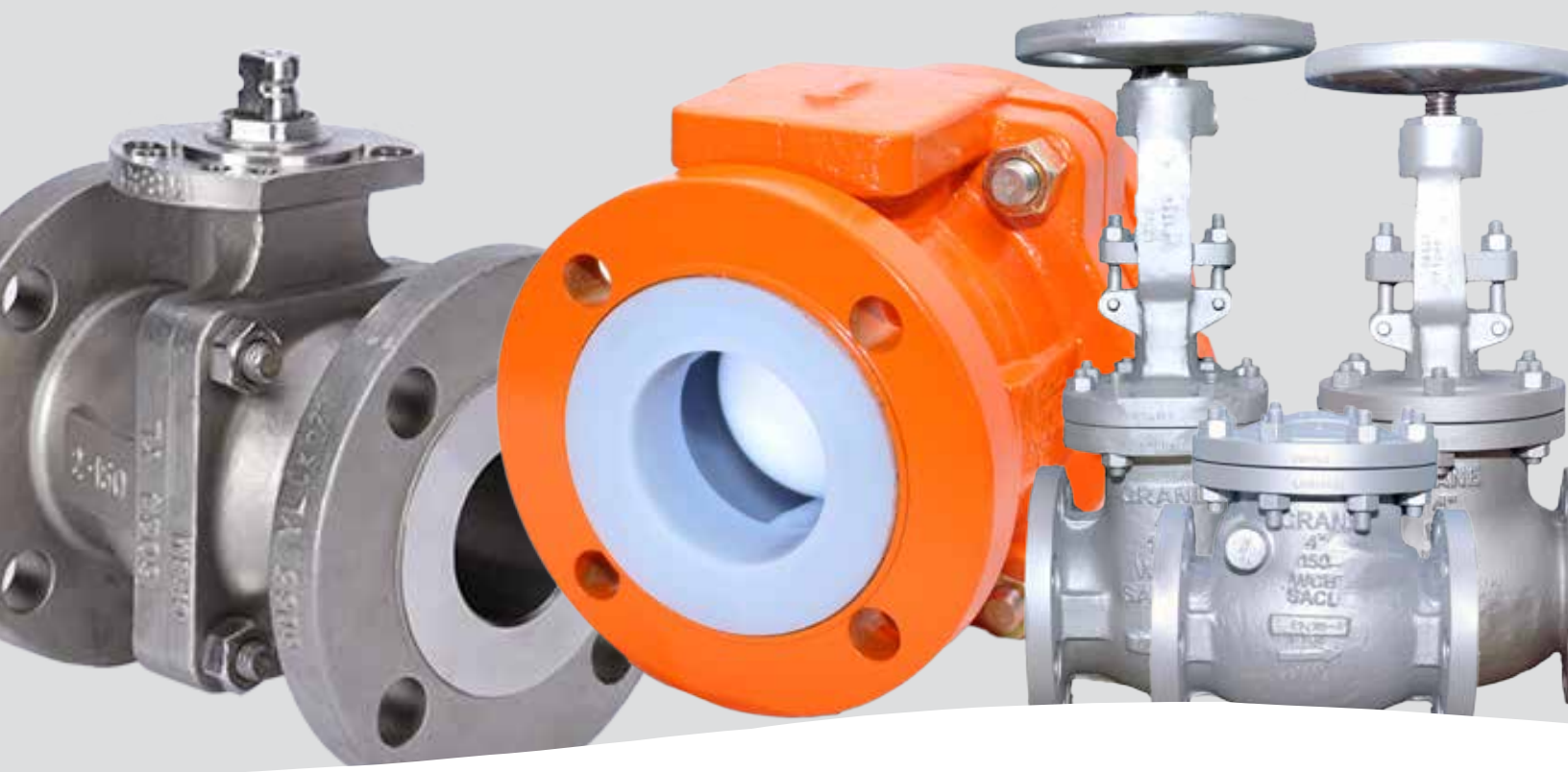


CRANE[®]

brands you trust.

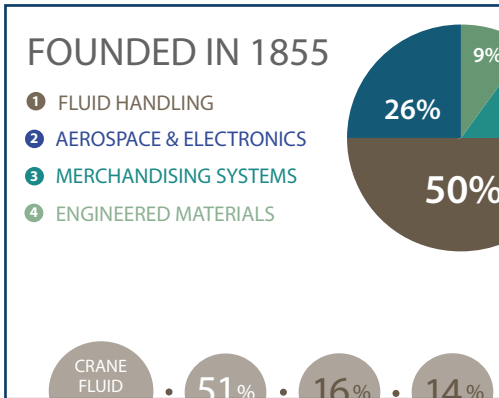


Valve World - Press Kit

CRANE[®]

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CONTENTS



2 · ABOUT



3 · NEW PRODUCTS

Crane ChemPharma & Energy Feature New Product at Valve World Expo, Düsseldorf

FOR IMMEDIATE RELEASE

DÜSSELDORF, Germany (Nov. 17, 2014) – Crane ChemPharma & Energy, a leading provider of solutions for fluid handling applications worldwide, are pleased to announce the launch of three new products at the 2014 Valve World Düsseldorf Conference & Expo (Hall 3, booth E51). The Xomox®XLC, Xomox®XLC, and Xomox®XLC will be on display for the first time, in addition to the numerous products that comprise Crane ChemPharma & Energy's product portfolio.

"This year's Valve World Conference in Düsseldorf provides us with the ideal platform for introduction to our customers in Europe and throughout the world," said Jürgen Sonderschäfer, Vice President of Crane ChemPharma & Energy. "More importantly, however, we are excited to use this opportunity to meet directly with our customers and better understand how we can continue to provide them with the solutions they need."

Xomox®XLC
Xomox®XLC fully-lined ball check valves offer economical solutions for the vast majority of applications. The unique flexible seat that enables Class A and AP5-598 sealing, a first for lined ball check valves, is protected from cross contamination and the effects of backflow, even in the horizontal position. Angled ribs guide the ball tightly into the seat. With metal-to-metal contact at the joint seal connection, the risk of dangerous external leaks is drastically reduced by the Xomox®XLC.

6 · PRESS RELEASE

Dependable by Design: Valve Safety from Ideation to Installation in the Chemical Process Industry
December 2, 11:50

Presented by: Alexander Rosenbusch, Product Sales Manager Ball Valves

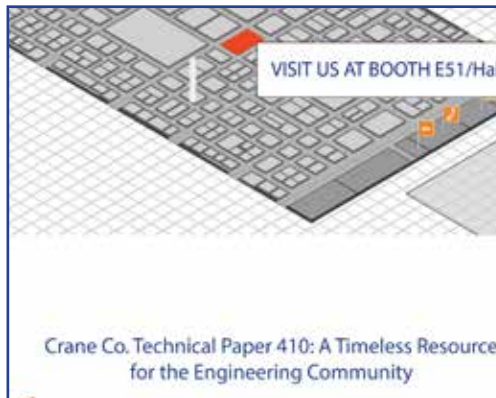
To simply state that operational safety is important to industrial manufacturing would be an understatement. Before profit, productivity and performance, safety has become a business imperative and those companies that don't yet prioritize safety above all else will find themselves at a distinct disadvantage.

Aside from the toll that chemical production can take on workers, communities and the environment, chemical-related disasters are extraordinarily detrimental to companies, impacting not only their bottom lines, but costing them invaluable reputation equity. Outages and downtime, higher operating costs, fines, penalties and litigation are the costly side effects of unsafe operating conditions. In the chemical process industry, safety is more than a hopeful goal, it is a business imperative.

With increasing demand for global chemicals, global chemical safety remains paramount. With fugitive emissions, fires and other potentially catastrophic events at the center of the collective focus, valve and other equipment providers must internalize a culture of safety throughout the value chain.

In this presentation, Alexander Rosenbusch addresses the most critical elements of functional safety, and demonstrates how a new soft-seated ball valve can deliver superior safety to the global chemical processing industry.

7 · WHITE PAPER PRESENTATION



8 · BOOTH

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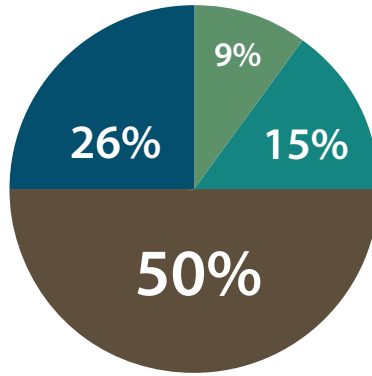
9 · MEDIA

ABOUT

Crane Co.

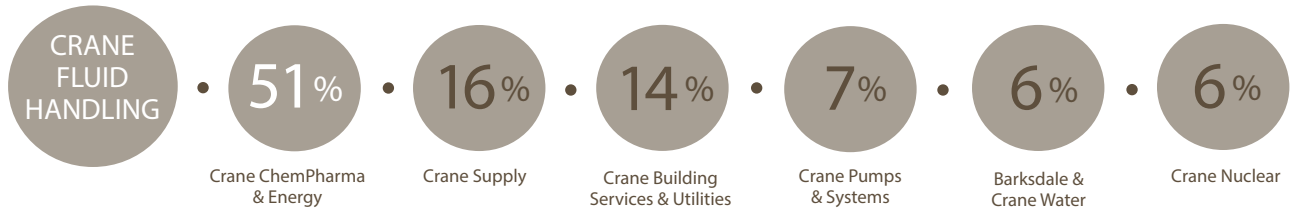
FOUNDED IN 1855

- 1 FLUID HANDLING
- 2 AEROSPACE & ELECTRONICS
- 3 MERCHANDISING SYSTEMS
- 4 ENGINEERED MATERIALS



- Fluid Handling \$1289 Million
- Aerospace & Electronics \$694 Million
- Merchandising Systems \$381 Million
- Engineered Materials \$232 Million

Fluid Handling

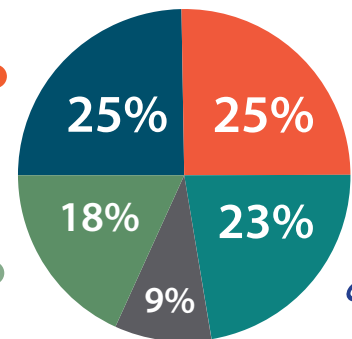


ChemPharma & Energy

TRUSTED BRANDS

CHEMPHARMA & ENERGY
 ALOYCO · CENTER LINE · COMPAC-NOZ
 CRANE · DEPA · DUO-CHEK · ELRO
 FLOWSEAL · JENKINS · KROMBACH
 NOZ-CHEK · PACIFIC · RESISTOFLEX
 REVO · SAUNDERS · STOCKHAM
 TRIANGLE · UNI-CHEK · WTA · XOMOX

- Energy
- Chemical / Petrochemical
- Building Services
- Municipal
- General Industrial



KEY MARKETS

NEW PRODUCT!

Xomox®FK Soft Seated Ball Valve

Key Features and Benefits

- 1 Three independent stem seals offer superior **fugitive emissions control**, certified to the following standards: EPA Method-21, ISO-15848, and TA-Luft according to VDI 2440.
- 2 **Self-relieving** seats permit relief of excess pressure to protect the integrity of the valve while maintaining bi-directional operation.
- 3 Patented SX ball-stem design provides high maximum stem torque capability and built-in side load resistance for **extended valve life** under severe conditions including thermal-cycling.
- 4 Dual material spiral wound body gasket, including a PTFE chemically inert inner seal and a secondary graphite outer seal, is supplied as standard.



Xomox® FK Ball Valve

NEW PRODUCT!

Xomox® XLC Ball Check Valve

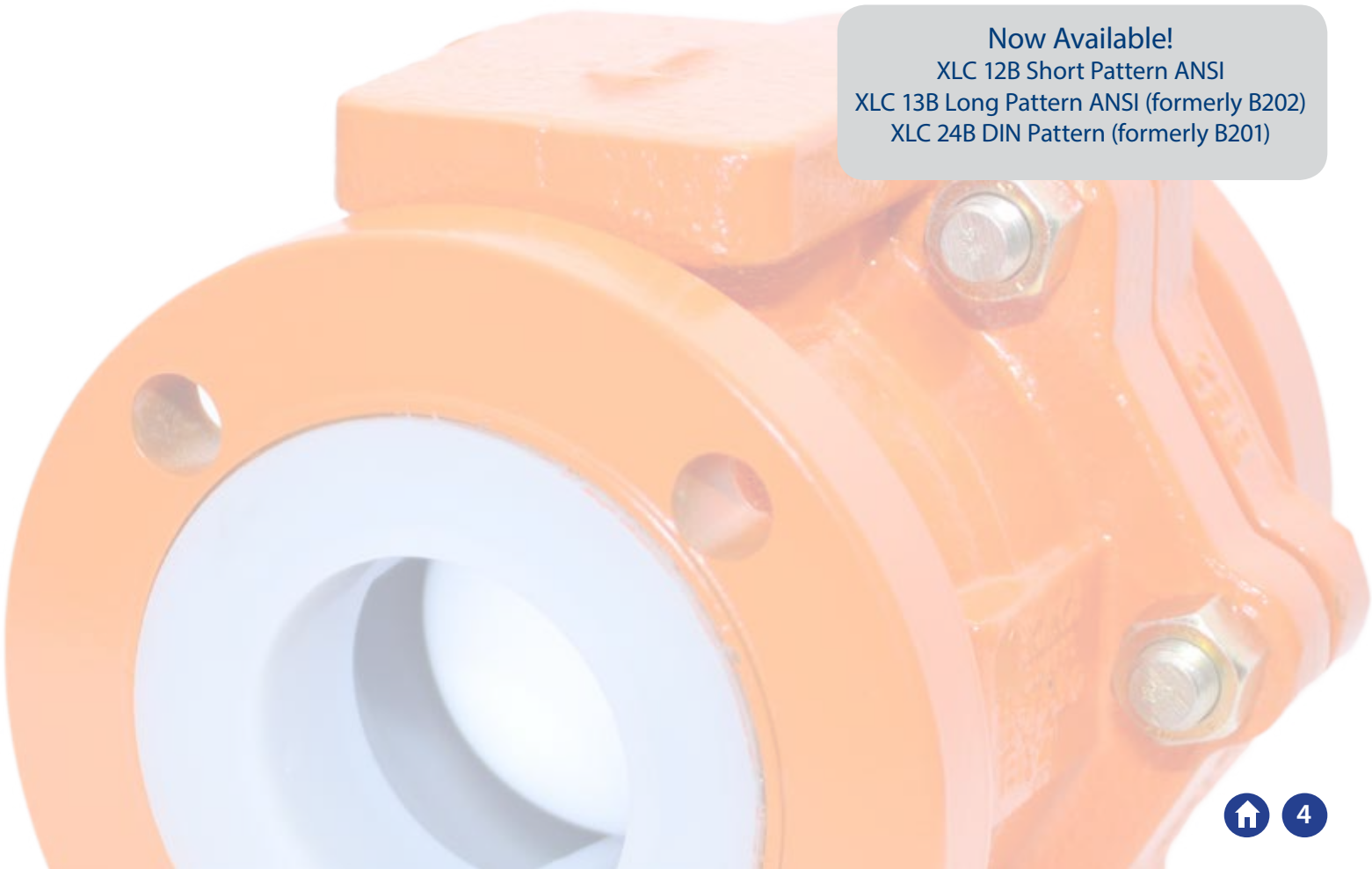
Key Features and Benefits

- 1 **Equipment and Process Protection:** Improve protection of your critical equipment and avoid process cross contamination by reducing backflow through the lined ball check valve. The XLC's unique flexible seat enables Class A and API-598 sealing, a first for lined ball check valves.

* Standard for test procedure: Shell test acc. to EN-12266-1,
Seat leakage test acc. to EN-12266-1, and Functional test acc. to EN-12266-2

- 2 **Low Cost Option for Horizontal Mounting:** While most horizontal mounted applications require a more expensive check valve, you can reduce both capital costs and inventory variation by standardizing a single ball check valve for both vertical or horizontal positions. Even in the horizontal position, the XLC's angled ribs guide the ball tightly into the seat, resulting in an excellent seal at pressures greater than 3 bar (>45 psi).
- 3 **Safety from External Leaks and Corrosion:** Avoid high maintenance and replacement costs that result from body joint leaks during extreme thermal cycling. The XLC's metal-to-metal contact at the joint seal and wide conical plastic connection dramatically reduce the risk of dangerous external leaks.

Now Available!
XLC 12B Short Pattern ANSI
XLC 13B Long Pattern ANSI (formerly B202)
XLC 24B DIN Pattern (formerly B201)



NEW PRODUCT!

Pacific®CSV Cast Steel Valves

Gate Valve: Key Features and Benefits

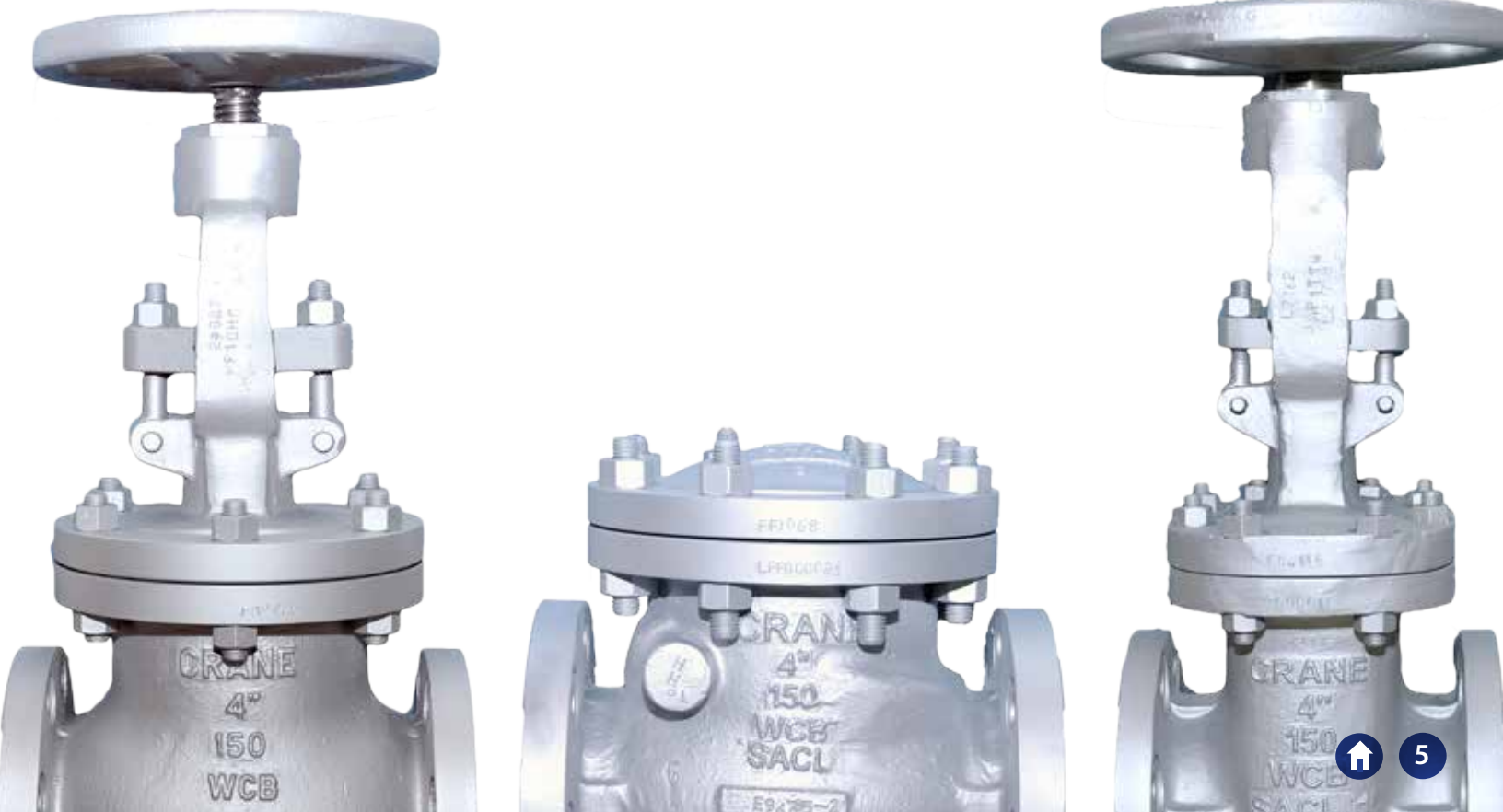
- 1 Fully-guided wedge ensures smooth operation in both horizontal and vertical orientations to deliver improved resistance to sticking.
- 2 Modular stuffing box facilitates changeover for low fugitive emissions and monitoring port options.
- 3 Live loading option extends fugitive emissions performance by eliminating the need for manual packing adjustment.

Globe Valve: Key Features and Benefits

- 1 Uniquely designed line contact between disc and seat results in lower seating torque, permitting faster set up.
- 2 The guided disc option facilitates seating during turbulent flow conditions.
- 3 Integral ISO 5210 mounting is available in larger sizes for ease of actuation.

Check Valve: Key Features and Benefits

- 1 Disc fastener is restrained by the bonnet to eliminate the risk of a displaced disc and prevent damage to downstream equipment.
- 2 Internal hung disc pin arrangement eliminates leak path from pressure boundary.
- 3 Modular design enables easy change to an optional external pin arrangement if counterweights are required.



Crane ChemPharma & Energy Feature New Products at Valve World Expo, Düsseldorf

FOR IMMEDIATE RELEASE

DÜSSELDORF, Germany (Nov. 17, 2014) – Crane ChemPharma & Energy, a leading provider of highly-engineered solutions for fluid handling applications worldwide, are pleased to announce the launch of three new products during the 2014 Valve World Düsseldorf Conference & Expo (Hall 3, booth E51). The Xomox®XLC, Xomox®FK and Pacific®CSV will be on display for the first time, in addition to the numerous products that comprise Crane's comprehensive valve portfolio.

"This year's Valve World Conference in Düsseldorf provides us with the ideal platform to introduce a diverse new solution set to our customers in Europe and throughout the world," said Jürgen Sonderschäfer, Vice President of Sales for Crane ChemPharma & Energy. "More importantly, however, we are excited to use this opportunity to communicate directly with our customers and better understand how we can continue to provide them with the best solutions to their needs."

Xomox®XLC

Xomox®XLC fully-lined ball check valves offer economical solutions for the vast majority of chemical applications with a unique flexible seat that enables Class A and API-598 sealing, a first for lined ball check valves. Critical equipment is protected from cross contamination and the effects of backflow, even in the horizontal position where the XLC's angled ribs guide the ball tightly into the seat. With metal-to-metal contact at the joint seal and wide conical plastic connection, the risk of dangerous external leaks is drastically reduced by the Xomox®XLC.

Xomox®FK

Engineered to address the inherent dangers of volatile chemical applications, the Xomox®FK adheres to the industry's most stringent standards and combats the harmful effects of temperature and pressure fluctuation. Three independent stem seals offer superior fugitive emissions control, and are certified to EPA Method-21, ISO-15848 and TA-Luft according to VDI 2440. Self-relieving seats relieve excess pressure to protect the integrity of the valve while maintaining bi-directional operation. The patented SX ball stem design provides high maximum stem torque capability and built-in side load resistance, which extends valve life under severe conditions including thermal cycling.

Pacific®CSV

Designed to exceed industry fugitive emissions standards with outputs as low as 20ppm, new Pacific®CSV cast steel gate, globe and check valves offer superior performance to the Oil & Gas, Power and Refining industries worldwide. The CSV gate valve's fully-guided wedge ensures smooth operation in both horizontal and vertical orientations to deliver improved resistance to sticking, while the globe valve features a uniquely-designed line contact between disc and seat for lower seating torque and faster set up. The CSV swing check disc fastener is restrained by the bonnet to eliminate the risk of a displaced disc and prevent damage to downstream equipment.

In addition to launching new products during the show, Crane will distribute copies of TP410 and deliver a presentation about their latest white paper, which focuses on functional safety in the chemical process industry.

To view the release online and access the full text, please visit our press room.

<http://www.cranecpe.com/chem-energy/about-us/press-room>

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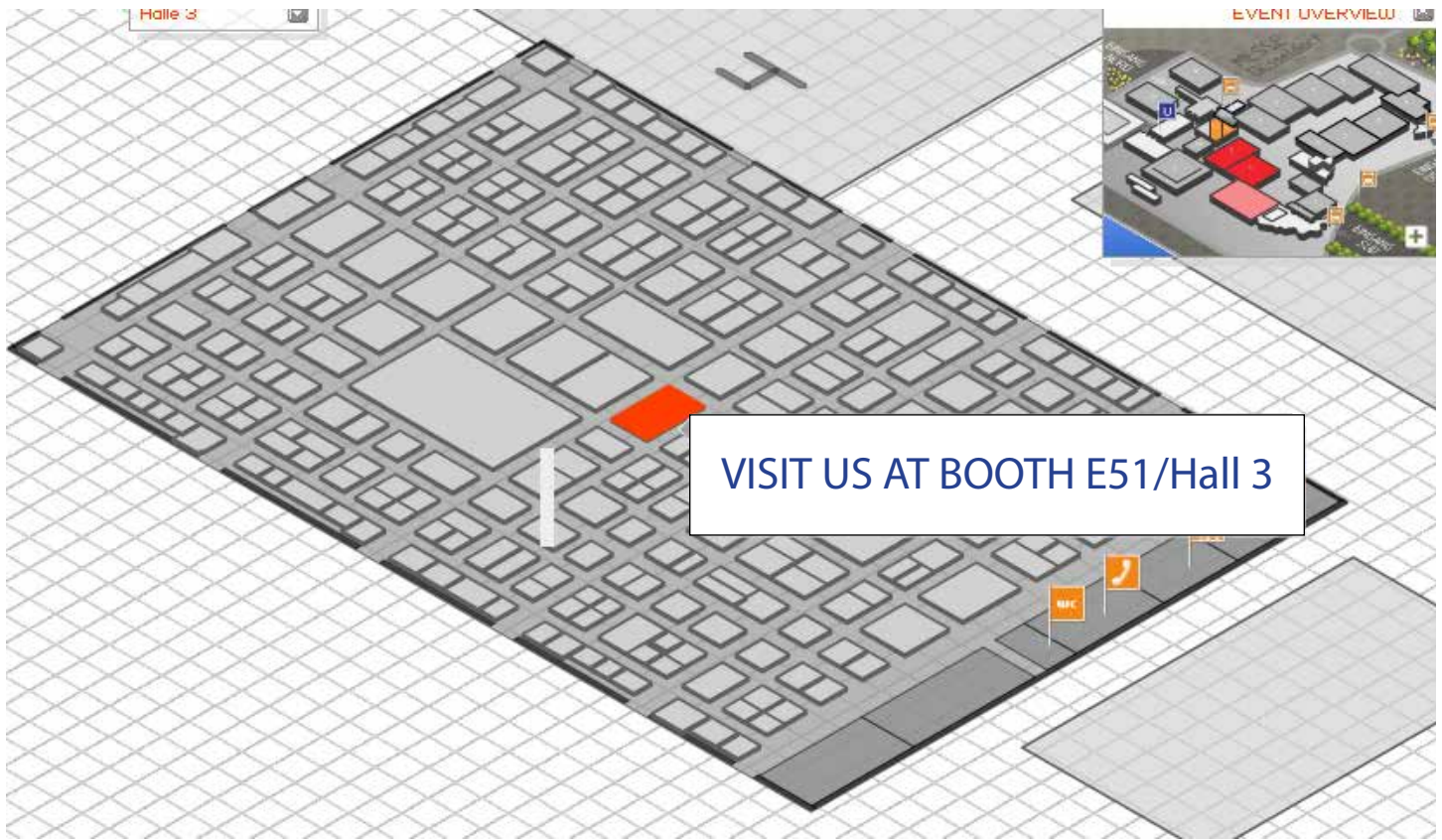
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Crane Co. Technical Paper 410: A Timeless Resource for the Engineering Community



Since its first publication in 1942, Crane's Technical Paper 410 has been an indispensable resource for engineers, designers and engineering students worldwide. Containing comprehensive calculations and information about the flow of fluids through valves, pipes and fittings, the guide is essential in determining the correct equipment for piping systems. For more than 70 years, TP410 has helped lay the foundation for thousands of buildings, products and systems throughout the world. Stop by our booth to pick up your copy during Valve World.

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