 70% increase in sales Dynamic-Ceramic Limited, an innovative manufacturer of world beating ceramic



TECHNOX Flow Trim Cages

TECHNOX 3000 Plug

solutions is pleased to announce the completion of a substantial investment program that has expanded manufacturing and office facilities by 50%.

"This significant investment will enable us to respond effectively to our customers' needs," states Tim Hazlehurst, Sales Executive of Dynamic-Ceramic. "We have invested in the latest grinding and inspection technology which has enabled us to stream-line our production processes and offer even greater levels of customer service."

"We understand our customers' requirements for a rapid response, quick turn-around of prototype parts and reliable lead times for production quantities," explains Simon Dodd, Sales Engineer. "In addition, to provide the most cost effective solutions we can also supply assemblies combining metallic and plastic materials with our Technox, Technide, Techcide and Dynalox ranges of advanced ceramics."

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CRANE Announces Launch of Saunders®S360

CRANE ChemPharma Flow Solutions™ is pleased to announce the global introduction of its new Saunders®S360 range of actuators for Life Science applications.

Featuring a modular range, this compact, lightweight, piston-type pneumatic actuator delivers optimum dimensional envelope and closure performance. Its full 360° rotation capability allows for flexible installation and air port alignment, and its smooth corrosion-resistant profile optimizes cleanability. This combination of quality performance and hygienic design makes the Saunders®S360 appropriate for sterile BioPharm applications including clean utilities, fermentation and downstream processing.

"In 2011 we introduced the Saunders®S360 to the North American industry via a soft launch during the Interphex Trade Fair in New York and we were pleased to see how well it was received by attendees," said Andrew Powell, Global Business Line Manager for CRANE ChemPharma Flow Solutions, Saunders. "The success of that North American launch was monumental and it has prompted us to expand sales globally and offer this innovation to other parts of the world."



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HS Pipequipment is a leading supplier of valves to the global Oil, Gas, Petrochemical and Power industries. The company provides a total service for the supply of manual and actuated valves to End Users, Contractors, OEM's and Distributors.

HSP have been operating as a valve specialist to the Oil and Gas industry for 30 years and has annual sales of £25m per annum.

With four Warehouses in the UK and Middle East and one of the largest inventories in Europe, we support customers in all parts of the World.



HSP Teesside Warehouse and Inventory

John Sinclair, Sales Manager at HSP comments: “*We are unique in that we provide a dedicated focus to our different customers be they Engineering Contractors, Maintenance Superintendents or OEM's and make it easier for them to source the valves they require.*

“It's our people, however, that set us apart. Our 40 staff have an accumulated 600 years of valve industry experience and together with an unrivalled attention to detail they provide our customers confidence that the right valve will be delivered on time.

“We also have partnerships with many of the world's best valve manufacturers which enable us to provide world class products and on time service for all that we do.

“Our Teesside Office supports our Petrochemical and Power Industry customers.

“With £5m of inventory and a team of experienced professionals, we're able to provide 24/7 support for many shutdown and emergencies. As a result of our stock holding (we hold one of the largest inventories of Bonney Forge Valves in the world) we also provide support to many valve distributors in the UK and internationally.”



HSP is the official Stockist for Bonney Forge in the UK

The Teesside team have an unrivalled reputation for customer care as a result of their fast and accurate response to all enquiries.

The following are some examples of our service in the last 12 months.

Case Study 1:

During a shutdown one Friday afternoon at a power station in Teesside, steam lines were due to come online the following day, however a number of defective high pressure chrome moly valves were identified. Although HSP held an agreement with the site and had stock on site, the valves were not part of the agreement as they were not usually needed quickly.

HSP quickly sourced the valves within Europe and had them flown to Teesside airport for Saturday morning. A member of staff collected them and ensured they were delivered to the correct contact on-site by midday Saturday so that the turbine was successfully re-started that day.

Following this, HSP met again with the client, identified how many valves of this type were on site along with annual usages and introduced them as a new range in their inventory. This now allows for HSP to deliver these valves immediately from stock should the situation occur again.

Case Study 2:

Following the on-time supply of what was believed to be the complete shutdown valve requirement, a local chemical plant on the Seal Sands site discovered, with one week to go, a 30" valve must be replaced in order to have the plant back up and running. The valve in question was not held anywhere in the UK, or even Europe.

HSP managed to source the valve in the US and had it air-freighted from Houston to London Heathrow and put on a dedicated HGV and delivered to site in 5 days. No other supplier was able to quote the valve on a lead-time shorter than 28 weeks.



HSP engineers regularly provide site support to customers

Case Study 3:

HSP were called to a local refinery to help identify some solenoid valves, which needed to be replaced. It turned out the valves were over 30 years old and had been superseded several times. The valves were required in two weeks in order to have gas burners switched back on.

With HSP's extensive product knowledge, a suitable replacement was quickly identified and with the support of Maxseal, a standard lead time of 6 weeks was reduced to 5 days and replacements delivered quickly. With the understanding that there were a further 90 units on site, HSP decided to add the item to their stock range to cover any eventual site breakdowns.

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Case Study 4:

A local site was having a new plant built in a modular form and a contractor had been appointed for project management and construction.

Working closely with various manufacturers, we were able to identify a suitable seal material for the unique process. As a mixed package, this material was also needed in the gaskets/packing sets in the gate, globe and check valves. We were able to supply all the gate, globe and check valves from stock and carry out packing and gasket changes and deliver to site in 2 weeks. For the ball valves, we commenced delivery from stock and delivered the valves with special seals in just 9 weeks.

Peter Everett, HSP's Chief Executive commenting on HSP's continued growth said:

"Much of our growth in the Petrochemical industry is due to our understanding of customer needs."

"Although valve designs have not changed in the last few years, the wide variety of different customer specifications and manufacturers has resulted in a high level of complexity in the industry."

"Our fantastic team of personnel help customers by working through the options available and then source and deliver the right product on time."

"Valve procurement often occurs under tight time pressure and if valves are being manufactured there are often delays that require careful and quick management. We work proactively with clients and manufacturers to resolve all the technical issues and make sure that the right product is supplied on time."

"With 600 man years of experience we really do take the pressure!"

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A Welcome Boost to EnerMech



EnerMech valve technician Brian Lowrie carries out valve testing at the company's new Aberdeen facility

EnerMech has extended the capability of its Valves Care Division with a number of key appointments and investment in facilities and equipment totalling £3.5 million.

The mechanical engineering specialist is also looking at several potential acquisitions which will enlarge its operational footprint in the Middle East, Asia and Australia.

Bob Stephen has been appointed general manager for EnerMech's UK valves operations and joins from Wood Group where he was engineering and choke valve manager and had global responsibility for the company's choke valve product line.

Other appointments include Iain Stewart as production manager and Andrew Whyte as workshop supervisor. Tim Milne has been promoted to the role of international sales manager, while Bruce Campbell, who spent 20 years with valves specialist Score, now heads up EnerMech's valves business in Australia.

The £3.5 million investment follows the acquisition of Aberdeen Valves Supplied Ltd and subsidiary LG Ball Valves Ltd in December 2010 and includes building a new valve workshop and warehouse at EnerMech's Aberdeen headquarters. The enlarged premises includes a state-of-the art test bay, featuring a remote access HD system which can be used by clients to watch live testing of valves from any location, facilities for gas, cryogenic and pressure safety valve testing and a large humidity controlled storage area.

In-house design, machining and testing capabilities mean ball valves can be delivered within a 16-18 week

window while a Fast Track service can cut delivery times to 6-8 weeks when required.

EnerMech managing director, Doug Duguid, said: *"Our Valves Care division will greatly benefit from this significant capital expenditure and the recruitment of high calibre personnel who have a wealth of experience in valve design, production and testing."*

"We have a blueprint in place in Aberdeen to provide a level of valve care which is unrivalled in the current marketplace. Our objective is to roll that out to the major oil and gas hubs in which we operate and we will do that by a combination of organic growth and selective acquisitions, and we have identified a number of potential acquisitions which fit this strategy."

"Bob Stephen's appointment as valves general manager gives us a tried and tested leader whose experience can guide the Valve Care division in to new markets and add considerable growth to our revenues. The other appointments and promotions will ensure the success of our UK valves business is mirrored in international markets."

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Rotork Works Through the Night Assisting Repair of Fire Damage

The Singapore office and workshops of flow control specialist Rotork are working 24 hours-a-day to assist Shell in its recovery efforts after a fire at its Pulau Bukom manufacturing site.

The fire, which broke out in a pump house on 28th September, took almost two days to put out at Shell's largest refinery in the world, which has a refining capacity of 500,000 barrels a day.

Urgent work is now in progress to repair the damage with the minimum of delay. Rotork's specialist Site Services department at Singapore is making an important contribution to this effort by initially helping Shell to actuate new valves for the most urgent

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Work in progress at the Rotork Singapore workshop. Actuated valves await despatch to the Pulau Bukom site

repairs. For maximum expediency, Rotork electric actuators installed in unaffected areas of the site are being removed and shipped to the Rotork Singapore workshop for fitting to new critical plant replacement valves. Rotork engineers are also assisting with the on-site installation and commissioning of these actuated valves.

At the same time, new Rotork IQPro intelligent electric actuators have been ordered for new valves to be installed in the site as a part of the longer term repair programme. Many of these actuators will also be fitted to the valves at Rotork's Singapore workshop and delivered as complete factory tested motorised packages to site, where Rotork engineers will provide installation and commissioning services.

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AUMA Selected for Defence Scheme



The Venetian lagoon scheme (left) and example of AUMA Generation .2 actuators supplied (right) for the prestigious Mose flood defence project.

(Left Image accredited to Ministry of Infrastructure and Transport - Venice Water Authority / Consorzio Venezia Nuova)

In one of AUMA's most prestigious flood defence projects, and the largest order to date for its Generation .2 product series, almost a thousand modular electric actuators are being installed in a major scheme to protect the Venetian Lagoon in Italy. The high technology structure, known as Mose, is in an advanced stage of implementation.

Forming part of a major plan for the physical and environmental restoration of Venice's entire Lagoon basin, Mose links the defence of the City with the architectural heritage of historic buildings and the Lagoon's ecosystem. Protection from high waters, and recovery of the Lagoon's resources, are incorporated into the scheme. The measures to safeguard the Lagoon are being implemented as part of an integrated and systemic programme by the Consorzio Venezia Nuova, on behalf of the Italian State (Ministry of Infrastructure and Transport - Venice Water Authority).

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Mobile barriers are being constructed to defend the Lagoon area, its inhabitants, towns, cities and historic/ artistic/environmental heritage from high water. AUMA Generation .2 AUMATIC actuators were chosen by ITALVALV to aid automation of the dam's barrier gates. The actuation technology was integrated by ITALVAV into its emergency system which operates high performance control ball, butterfly and globe valves, required for on-off and modulating services.

Key reasons cited for selection of AUMA's adaptable valve automation products included zone 2 explosion protection, required to protect against methane gas leaks. Reliability of performance is ensured with plug housing incorporating fail safe technology within the power supply and feedback system. And, as a result of using AUMA's new generation products, full flexibility of control is afforded with redundant Profibus DP communication, in combination with conventional and analogue (4-20 mA) controls.

A total of 981 AUMA actuator and gearbox combinations are being installed as part of the Mose scheme over an 18 month period.

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The HQ range of electric actuators features torque figures from 40 to 10,000Nm with a variety of control options including fail-safe battery backup actuators. The HQ is now widely used throughout the UK by some of the industries leading manufacturers and utility companies. HQ electric actuators are also available with ATEX Exd certification.



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Pump Discharge Butterfly Valve



2400 mm Nominal Diameter Pump Discharge Valve, Body mounted operating cylinder

eTec have supplied and installed new Pump Discharge Valves, valves to interchange within existing locations, and also refurbished Pump Discharge Butterfly Valve for a UK Thermal Power Station.

Hydraulic operated Butterfly Valves can be used on water pumping stations for valve sizes above 300mm. A single Hydraulic operated Butterfly can replace a non return valve and isolation valve combination provided in a pumping station. A single Pump Discharge Butterfly Valve will reduce initial procurement costs, save space and reduce maintenance required.

A hydraulically opened butterfly valve closed by a lever arm mounted counter weight is designed to activate automatically and protect a pump from reverse flow. The valve also provides isolation for pump maintenance, and is fail safe as no external AC power is required. Operating time is calculated to suit customer's system requirement to eliminate surge pressure. Dual speed closure is possible with throttle valves and adjustable damping in the hydraulic cylinder.

It is operated by a hydraulic power unit and electrical control panel from a local or remote control signal



96" Nominal Diameter Pump Discharge Butterfly Valve, Floor mounted operating cylinder

which can be integrated with the pump operation logic. Other design features include streamlined disc design for low head loss saving pumping energy costs. Depending on the flow characteristics an open stopper designed to stop disc movement due to flow disturbance can be provided.

Open and close locking arrangement for maintenance purposes can be provided within the lever or on the non-drive shaft assembly. The Valve can be supplied with the hydraulic cylinder mounted on the valve body. This design eliminates the need for separate cylinder foundation and has no hydraulic reaction forces transmitted to the valve foundation.



eTec Engineering Services Ltd

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Website: www.etec.uk.com

Rotork Valvekits Acquires Pro-Kits Ltd

Rotork is pleased to announce the acquisition of Pro-Kits Ltd, a designer and manufacturer of valve adaptor kits and accessories for the valve industry, based in Mansfield, UK. Rotork has acquired all the share capital of Pro-Kits.



Craig Mellins, General Manager of Rotork Valvekits

Pro-Kits has been known to Rotork for many years and the company has built an established customer base for valve adaptation kits and accessories.

The sole owner of Pro-Kits, Craig Mellins, has been appointed as General Manager of Rotork Valvekits into which the Pro-Kits business will be merged.

Commenting on the acquisition, Rotork Chief Executive Peter France said: *"The acquisition of Pro-Kits, for which Craig Mellins has established a good reputation in the market over the last decade, will increase the customer base and scale of our Rotork Valvekits valve adaptation and accessory products business."*

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Kent Introl Prepares for Nuclear



Denis Westcott, Managing Director of Kent Introl

Control and choke valve specialists KOSO Kent Introl are preparing to supply the nuclear sector, having recently successfully completed Nuclear AMRC's Fit For Nuclear assessment.

The company was founded in 1967 as Kent Introl Ltd in Brighouse, Yorkshire. Its initial aim was to provide a specialised control valve service for the rapidly expanding UK energy industry and for the continuously changing petrochemical industry. Kent Introl Ltd. quickly established itself within these industries and soon achieved a reputation for delivering high quality control valves of both conventional, and customised high technology, designs.

Today Kent Introl places great emphasis on their 'in-house' design capability. They have a highly skilled design and engineering department, and qualified engineers are always available for consultation on challenging applications. Throughout its history, Kent Introl has remained focused on their original objectives and are now recognised as one of the world leaders in design and manufacture of surface and subsea control valves, severe service valves, and surface and subsea choke valves. Three years ago, the company started looking at opportunities in the nuclear industry as a way to diversify its customer base.

"We have a history of supplying subsea valves, and there are a lot of similarities between subsea and nuclear in terms of quality requirements," says Denis Westcott, Managing Director of Kent Introl.

But with no previous experience of nuclear, the company assumed it would need ASME 'N-Stamp' accreditation and was deterred from going any further.

Late in 2011, Kent Introl was invited to take the Fit For Nuclear assessment by lead assessor Dave

Roberts. After Kent Introl's managers completed the online questionnaire and received initial feedback, Roberts visited the company to take a more detailed assessment and advise the company on the way forward.

Roberts says: "*Kent Introl is exactly the kind of company we want to engage through Fit For Nuclear - an established supplier of high-quality products with the ambition to tackle new markets."*

One of Roberts' key messages was that companies at Kent Introl's position on the supply chain didn't actually need ASME accreditation. *"Nuclear quality is a confusing area even for established manufacturers, and demystifying the requirements is a significant part of our work,"* says Roberts.

"Fit For Nuclear has been a very good guide in," says Westcott. *"Even though we had a limited amount of experience in nuclear, it was a very useful programme to talk to someone about what we need to do. If we'd carried on as we were, we would have gone after N-Stamp which would have been unnecessary."*

The Fit For Nuclear assessment also highlighted areas where Kent Introl could improve its performance and operations to better meet the strict demands of the nuclear industry. *"There were some areas which we were already aware of, but it put the emphasis on the need to get on with it quicker,"* Westcott says.

Kent Introl has now employed a consultant to help it prepare for the nuclear supply chain, and is rewriting its strategic plan to include the lessons of Fit For Nuclear.

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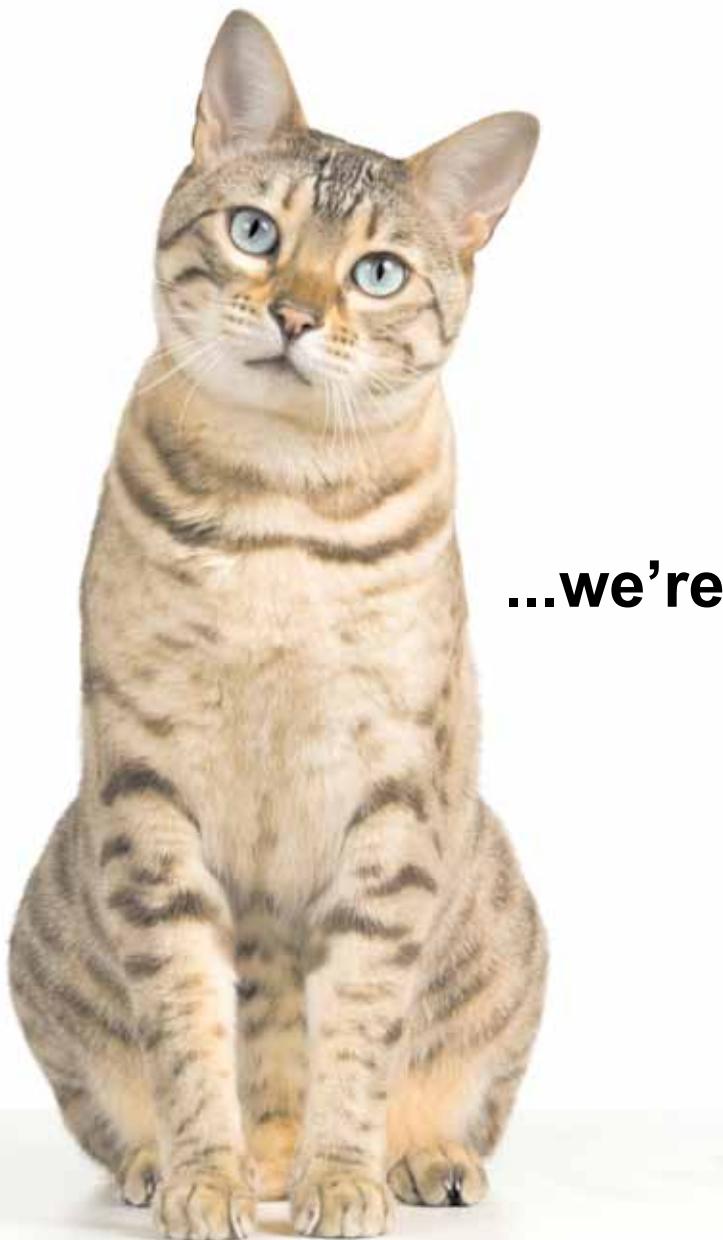
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We have been assured that no cats were harmed during the production of this photograph and that Cyril, (shown above), was rewarded for his time with a fish.

K Controls Expands Range of Position Transmitters

Position Transmitters are used to monitor the position of modulating control valves or the opening and closing characteristics of critical isolating valves.

The information from the transmitter can be used to diagnose valve performance in order to prepare the requirements for early preventative maintenance, or to automatically adjust various control parameters in the positioner or controller. The ultimate objective is to improve process quality and increase plant throughput.

With modulating control valves, closed loop controllers will try to compensate for deteriorating valve performance but eventually it will be impossible to maintain a given set point. Backlash in mechanical linkages and stiction in valve glands and seats can be detected by tracing the valves response to a changing input signal. The trace of the valves actual position, relative to a steadily increasing input signal, can be recorded when the valve is new and then compared to other movement traces recorded throughout its life. It is also possible to check that a control valve has been sized properly when first installed. For example if a valve is only controlling by spending most of its time close to the fully open or fully closed positions it is likely that it is too large or too small and control will be compromised.

Speed of response, hunting or overshoot can also be monitored with a position transmitter. If a control valve responds to a signal change too slowly, hunts or overshoots the desired position significantly before settling into control, then the process quality and overall system performance will suffer. Speed, hunting and overshoot problems could imply air leakage, incorrect actuator sizing or inappropriate positioner gain settings. It is also possible to use the position transmitter to trace valve position against flow rate. A control valve can continue to function well without backlash, stiction, actuator or positioner problems. The performance of the control loop can be affected by gradual wear of the plug and seat within the valve,



Position transmitter

or a build-up of deposits in the valve or its surrounding pipework.

Limit switches can also be fitted in a position transmitter. A valve will no longer control when it is fully open or closed, although the control loop will keep trying. This can cause the control algorithm to "wind-up". In turn, this can cause the valve to oscillate for a while - even when the process variable returns to the controllable range. Some controllers can adjust the algorithm to eliminate control "wind-up" when end of travel is detected via the limit switches.

Similar movement traces can be produced for critical isolating valves. Limit switches can confirm that the desired position has been reached but a position transmitter can determine if the valve is moving smoothly or hesitating somewhere in mid travel.

Valves are sometimes partially stroked to an agreed schedule and in accordance with planned maintenance procedures. The PLC monitors the movement via the position transmitter and issues an alarm if the time taken exceeds a pre-defined limit. Valve movement can be graphically displayed and any irregular patterns can be investigated. This process ensures the valves are in good working order and ready to react if a programmed shut down of the system is required in the event of an emergency.

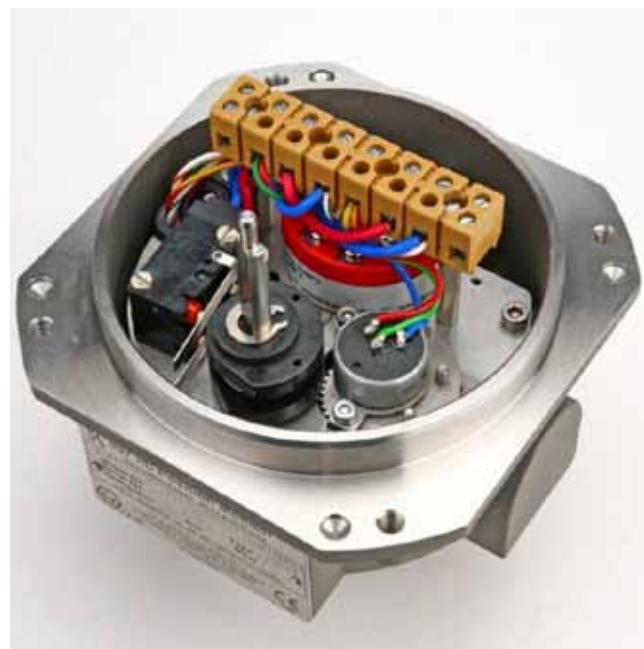
Most K Controls position transmitters contain a potentiometer driven from the actuator via a gear set. A clutch drive system prevents damage to the potentiometer and gears through over travel of the input shaft. Limit stops are provided within the drive to ensure the wiper in the potentiometer remains within the limits of electrical rotation. The resistance of the potentiometer is measured by a resistance-to-current transducer circuit in the enclosure. Non-contact sensing devices are optionally available.

The transducer is powered entirely from a two wire current loop and will generate a 4-20mA signal that will vary with changing valve position. A standard twisted pair of wires is all that is required and the signal is relatively immune to noise. The 4-20mA signal can be matched to the open and closed positions of the valve by adjusting the "zero" and "range" settings on the transducer. The latest versions allow this to be done by simply pushing and holding a button at each end of travel.

A resistance-to-current transducer circuit with a built in HART® facility permits data acquisition or transmission to and from the position transmitter. This is very useful for remote monitoring or calibration. Digital data is transmitted by superimposing it on top of the 4-20mA analogue signal. HART® stands for "Highway Addressable Remote Transducer". A hand held HART® calibrator can be connected to the cable at any point between the position transmitter and the control room. The hand held device can then be used to remotely calibrate the ends of travel and also input the date of calibration and valve tag number. The same device can be used to read valve position, calibration date and tag number from the position transmitter. This can be particularly useful if the position transmitter is located in a hazardous or physically inaccessible location. Ex certified versions of the hand held calibrator are available for use in hazardous areas.

Transducers that operate entirely digitally are now available that use the PROFIBUS® or FOUNDATION™ Fieldbus protocols. These offer similar benefits to HART plus the possibility of multi dropping a number of position transmitters on a single fieldbus spur.

Wireless position transmitters are also available where installing hard wired technology would be costly and disruptive.



Internal view of position transmitter

K Controls has a wide range of solutions for use in hazardous or hostile environments. Versions are available with coated aluminium or stainless steel enclosures, Exi or Exd protection for use in Zones 1, 2, 21 and 22 for use with hazardous gasses or combustible dusts and for use in the temperature range -60°C to +120°C. Versions with the following approvals are available: ATEX, IECEX and CSA for Canada and the USA. There are special versions for sub-sea use to a depth of 2000 metres.

If you require accurate valve movement data to both improve the performance of the control loop and or give early warning of deteriorating control valve performance, the chances are K Controls have a solution.



K Controls Ltd

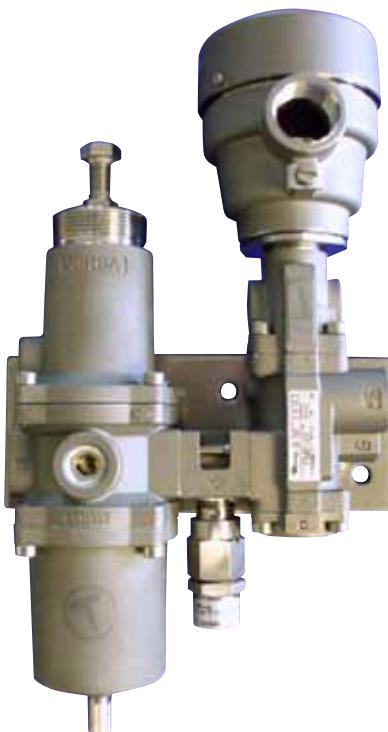
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Website: www.k-controls.co.uk



Versatile Controls Introduce VERSA C-316

Versa Products' C-316 Series Modular Air Package (CMAP) consists of the most common pneumatic components and accessories utilized in the valve automation industry.



A CMAP system consists of a regulator, filter, gauge and directional control valve all in one. CMAP offers a cost effective complete package for basic valve control systems. Versa's "out of the box" philosophy holds true for CMAP. Fully assembled and tested at the factory be reassured this system will be trouble free.

CMAP is all stainless steel construction available in 1/4 inch basic size with Viton seals. An all investment cast 316 design is utilized to maximize flow while reducing overall size and weight. CMAP is the smallest 1.5 Cv package available on the market today!

CMAP systems are easily specified. All systems include integral mounting means for easiest installation. These features reduce engineering design and specifying costs. Cost reduction benefits include reduction of fittings and tubing further reducing engineering, fitting and installation costs.

CMAP is based on Versa's field proven C-316 and AR Series. All inter-component connections utilize "O" ring interface sealing reducing potential leakage points. The combination of C-316 & AR reliability, "O" ring sealing and a simple design principal all provide a reliable and easily maintained product. CMAP is the sensible choice.

Modular Concept

The basic CMAP system is made of two configurable modules. Module one is the air preparation module

consisting of regulators, filters, gauges and drains. Module two is the control valve module consisting of many different variations of 3-way control valves.

The Air Prep Module

Consisting regulators, filters, gauges and drains. Based on Versa's AR-316 Series this proven design is small, high flow, simple and configurable. Regulators are equipped with tamper proof adjustment locknut preventing unwanted changes in pressure. A manual drain is standard however an auto drain can be easily specified as an option.

The Control Valve Module

This is based on Versa's C-316 Series introduced over a decade ago. This proven design is small, yet yields high flow. C-316 valves are also simple and configurable in design. The C-316 Series has become a leader in the 1/4 inch size control package market.

Furthermore, the C-316 Series is available as a solenoid, in almost every hazardous area classification, as well as pilot, manual or latching configurations.

Options

- Mount in any orientation.
- Threaded mounting holes are supplied as standard or utilize optional bracket.
- Optional auxiliary port for monitoring and pressure take off.
- Optional speed controls, and relief valves.
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South American Power Scheme for SIPOS

An industrial fan installation for a major emissions reduction programme in Chile is supported by SIPOS 5 HiMod actuators. The extreme precision actuators have been selected for a \$170 million power plant project managed by generator E-CL SA.

Italian based Industrie CBI selected SIPOS' actuators for the ambitious environmental retrofit project that incorporates the Tocopilla thermal power station and Mejillones coal fired plant. With Tocopilla alone generating over 1,000 MW of power, the programme is a highly significant green scheme for South America.



The SIPOS 5 HiMod actuator supplied for a \$170 million power plant project in Chile

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SIPOS 5 HiMod actuators were selected for their advanced flexibility and accuracy. The first two actuators will be supplied in November 2011, followed by subsequent commissions scheduled for February and September 2012.

Launched in 2010, the SIPOS 5 HiMod is designed to complement the actuator manufacturer's established 5 Flash product series, that has been supplied for industrial valve applications since the late 90s. Designed to address the most challenging valve control requirements for high end modulating duty, precision and longevity, the SIPOS 5 HiMod is ideally suited to the meet the demands of power industry installations.

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Schubert & Salzer Easy Retrofit



These two feedback modules, the RM2 and the RM3, are available as options for the 8049 digital positioners. Thanks to their plug & play operation, they can also be retrofitted easily into positioners that are installed already.

Feedback modules indicate the current position of a control valve. In doing so, they assist in optimising control precision. In the interest of process optimisation, therefore, Schubert & Salzer Control Systems has developed two optional feedback modules especially for the popular digital positioners in the 8049 V5 series.

Designed as a plug & play solution, both feedback modules, the RM2 and the RM3, can be easily retrofitted to all 8049 positioners already installed which have the V5 hardware version of the positioner electronics.

In both modules, feedback takes the form of a 4 to 20 mA signal in a 2-wire lead. The outputs are galvanically isolated from each other and right up to the controller. There is no need to balance or adjust the feedback modules. Furthermore, in each case two independent and adjustable limit switches are available.

The RM2 feedback module has been developed for the 8049 positioner in the 4-wire version. The limit switches, freely selectable between 0 and 100%, can be adjusted very precisely with a ten-turn potentiometer and need no supplementary power. The switching points are shown on a LED display. Low loads (AC/DC, 24V/70 mA) can be switched directly by the module.

The RM3 feedback module can be used for both the 2-wire as well as the 4-wire versions of the 8049 positioner. In the RM3, the limit switches can be configured very easily using the "Device Config" PC software. They are also designed in compliance with NAMUR (EN60947-5-6) so that short circuits and line breaks can be monitored simultaneously.

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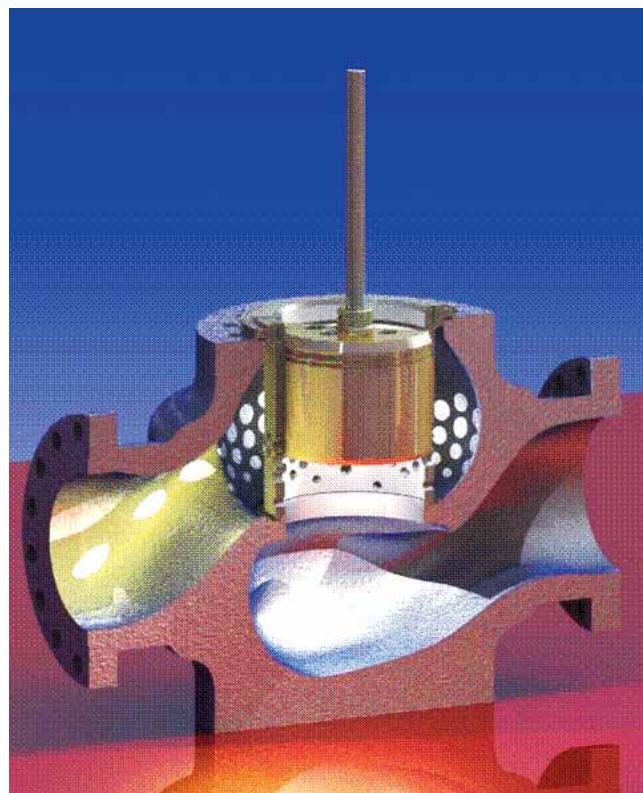
Score Europe Expand Support Services

Score Europe open Aberdeen facility expanding their control valve technical and Sales Support Services

In order to further compliment Score Europe's Control Valve Support services in the Aberdeen area, their Senior Control Valve Engineer, Steve Abel has relocated from their Brighouse facility to a newly opened engineering facility near Aberdeen city centre.

Steve brings with him 20 years of experience in providing control valve technical solutions particularly in the area of severe oil and gas service. Score's control valve overhaul, repair and supply service has been enhanced by a team of technical control valve engineers who provide application reviews, troubleshooting and failure analysis support. Their vast experience is strengthened with the use of manufacturers sizing software and independent software (CONVALTM) allowing detailed analysis of control valve problem areas such as cavitation, flashing, noise levels, energy dissipation, vibration and erosion potential. Once highlighted, these problems are eradicated using combinations of upgraded component designs, superior materials and alternative products.

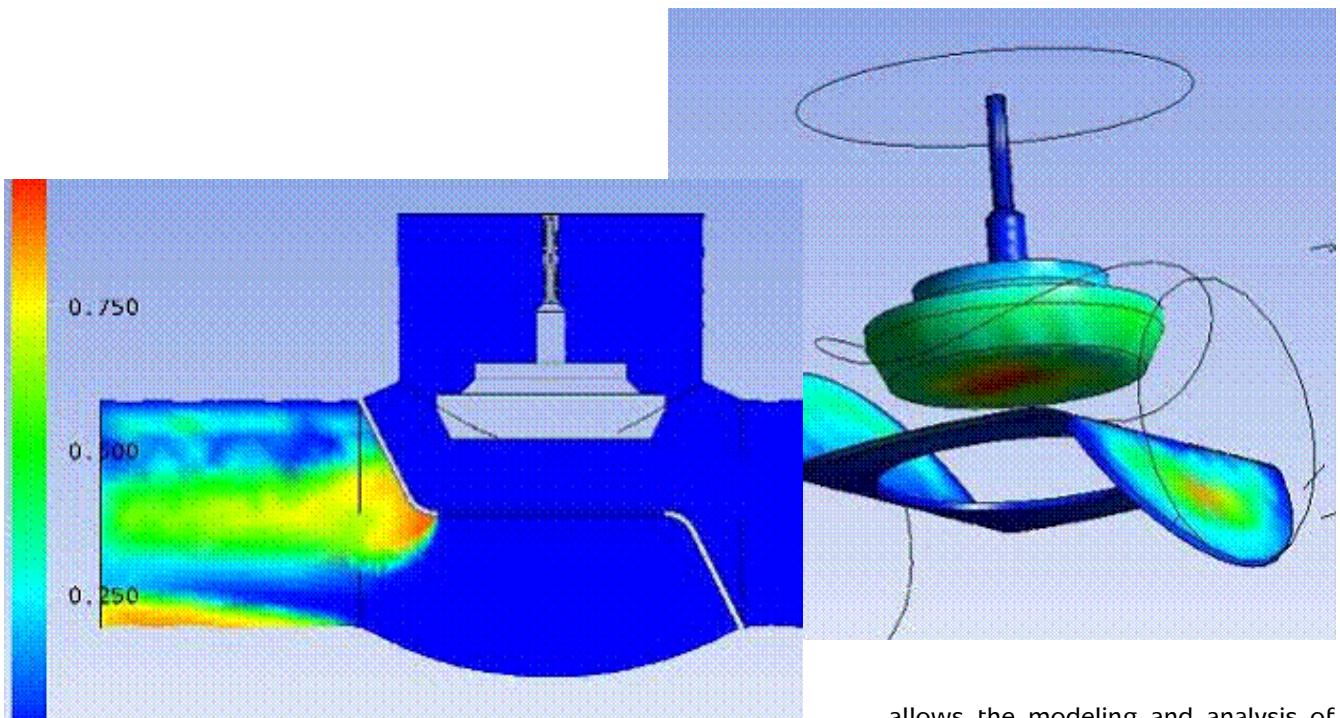
New to our Control Valve problem solving portfolio is in-house developed Control Valve Trim Sizing Configuration (CVTSC) which allows cage hole patterns to be designed quickly and effectively. The primary objective was to produce a semi-automated method of designing a characterised cage hole development to speed up the process: the manual method can take up to 2 days to complete. The CVTSC, allows the hole structure to be inputted manually while the software methods perform a substantial amount of calculations to determine the capacity Cv and characteristic curve. The hole structure can be quickly modified manually to achieve the desired results. The CVTSC now allows hole patterns to be designed in less than 30 minutes. The results are exported to a geometric 3D modeling package in order to produce the manufacturing drawings.



See here a 3D solid model of a new control valve trim designed, manufactured and installed into a 10" 300# duplex stock valve for Score Eastern Canada

Combined with Score's industry leading control valve stock inventory, we now have the ability to design and manufacture new internal trims in order to supply our clients with solutions in record time. In October 2011 a valve was selected and picked from stock, fitted with a new trim designed and manufactured in house witness tested, packed and shipped out to the Saudi Aramco Rabigh Refinery in a 3 week window.

We are further enhancing our services in the Finite Element Analysis (FEA) and Computational Fluid Dynamics (CFD) section of our Engineering Group. The suite of packages combined with expert users



CFD Analysis of a control valve showing fluid flow paths, velocity, cavitation and the corresponding fluid pressure on the solid parts

allows the modeling and analysis of complex mechanical and fluid coupling problems in order to recommend and effect solutions.

Conrad Ritchie Deputy Managing Director said: "Our teams continue to provide industry proven Control Valve Support service and training from both our Peterhead and Brighouse facilities, the creation of this new service in Aberdeen will give our customers a leading edge quality service with fast turnaround complimented by our independent ex-stock total valve solutions worldwide."

With the addition of Aberdeen as a local base, Steve and his team will provide high quality technical support to control valve users in the Aberdeen oil and gas sector. Steve can be contacted at:- steve.able@score-group.com or tel:- 07534 454 025 www.score-group.com.

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CVS increasing Valve Life Expectancy

With a reputation as innovators, Control Valve Solutions Limited (CVS) has launched into 2012 with a comprehensive upgrade of its bespoke valve management software Valve Manager to increase valve life expectancy.

Designed in-house, Valve Manager allows clients to track the progress of every valve being repaired or overhauled as well as receive automatic notifications of forthcoming maintenance requirements. The recent upgrades now mean that CVS' valve management is fully integrated and the process of clients retrieving data has been simplified.

Mac Stevenson said "The feedback from clients has been extremely positive because they can now better anticipate potential risks and ensure any downtime is as short and smooth as possible. We work very closely with clients to identify all factors and ways to continuously improve production and these have formed part of some of the upgrades."

The key principal behind CVS' fully integrated valve management service is that the long term reliability of valves is significantly improved which means that unplanned shutdowns are reduced and planned shutdowns are more efficient.

CVS fully understand that resources need to be focussed and with this in mind its comprehensive valve criticality analysis effectively pinpoints which valves need to undergo immediate maintenance and predicts when other valves will need to be repaired, overhauled or replaced. All CVS clients are also reassured by the fact that every valve is pushed to its performance limits on CVS' purpose built test rig (pictured) before being signed off.



Purpose built Valve Performance Test Rig

Clients choose from a modular based valve management service ranging from complete platform valve service with full inventory control through to either a specific or critical valve management service. Irrespective of the level of service the CVS team is thorough about the detail of the information recorded and produce an extremely detailed Inspection Report.



CVS Valve Manager Screenshot

Mac Stevenson, Sales Manager commented that "This level of client interaction relies on the quality of the data retrieved from the initial survey, inspection and the subsequent criticality analysis as well as the comprehensive technical, project management and financial documentation stored."



CVS Tower Survey in action to produce a detailed Inspection Report

As Mac continues to build firm relationships with some of the UK's largest platform operators he added "Our team of control valve engineers is dedicated to full life valve management and this is where CVS Manager gives clients the utmost confidence in future valve reliability and performance. All the data stored in CVS Manager is accessible to clients who have been fully trained. We are absolutely 100% committed to making ongoing improvements to our valve management service and anticipate a significant increase in demand for our services as clients demand a much better return on their investment in plant and equipment."



Control Valve Solutions

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Rotork CVA Actuators in Refinery Automation Project

An oil refinery in India has selected Rotork's latest electric control valve actuation technology for the automation of metering pumps in Group 2C hazardous areas. Sixteen CVL500 linear actuators with IECEx international explosionproof certification have been ordered to control metering pump valve positions by means of a 4-20 milliamp signal and provide remote status indication. The actuators are also equipped with hand drive mechanisms to enable manual operation of the valves.

The innovative CVA is engineered to deliver high precision valve positioning and facilitate the tightest possible tolerances on the process variable in order to optimise process quality and output. On loss of mains power, built-in super capacitors enable the CVA to move the valve to a desired position, programmable as open, close, any intermediate position or stay-put.

The CVA uses a variant of Rotork's well established 'non-intrusive' wireless communication technology for actuator programming, commissioning and adjustment. Actuator set-up and configuration is performed using a Bluetooth enabled PDA or PC running Rotork Enlight software. Every CVA incorporates an onboard data logger, enabling operational data including valve torque profiles, dwell times, actuator events and statistics to be downloaded for investigation and diagnosis. After analysis, any required configuration changes can be uploaded into the actuator.

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

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Double Celebration



CPI Pneumatics are having a double celebration with 20 years of trading and now appointed by Parker as the Authorised Distributor for the East Midlands.



Managing Director Steve Fletcher said: "This year is going to be a busy one for us not only with the 20 year celebration and now with

Steve Fletcher, Managing Director CPI Pneumatics

Parker on board as there will be many new and exciting opportunities with such a recognised name."

The Parker name is well known within the industry with brands: Legris, Origa, KV, Lucifer, Rectus and Schrader Bellows.



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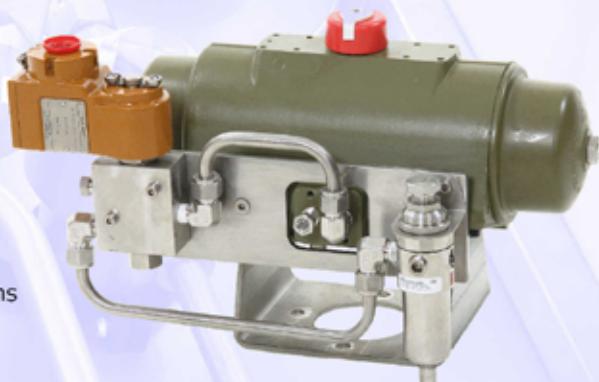
Solution To Reduce Assembly Times For Actuated Packages

As a major stockist of Parker A-Lok™ twin ferrule compression fittings and a complimentary range of instrument tube, Heap & Partners Instrumentation Division are now offering packs of pre-bent tube and fittings for actuated packages. Supplied in kit form, the tube is supplied to your specific requirements and comes with all necessary fittings for your installation, providing a ready made solution to reduce assembly time.

Fittings are available in imperial & metric sizes. Materials include stainless steel 316, brass and a range of exotic grades including Alloy 625, Alloy 400 (Monel), 6MO and Hastelloy.

To compliment our range of Parker fittings, we can offer from stock, a range of stainless steel grade 316/316L seamless instrument tube to ASTM A269. Imperial and metric sizes available in 6 metre lengths as standard, but can be cut to required lengths. We also have some stock of exotic tube.

We are also a main distributor for Parker solenoid valves and can provide a range of solenoids including NAMUR mount and stainless steel offshore specifications.



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The only source of knowledge is experience

Hardide in Field Use on BP's Block 31 in Angola



enabled UNITECH Offshore AS to design a unique ROV-operated subsea high-pressure connector with integrated ball valve for use in critical production applications including wellhead control, gas lift and chemical injection.

The UH-500 connector integrates a 2" reduced bore ball valve into UNITECH's standard UH-550 2" male stab connector resulting in an extremely compact and short assembly. Opening and closing of the ball valve at full working pressure of 10,000 psi is by a handle mechanism operated by the ROV manipulator while the ROV remains connected to the female connector with its class 4 torque tool.

The connector is now in use for customers including Cameron and BP on the latter's Block 31 field in Angola.

Uwe Bauersfeld, general manager, UNITECH Germany GmbH commented: "An extremely low friction, non-porous coating with superior wear resistance and a smooth surface finish was required for the ball and sealing cartridges. Hardide-T provided a cost effective solution that could meet the challenging conditions in

A new low friction, non-porous, wear resistant tungsten carbide coating from Hardide Coatings has

which the UH-550 connector operates and we now have more than 120 units in the field."

Bruce Robinson, chief operating officer of Hardide plc said: "Hardide provides enabling metal coatings that combine wear, erosion and corrosion resistant properties and open up new engineering design opportunities for severe service applications such as high pressure, abrasive, erosive and sour environments. With UNITECH, we were able to help them design this unique subsea connector and solve a specific end-user need."

Hardide Coatings has developed a range of tungsten carbide-based precision coatings which offer an unprecedented combination of ultra-hardness, toughness, low friction and chemical resistance when applied to components made from ferrous and nickel-based alloys. They can coat internal surfaces and complex shapes and offer significant technical and environmental advantages over traditional coating technologies such as hard chrome and HVOF.

The coating is in use by customers around the world in severe service applications in industries including oil and gas downhole and drilling tools, aerospace, valves, power generation, chemicals and food manufacturing.

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The switch from the over-complex hydraulic actuation system (right) to the Moss Electro-Mechanical option (left) has greatly reduced fire risk, improved performance and provided a compact solution.



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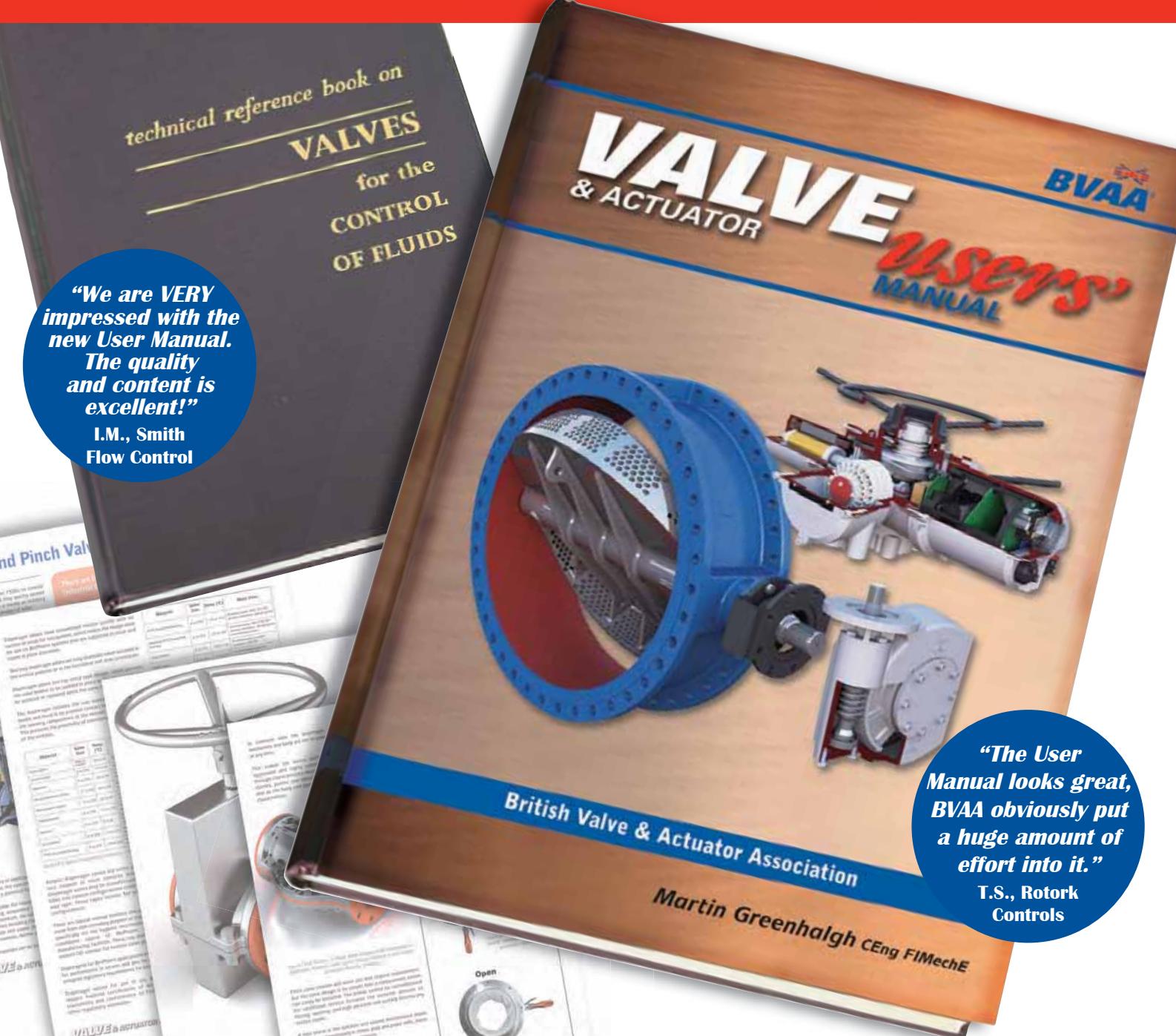
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work is always a possibility in this customer focussed industry.

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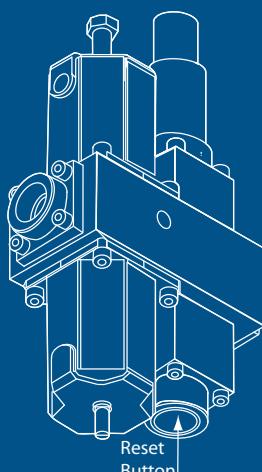
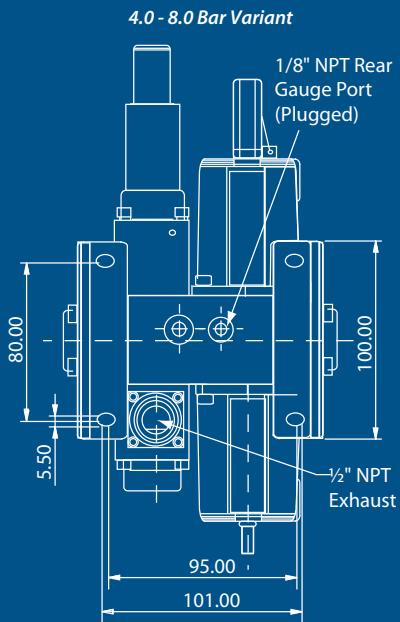
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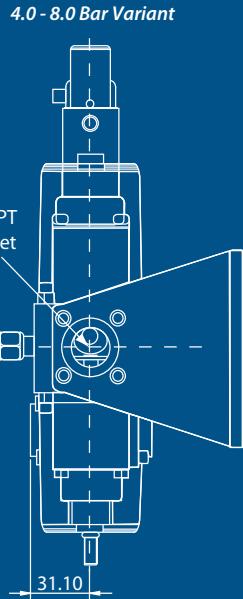
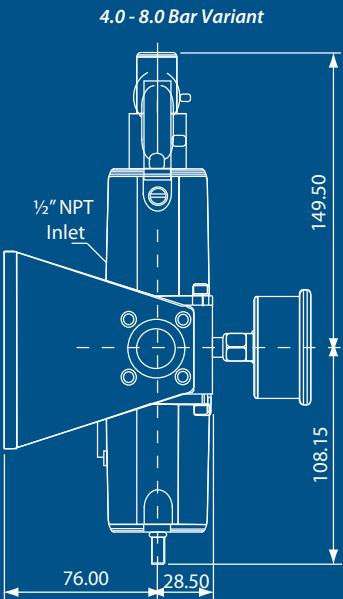


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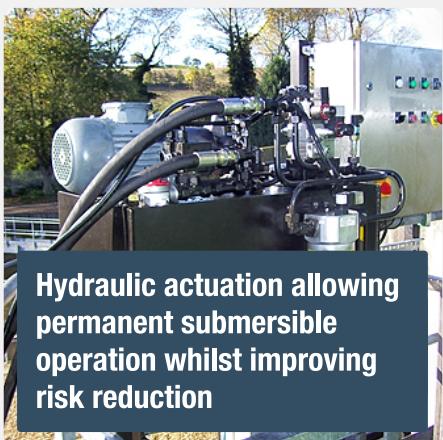
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