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CRANE presents its Comprehensive Line of Trusted Brands at MINExpo 2012

September 2012 – CRANE ChemPharma Flow Solutions®, a leading provider of highly engineered products for fluid handling applications worldwide, will showcase its comprehensive product portfolio for the mining sector during the MINExpo 2012 (September 24-26, Las Vegas, Nevada USA).

Saunders®XA

Saunders®XA's ultimate range of diaphragms for Saunders IDV valves offers significant performance advantages for handling chemically aggressive slurries most commonly found in mining, TiO_2 and phosphate processing, and similar applications.

Saunders®XA diaphragm technology was developed by the company's own team of polymer scientists. It relies on a new diaphragm material – a unique compound based on an ethylene propylene (EP) polymer – designed specifically for the handling of chemically aggressive slurries. The new diaphragm is 100% compatible with all existing IDV Saunders valves and is available for both new installations and for diaphragm replacements in existing Saunders valves.

Saunders®XA diaphragms feature advances in three important measures of quality in the handling of solids – enhanced flex life, resulting in reduced down time and improved productivity; 25% improvement in elastic recovery, resulting in better sealing performance and reduced emissions; and maximized rebound resilience, leading to improved erosion resistance. Saunders XA diaphragms retain all other desirable characteristics of its predecessor Saunders EP and butyl-based diaphragm lines, such as its high level of chemical resistance. The bottom line is that the diaphragm lasts longer in processing slurries and offers significantly improved handling performance for minerals and materials applications.

When asked for his view of what keeps Saunders' products at the forefront in serving the mining industry, Andrew Powell, vice president and general manager of Saunders, shared this observation: "We have made

a commitment to the constant improvement and development of our products to meet the current and evolving needs of the mining industry, and we have stayed true to that promise."

"Our customers, many of whom have been with us since PK Saunders (our founder) first developed the original industrial diaphragm valve over 75 years ago, continue to place their trust in Saunders valves today to provide exceptional performance and reliability in the most demanding applications. By developing new materials that are tailored to specific uses we can help our customers improve their own performance, and to target their particular changing needs."

Product details

Key features of Saunders® XA include:

- Maximized rebound resilience, leading to improved erosion resistance while maintaining the same high level of chemical resistance as previous Saunders EP and butyl based diaphragms.
- Enhanced flex life, resulting in reduced downtime and improved productivity, thereby contributing to a lower cost of ownership (lifetime costs).
- Leak Free* [in accordance with the standards MSS SP-88 and BS EN 12266-1]

All valves comply with the Pressure Equipment Directive (PED) 97/23/EC and conform to EN 13397 and MSS SP88. Saunders can supply valves in accordance with ATEX Directive 94/9/EC to Group II, Category 2, GD c T3-T6.

In compliance with Saunders' rigorous valve standards, all products in the XA range will provide full traceability of materials and are marked with material and manufacturing data for easy identification.

Krombach Metal Seated Ball Valves (MSBV)

Krombach Metal Seated Ball Valves (MSBV) are designed for specialty chemical and mining applications. Featuring a two-piece design with a flange connection, this durable product enhances our comprehensive valve portfolio that also includes the Xomox Soft Seated Ball Valves, among others. Krombach MSBV's ball and seat are machined to such precise tolerances that ball and seat lapping does not have to be performed individually for each valve – making both the ball and seat freely interchangeable (if equal in nominal size). Its trunnion mounted ball design offers a polygon stem-to-ball connection which reduces stress and ensures optimal torque transmission. An extra feature is its self-cleaning system which removes excess particles, minimizes leakage, and extends product life. Key characteristics include a fire-safe design body gasket and removable hand lever. To ensure that the

Krombach MSBV meets the considerably higher benchmark of leak protection required for Isolation service, it is typically tested for 60 minutes at 300 psig Nitrogen with a permissible leakage rate of class V.

Xomox® Lined Ball Valve (XLB)

The Xomox® Lined Ball Valve XLB allows users to manage the flow of corrosive chemicals through a lined apparatus that reduces ownership costs without compromising safety. Featuring a compact, patented design, it is suitable for installation in space-restricted areas. This design also promotes longer life performance and lowers torque, which translates into reduced actuation costs and savings associated with reducing space requirements. Its innovative stem sealing system provides safety and long term fugitive emission control under extreme conditions. The XLB also features a dynamic body joint design that allows the valve to retain its pressure boundary during thermal cycles. The enhanced safety provided by the XLB originates in this single-piece design featuring a second pivoting ball on the stem, which interfaces with a patented SX®-seal, allowing it to handle heavy side-load effects without releasing lateral forces into the stem packing.

WTA® Bellows Sealed Globe Valve

A new expansion of CRANE's product portfolio has resulted from the recent acquisition of W.T.Armatur GmbH. Its flagship product, the WTA® Bellows Sealed Globe Valve, provides the highest fugitive emission protection for use in chemical processing including Chlor-Alkali, Phosgene, and Fertilizer applications. One of only four manufacturers globally to claim this distinction, WTA® products meet the new Euro Chlor Standard, which defines demanding specifications for Bellows Sealed Globe Valves used for Chlor-Alkali applications. The valve's design features a full safety sealing system enabled by multiple walled bellows, a sealed two-part rising stem, and its stellite coated, conicallyshaped piston and seat.

Resistoflex® ATL PTFE Advanced Technology Liner.

Featuring an outer shell protection that delivers superior permeation control where temperatures reach as high as 450° F, the Resistoflex® ATL meets the most demanding temperature and pressure cycling requirements. Its PTFE liner offers a 60% reduction in permeation rate in aggressive chemical services at elevated temperatures. Other features include a standard configuration that includes a premium paint process, vent couplings, and PTFE vent extension for the ultimate in housing protection. This new product line is a cost-effective solution for handling corrosion in severe service applications.

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About Crane

Crane Co. is a diversified global manufacturer of engineered industrial products, traded on the New York Stock Exchange (NYSE: CR). One of its companies, Crane ChemPharma Flow Solutions, provides highly engineered products for fluid handling applications worldwide.

CRANE ChemPharma designs and manufactures a variety of high performance products including: sleeved plug valves, lined valves, high performance butterfly valves, bellows sealed globe valves, aseptic and industrial diaphragm valves, actuation, lined pipe, fittings and hoses, and air operated diaphragm and peristaltic pumps. Our trusted brands Saunders, XOMOX,WTA, KROMBACH, DEPA, ELRO, Revo, and Resistoflex offer our customers complete and innovative fluid handling solutions designed for the most demanding, corrosive, erosive, and high purity applications within mining,chemical, biotechnology and pharmaceutical industries.