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in control

CORPORATE NEWS

Emerson digital valve controller helps Chinese chemical plant save \$40,000 in repairs and downtime

Fisher® FIELDVUE™ DVC6200f with linkage-less, non-contact position feedback and FOUNDATION™ fieldbus communication provides prompt alerts on potential valve problems.

After Emerson Process Management replaced existing valve positioners in the Shanghai Ethylene Cracker Complex (SECCO) with Fisher® FIELDVUE™ DVC6200f digital valve controllers, the SECCO plant gained better control, production efficiency, and uptime – and \$40,000 in annual maintenance savings.

SECCO is the largest integrated chemical facility in China. The complex includes a naphtha-fed ethylene cracker and ten downstream derivative plants with thousands of control valves of different brands, types and sizes. Temperature fluctuations in the process caused high variability in the end product which, combined with vibration of the pipeline, often led to damage and replacement of the positioners on these valves. After SECCO engineers and Fisher valve specialists from Emerson discussed ways to address this problem, SECCO decided to replace the facility's positioners with Emerson's Fisher FIELDVUE DVC6200f digital valve positioner.

The DVC6200f offers linkage-less, non-contact position feedback to reduce vibration-induced problems as well as diagnostics and Foundation™ fieldbus communication to promptly alert operators of potential valve problems. The instrument is easily mountable onto any valve, which was especially important in SECCO's case. In addition, achieving high process reliability and performance is possible because of the DVC6200f's diagnostic capability to predict problems before they occur, allowing operators to take pre-emptive action to minimize process variability or avoid a plant shutdown.

After installation, operations in the facility were enhanced with better stability and control. Production efficiency improved, while waste and rework were reduced. Valve performance is more reliable, and uptime has increased because of less frequent valve failure and scheduled maintenance. SECCO has saved an estimated \$40,000 annually by eliminating the frequent replacements of positioners as well as maintenance, labor and potential production loss.



Emerson opens Tianjin China service center

Emerson Process Management successfully opened Tianjin China service center at the Tianjin Xiqin Economic and Development Zone in the second half of 2012. There were about 180 guests including representatives from the Emerson Process Management management team and Local Business Partners.

The Emerson Tianjin Service Centre, comprising office space, service and assembly working cells, occupies 1,500 sqm and is situated close to Northern China customers at the Tianjin Xiqin Economic and Development Zone. The facility provides comprehensive services ranging from life cycle solutions for an entire plant, start-ups, emergency repairs, planned shutdown and repairs, instrument monitoring and training. On a daily and regular basis, the centre also supports customers in routine maintenance, emergencies, and product related issues 24 hours, seven days a week.



Emerson service centers represent local technical expertise capable of supporting all of the products within the Emerson Process Management portfolio and are strategically located close to as many customers as possible..

Brunei Shell Petroleum taps Emerson for wireless instrumentation training to advance technology adoption

Following successful field trials and proven performance globally, BSP is expanding the use of Smart Wireless technology to achieve engineering and installation cost savings



Emerson Process Management conducted a wireless instrumentation training event for Brunei Shell Petroleum (BSP) as a key next step to broaden and standardize the adoption of wireless automation technology within BSP. The training took place on 29th and 30th November at the Brunei Shell Asia Pacific Learning Hub in Seria. The comprehensive wireless instrumentation training developed the knowledge and skills of BSP engineers and design contractors, enabling them to design and implement the new technology while achieving significant cost and time savings compared to conventional wired instruments. The training followed a recent agreement by Emerson and their local business partner Aisha Automation with BSP for the supply of control systems and field instruments to BSP, leveraging the global Shell-Emerson Enterprise Framework Agreements (EFA).

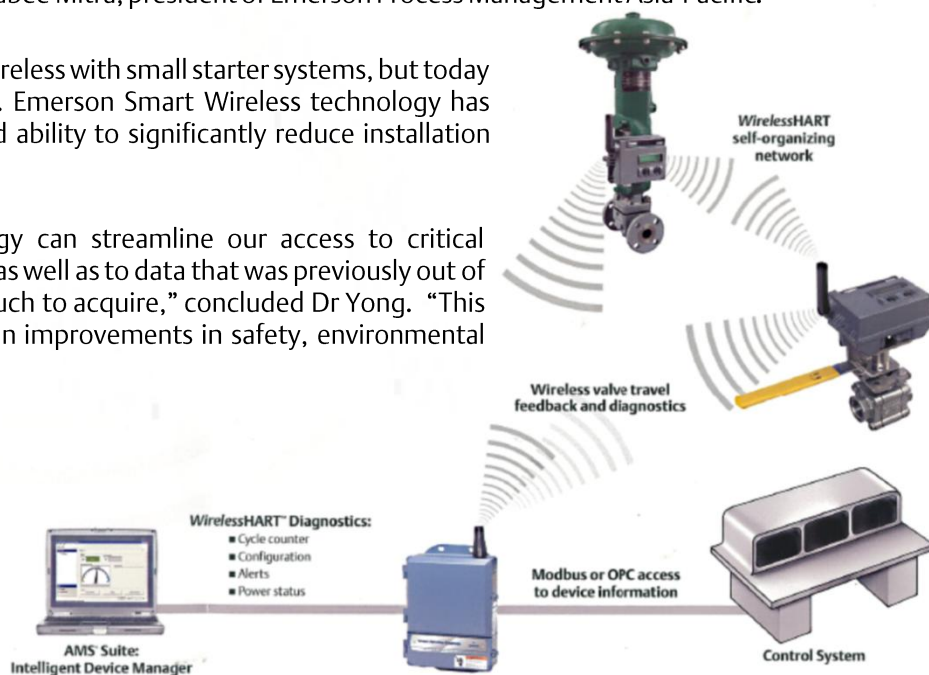
The training was part of Emerson's ongoing efforts to support the Brunei government's initiative to transfer technical knowledge and skills to the local engineering workforce. The training facilitated adoption of further new technologies by BSP and the local control and automation community, as well as enhanced local business development.

"We are stepping up wireless adoption following our successful trial installations and the broad global adoption of Emerson's Smart Wireless," commented Dr Yong Chin Hieng, Head of Control & Automation at BSP. "Our BSP wireless instrumentation trials began about five years ago with successful installations at the Brunei Shell Asia Pacific Learning Hub in Seria and at the Rasau Production Station.

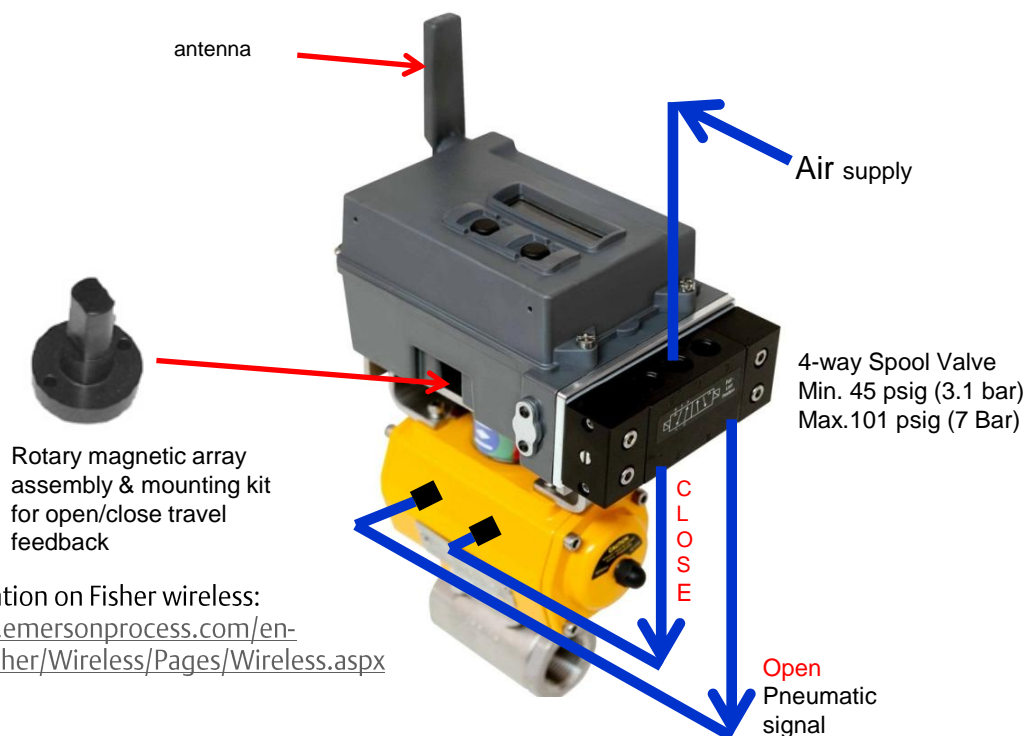
Currently, wireless instrumentations are being deployed for monitoring of onshore and offshore oil and gas wells." "Globally, more than one billion total hours of Smart Wireless operations have been clocked across 10,000 systems in more than 120 countries," reported Sabee Mitra, president of Emerson Process Management Asia-Pacific. "

Many companies began their use of wireless with small starter systems, but today are expanding to site-wide solutions. Emerson Smart Wireless technology has proven its reliability, cost savings and ability to significantly reduce installation time."

"We believe that wireless technology can streamline our access to critical process control and monitoring data, as well as to data that was previously out of reach physically or simply cost too much to acquire," concluded Dr Yong. "This wireless enabled data will help sustain improvements in safety, environmental and business performance."



Fisher® 4300 wireless position monitor on/ off control



More information on Fisher wireless:

<http://www2.emersonprocess.com/en-US/brands/fisher/Wireless/Pages/Wireless.aspx>

The latest 4300 wireless position monitor offering comes with the on/off control option.

A 5 port, 4-way spool valve is added as a control option to the 4300 position monitor. This pneumatic output stage is connected to an air supply pressure as shown in the diagram. It causes the pneumatic output to deliver a discrete (open/close) control action to a valve actuator. The confirmation of the control command is provided with valve position feedback using a non-contact, linkage-less feedback sensor and a magnetic array which is mounted onto the valve stem. It supports both single and double-acting actuators.

Some other features are as follows:

- Accepts Discrete Set Point control command from Host through the 1420 Smart Wireless gateway via Modbus RS485 or OPC.
- Output signal maximum span is 7 bar which suits most actuators.
- Able to perform Power Module Hot Swap in the field.
- Auto calibration using local user interface, no tools required.
- Able to toggle valve locally.
- Supports update rates of 1s, 2s, 4s, 8s, 16s, 32s, 1 to 60 minutes.
- Supports Report by Exception.
- Diagnostics includes valve Close/Open Stroke Time, Closed/Opened Dwell Time
- -20°C to 50°C operating range.
- 30 seconds actuation cycle time – period between control commands.
- Supports Snap-acting control.

The possible automation process areas are filling/feeding, mixing, bypassing and draining application. Safety of the operator when exposed to the hazardous element in the field may be another reason why customer wants to automate these valves. It reduces operator trips to the field to check the valve position status. Valves position status can now be logged and an audit record can be kept in the DCS historian.

This feature eliminates the need for cable laying and installation which may be prohibitive to pneumatic actuated valves. No more thinking about control room input/output points requirements and the type of solenoid to be used. All that is needed is air supply pressure and on/off control options can be implemented. The 4300 Wireless Position Monitor On/Off Control Options potentially enable customers to have substantial savings in installation cost when automating their plant.

Emerson strengthens presence in Thailand to serve Indo-China process automation market



Emerson Process Management, a global business of Emerson, has opened an Indo-China Regional Office in Bangkok to better serve growing industries in Cambodia, Laos, Myanmar, Thailand, and Vietnam.

The company plans to expand and consolidate engineering, services, sales and other functions for the region at its existing Bangkok facility, which Emerson will more than double in size. Employment at the location is also expected to double in the coming years.

“Indo-China is an important emerging market for Emerson,” said Sabee Mitra, president of Emerson Process Management Asia Pacific. “With the opening of the Myanmar economy, as well as abundant and untapped resources in Laos and

Bangkok expansion will enhance customer services in the region

Cambodia, we expect investment in infrastructure development to accelerate. Emerson is investing to provide a strong support base out of Thailand to meet the needs of these new developments, particularly in the areas of energy and infrastructure.”

Emerson Process Management first established direct full operations in Thailand in 2006. Since then, it has grown significantly by serving the oil and gas, chemical, petrochemical, power and bio-fuel industries.

“Emerson is committed to providing innovative solutions and world-class services to our customers anywhere in the world, said Tony Novak, general manager of Emerson Process Management Indo-China. “To do that, we are making the necessary investments to be closer to our customers. We are excited to contribute to the growth and development of Indo-China.”



Emerson sets up Fisher branch office in Nagasaki, Japan

Emerson has opened a new Fisher branch office in Nagasaki, the 7th sales office for Nippon Fisher. Besides Nagasaki, there are other Fisher offices in Tokyo (Shinagawa), Chiba, Osaka, Sakai, Nagoya and Himeji.



The Fisher Nagasaki office is set up specifically to serve top customers in and around the area. This will allow Fisher Business to foster a closer relationship with existing customers while growing and developing new ones.

Fisher Industry Sales up close and personal, intensifies customer interface across Asia

From September 2012 to March 2013, the Fisher Asia Pacific (AP) Industry Sales team planned and organized a series of power seminars for Asia. The focus of these seminars was to heighten the understanding of the impact of valve performance on plant efficiency.

The seminars offered customers insights into harnessing the full power of Fisher's solutions for severe or critical applications in a power plant. Participants, totalling about 200-300 in all were from Asia like India, Korea, Vietnam and Indonesia (upcoming).

In a world that operates at a quicker pace with higher demands, the concept of a product as a mere functional commodity or device is long outdated. The need for a more knowledge-based and sophisticated understanding of technology to milk the most of a product's capabilities is in. Customers who are interested in attending these sessions or to acquire enhanced knowledge about Fisher power solutions, please contact your area sales office. It would be certainly worth your time to do so.

Fisher brand makes presence known online!

Did you know...?

<http://www.linkedin.com/groups/Fisher-3941826>

<https://www.facebook.com/FisherValves>

<https://twitter.com/FisherValves>

<http://www.youtube.com/user/FisherControlValve>

<http://community.emerson.com/process/emerson-exchange/>

<http://www.ceasiamag.com/>

<http://www.upstreamonline.com/> (March 2013)



Fisher instrumentation team scores longest flight record in Red Bull Flugtag design competition



Codenamed the Amphibious Dragonfly, the design submitted by the Fisher Asia Pacific instrument team barely two days before the closing date clocked the longest flight distance of 18.2metres or about 60 feet in South East Asia !

The flugtag originated from Germany and is a design competition of home-made flying machines. As an international event, it was first held in Vienna in 1992 and since then, it has been hosted in different places every year. This was the first time ever that it was held at Singapore Sentosa.

Fisher Business celebrates “20 years with Emerson” worldwide

*The best of times and the strongest of relationships
are often forged and tested in fire.*

It's been two decades since Emerson Electric purchased several leading brand names in the process control industry. One of them was Fisher control valves. Together, the two entities weathered several global as well as in-country storms. It may not have been an easy ride but the organisations have gone on to become stronger than ever if the sterling sales performance up till 2012 is anything to go by. Fisher businesses across the world from the U.S., Latin America such as Mexico, Europe (France), Russia to the Asia Pacific like China, India, Singapore, Japan and Australia held site celebrations from October to November 2012.



Fisher lifecycle valve services key to realizing plant's potential and profitability



The management of production assets such as control valves can directly affect facility performance and profitability. Emerson's Fisher Services provides trusted expertise for reliability-centered control valve maintenance. Emerson has a network of owned and authorized service centers around the globe where experienced professionals and highly skilled technicians provide cost effective maintenance, valve reliability, and increased process availability through flexible, local service. Whether it is starting a process, planning maintenance or a turnaround, or using valve diagnostics to extend a plant's life cycle, Fisher services is ever ready nearby to lend a hand. Fisher valve services is the trusted partner for customers to fully realize the true potential of a plant's production assets.

The scope and depth of Fisher valve services are as follows:

Availability

- Quick ship parts — standard parts with expedited delivery.
- Quick ship assemblies — Valve assemblies with expedited delivery.
- Inventory management — management of current customer stock, stocking levels, and stock reordering.
- Installed base tools — User software to help plan for outages and repairs.



Reliability

- Certified repair — repairs performed to the requirements of the Fisher Certified Standard
- Local repair — repairs made at a customer site, Fisher Service Center, or authorized service provider
- Predictive diagnostics — ValveLink™ or Flowscanner™ equipment used to determine valve health
- Start-up/ commissioning — Labor performed during plants installation, startup, and operations
- Turnaround management — Outage coordination to manage a turnaround or outage through proven processes



Optimisation

- Service agreements — valve services performed for a specific period of time
- Maintenance training — certified training classes taught by Fisher trainers
- Technology upgrades — Pproduct upgrades including wireless implementation and product migration
- Performance optimization — system-wide process optimization including loop tuning and process validation
- Asset engineering — programs that help to maximize availability, reliability, and optimization

Emerson ups service standards for Asia Pacific, starts Fisher service authorisation program (FASP)

The increasing demand for plant and operational efficiency often calls for skilled knowledge and expertise. To enable customers to manage their plants and facilities better, Fisher Business started a step-up program – the Fisher Authorised Service Providers Program - in support and services for its service providers in 2008. Technical and maintenance staff from both direct Fisher service and authorised service providers undergo the same certification program to ensure service standardisation and consistency. Those who have been certified would have attained an acceptable level of accreditation for technical skills. For service providers, they would have to meet the criteria of resource and equipment commitment as well. Some of the components in the training cover repairs, turnaround projects, parts management, asset management, full service capability and a quality system.

To date, there are five Fisher Authorised Service Providers (FASP) in Malaysia, China, Australia (two) and Taiwan.



Fisher Valve Services successfully completes first plant turnaround in China

Fisher Valve Services has recently successfully completed its first turnaround for a petrochemical complex in Tianjin China in the last quarter of 2012. This is also the customer's first major plant shutdown managed by the Tianjin service team and a local business partner. The scope of the contract included the servicing of 1282 units of DVC and 142 units of Fisher control valves within 20 days.

Fisher turnaround management involves a carefully planned and detailing process that spans from engagement, preparation, training, budgeting, resources defining and allocation to execution and periodic reviews.



“Our process enables users to execute plans within budgets and schedules. The variability in a turnaround is removed through comprehensive project planning.”



The life cycles of my critical service valves are already pushed to the max. And now they want to extend the time between turnarounds?

YOU CAN DO THAT

FISHER

Maximize uptime and reduce risk with superior valve technology and engineering.

Keeping competitive doesn't just mean having the right valves. It's also about the right partnership. And Emerson delivers on both. Every Fisher® critical valve for general and severe service applications is expertly selected to meet your exact specifications. And our unmatched engineering and rigorous testing help ensure it will excel in even your most demanding applications. Fisher valves — it's how you turn a risky situation into stable, reliable operation. Go to Fisher.com/CriticalService



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