

# FISHER IN CONTROL

## CORPORATE NEWS

### Emerson opens new technical center, creating first fully integrated process control instrumentation facility in China

*New center advances availability of world-class automation technologies and practices for high infrastructure growth in China and Asia Pacific regions*

Emerson Process Management has opened a new process instrumentation technical center in Bao'an China as an expansion to meet increasing demand for world-class automation technology to support the region's rapidly growing infrastructure. The new technical center adds to Emerson's existing manufacturing facility to create the first fully integrated process control instrumentation facility in China.

The world-class ISO 9001:2000 certified manufacturing facility was established in 1994 in Bao'an, Shenzhen province. The new Bao'an Technical Center will undertake expanded high-technology capabilities, from research, evaluation, product design and development, and testing of process instrumentation. The new technical center will be set on par with other engineering centers of excellence in the United States and in Singapore. It is equipped to serve Emerson's growing China market and to meet increasing customer needs.



With the doubling of floor space from a 2,350 sqm facility in Chuang Ye 2nd Road to 5,200 sqm area, expansion to a newer, better and larger facility marks an important milestone in Emerson's growth strategy. It is a strong demonstration of Emerson's continuing investment in advanced state-of-the-art capabilities as part of its expanded presence in world markets and the Asia Pacific region.

The new center is also a testament to Emerson's strong confidence in Bao'an as a key manufacturing plant for Emerson's instrumentation products. These products are manufactured and supplied to Emerson factories worldwide and are used in various process control industries including chemical, petrochemical, oil and gas, refining, hydrocarbon, power, nuclear, food and beverage, and pharmaceuticals.



# Emerson acquires TopWorx

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

Emerson announced it has acquired TopWorx. Terms of the deal were not disclosed. TopWorx becomes part of Emerson Process Management, expanding Emerson's valve instrument offering and extending the reach of Emerson's PlantWeb® digital plant architecture to on/off valves and other instruments.

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

"TopWorx is a strong and growing business that is highly valued by its customers," said John Berra, president, Emerson Process Management.

"The acquisition gives us a quick and significant entry into the discrete instrumentation market, and is highly complementary to our existing valve, valve automation, and instrument businesses. TopWorx will extend the benefits of our PlantWeb® digital plant architecture, and enable us to provide a complete valve instrument portfolio, both wired and wireless."

"It is exciting to join what I consider the best and most progressive company in our industry," said Charlie Marcum, president of TopWorx. "Emerson Process Management's global reach and technology leadership will accelerate our growth and broaden our product offering, enabling us to serve customers even better than before."

*TopWorx valve control and position sensing solutions enable plants, platforms, and pipelines to manage and control operations more intelligently and efficiently under the most demanding and extreme conditions. Valvetop® discrete valve controllers attach to rotary and linear valves and actuators, support multiple bus protocols, and carry a variety of global certifications. GO® Switch leverless limit switches provide the ultimate reliability and durability in extremely hot, wet, cold, dirty, abusive, corrosive, and explosive environments.*

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**valvetop**  
Valve Control Solutions




**Valve Controllers and Switchboxes**  
Valvetop valve controllers and switchboxes enable automated on/off valves to communicate via FOUNDATION Fieldbus, Profibus, DeviceNet, and AS-Interface. They attach to all brands of rotary and linear valves and actuators, operate in the most demanding plant conditions, and carry a variety of global certifications.  
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**GO SWITCH**  
Position Sensing Solutions



**Leverless Limit Switches**  
GO Switch leverless limit switches provide reliable position sensing in the most demanding applications, including extremely hot, cold, wet, dirty, abusive, corrosive and explosive plant conditions. Using a unique hybrid technology that eliminates wear and tear, GO Switches last longer and outperform other sensors in the most extreme environments.  
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**networkx**  
Field Networking Solutions



**Field Networking Solutions**  
Networkx™ field networking solutions offer a complete portfolio of best-in-class components to connect valves and instruments to a variety of fieldbus protocols. In addition, Networkx Support Services help optimize your network by helping with bus network selection, design, implementation, and troubleshooting.  
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TOPWORX ACQUIRED BY EMERSON

EMERSON

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The Valvetop D-ESD

Automated Partial Stroke Testing of Emergency Shutdown Valves

SIL-3  
IEC 61508



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2

## Frost & Sullivan lauds Emerson as Growth Excellence Company of the Year in the process automation markets

*Comprehensive customer solutions and wireless innovation cited*



Based on its recent analysis of the automation and process control market, Frost & Sullivan recognizes Emerson Process Management, a business of Emerson (NYSE:EMR), with the 2008 Global Growth Excellence Company of the Year Award for its consistent growth, improved customer value, and ongoing commitment to technology innovation and new products.

Frost & Sullivan rates Emerson Process Management as the leading process control solution provider that has delivered year-over-year growth by consistently helping its customers achieve superior project and operational efficiencies through its extensive product portfolio and vertical industry expertise. Emerson has shown superior ability to drive shareholder value through strategic acquisitions and continuous growth in oil and gas, refining and petrochemical, power generation and pharmaceutical verticals.

**"In a market where customers are looking for process optimization, operational efficiency and global support, Emerson has achieved a market leadership position by deploying cutting edge technologies and outstanding customer support globally," says Frost & Sullivan Research Analyst Sivakali Prasad Dasari. "Emerson has been widely acknowledged by customers as a total solutions provider that delivers unprecedented value to its customers."**

The core competency of Emerson lies in its ability to offer superior products and innovative technology. Frost & Sullivan's Growth Excellence Matrix (GEM) positions Emerson ahead of its competition. The GEM methodology focuses on various factors that affect a company's growth potential, which include the following: the company's rate of growth compared to that of its industry; its global strategic perspective and team consensus on its growth strategy; synthesis of technology; the degree to which the company utilizes best practices, including best practices for marketing, management and leadership; its growth pipeline; and the sense of urgency the company shows in implementation.

**Frost & Sullivan Press Release:**

Emerson's continued focus on technology innovation has been instrumental in its success in expanding its PlantWeb® digital architecture to include wireless products with self-organizing networks. The company has delivered customer value with Smart Wireless field networks and has expanded its wireless offering to include complete plant and enterprise-wide wireless capabilities.

The company's unparalleled product portfolio consists of PlantWeb digital plant architecture with Fisher®, Rosemount®, Rosemount Analytical, Micro Motion®, Mobrey®, and Daniel® instrumentation, DeltaV™ and Ovation® digital systems, and AMS® Suite predictive maintenance software. These are combined with the expertise, dedication and passion of its people, enabling the company to provide solutions that help its customers to be best-in-class. Clients testify that Emerson products have longer mean time between failures (MTBF) and operate in difficult processing environments with higher performance characteristics that provide lower total cost of ownership for them.

Emerson, through its acquisitions, has both strengthened its services and enhanced total value for its customers. For instance, the acquisition of Decision Management International Corporation, Damcos Holdings AS, and The Automation Group have increased Emerson's position in various vertical industries and expanded its capabilities in providing technical and management services for the design, engineering and implementation of process automation systems.

"The customer centric approach of Emerson has enabled it to be a best-in-class major instrumentation vendor (MIV) and major automation contractor (MAC)," notes Sivakali Prasad Dasari. "This is demonstrated in the ability of the company to effortlessly execute large projects worldwide, on time and within budgets.

"Emerson has leveraged its technology leadership position to generate over 35 percent of its total 2007 revenues from new products, much above the industry average," says Prasad Dasari. "The company continues to focus on new products and technologies by investing \$397 million) in research and development in 2007, according to Emerson's annual report."

Overall, Emerson's business model of leveraging existing leadership in valves and field instrumentation has been the driving factor for its growth in the process automation domain. The company has consistently identified future trends ahead of the market and has invested in those technologies.

In recognition of its ability to handle global projects at multiple locations and translate them into comprehensive solutions that generate success for customers, Emerson is the winner of the 2008 Frost & Sullivan Growth Excellence Company of the Year Award in the process automation segment.

Each year Frost & Sullivan presents this Award to the company that has exhibited excellence in all areas of the market leadership process, including the identification of market challenges, drivers and restraints, as well as strategy development and methods of addressing the market dynamics.

Frost & Sullivan Best Practices Awards recognize companies in a variety of regional and global markets for demonstrating outstanding achievement and superior performance in areas such as leadership, technological innovation, customer service, and strategic product development.

### About Frost & Sullivan

Frost & Sullivan, the Growth Partnership Company, partners with clients to accelerate their growth. The company's TEAM Research, Growth Consulting and Growth Team Membership empower clients to create a growth-focused culture that generates, evaluates and implements effective growth strategies. Frost & Sullivan employs over 45 years of experience in partnering with Global 1000 companies, emerging businesses and the investment community from more than 30 offices on six continents. For more information about Frost & Sullivan's Growth Partnerships, visit <http://www.awards.frost.com>.

# Emerson's Fisher® control valves are first to be SIL 3 certified to IEC 61508 standards

*Certification simplifies safety standard compliance for customers*

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

The four control valve ranges have been certified by independent third party safety professionals EXIDA for on/off operation within a SIL 3 safety instrumented function. The valves can be packaged with the already successful SIL 3 certified Fisher FIELDVUE® DVC6000 SIS digital valve controller that enhances the safety function and monitors the health of the entire final control assembly, a core component of Emerson's smart SIS complete safety loop offering.

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

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

To learn more about Emerson's smart SIS, go to [www.EmersonProcess.com/SIS](http://www.EmersonProcess.com/SIS)



The Fisher Vee-ball is one of several ranges of valve from Emerson Process Management that are now SIL 3 certified to IEC 61508 standards.

# Emerson Global User Exchange 2008

From September 29<sup>th</sup> to October 3<sup>rd</sup>, Washington DC

Where **i**deas become solutions.



2008 Emerson Global Users Exchange

Registration is now open!

[Click here for registration information, conference fees and to register online.](#)

## The Chairman's Message

Preparations for the 2008 Emerson Exchange are in full swing. We are looking forward to a week filled with Workshops, Short Courses, Management Sessions, Technology Exhibits, Industry Forums, and Educational opportunities.

It promises to be bigger and better than ever, and we will have something for everyone in your business – from plant & operations managers to instrument & maintenance technicians to process & controls engineers and professionals. At the Emerson Exchange, you will have ready access to all the process improvement and optimization information you could hope for - in one place, at one time.

For managers, there is a special one-day Management Program that will help you **identify, introduce, and successfully implement** the **ideas that become solutions** for your company.

Registration is now open, and we have already seen a tremendous response. Make your reservations early to ensure a spot at the event you cannot afford to miss.

This year attendees will be able to take advantage of a wide range of exciting resources, including:

- More than 325 Workshops and Short Courses
- A Management Program featuring several industry & business leaders
- Relevant, contemporary topics in 9 Industry Forums
- Technology Exhibits with more square footage and solutions than ever before
- Exclusive use of the Smithsonian Air & Space Museum for our Networking Event
- Hosted in the nation's premier conference center.. The Gaylord National

“Early Bird” discounted registration runs through August 18th. Advance registration discounts continue until Sept 15<sup>th</sup>.

Take action now to reserve your place **where ideas become solutions...** the 2008 Emerson Exchange.

**Greg Stephens, Chairman**  
Emerson Global Users Exchange Board of Directors

Check out more of Emerson Global Users Exchange official website:

<http://www.emersonexchange.org/home/index.html>

## Hyrodome solves cavitation problem at plantation pipeline company

Plantation Pipeline experienced problems with a rotary control valve at one of its mainline take-off delivery terminals. Cavitation and vibration were battering the valve and its auxiliary operating equipment, as well as the immediate downstream piping. This created concern about the possibility of a significant gasoline release. The damaging cavitation had to be eliminated.

For pipeline ball valve applications where cavitation and noise are a concern, Fisher developed the V260 Hydrodome attenuator. This device, which is installed within the valve, utilizes a series of drilled holes to break up the fluid and stage the pressure drop. This technique avoids damaging cavitation and associated vibration.

The Fisher Severe Service Group worked with Plantation Pipeline personnel and within two days, shipped a Hydrodome attenuator to the site. Once the attenuator was received, technicians from a nearby Fisher Service Company removed the existing valve body, performed the minor machining needed to accept the new part, and delivered the valve back to the site the same day.

Once the valve with its newly installed Hydrodome attenuator was brought back online, the cavitation and vibration problems were eliminated. Because of this success, another Fisher V260 control valve in parallel service was retrofitted with a Hydrodome attenuator.



To find out more about Fisher Severe Service  
[CLICK HERE](#)



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EMERSON BUSINESSES

### Latest News

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June 17, 2008

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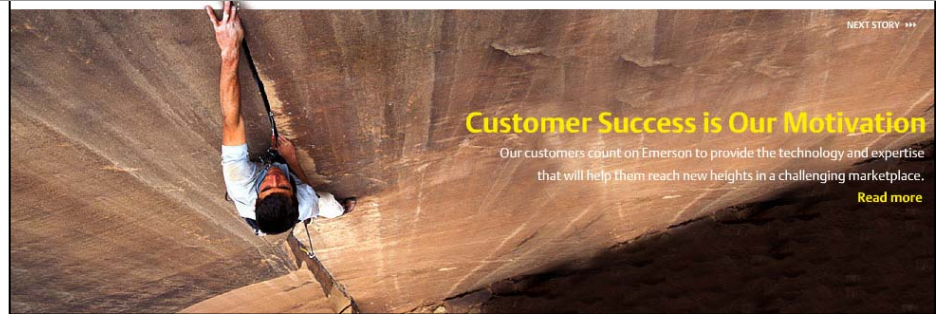
Emerson offers a vast array of products and services that bring technology and engineering together to create innovative solutions for the benefit of our customers.

### Investor Relations

Latest information on the company's financial performance, webcasts and presentations, and other topics of interest to investors.

### BusinessWeek.com

Read story, listen to interview on Emerson's innovation metrics.



## Customer Success is Our Motivation

Our customers count on Emerson to provide the technology and expertise that will help them reach new heights in a challenging marketplace.

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No matter how big or small, Emerson anticipates customers' needs and offers technology solutions that help them achieve success.

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Emerson offers technologies that help customers use energy more efficiently and protect the environment for future generations.

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