

HELPING TO KEEP YOUR BUSINESS FLOWING

FLUID HANDLING

INTERNATIONAL

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Issue 6 Volume 4



10 tips for good piping practice

What to remember when planning for piping

When steel fails

Battling abrasion in chemical processing

Valve World Expo will draw the best and brightest of the valve and flow management industries to Düsseldorf in Germany on 29 November – 1 December. In this preview we give a small sample of all the things to see

Hurry along to Düsseldorf

AS-Schneider

Industrial valves specialist AS-Schneider recommends its compact VariAS-Block series for pressure measurement applications in chemical and oil and gas industries. The VariAS-Blocks are designed to replace conventional, multiple-valve installations and are close coupled to the process piping flange, for connecting process to instruments.

With their sophisticated and compact design, VariAS-Blocks offer numerous advantages over traditional process measurement installations. They combine

primary isolation (process side) and secondary isolation (instrumentation side) valves in one single valve body – saving weight and space and simplifying the installation. Potential leakage points are also reduced to a minimum in order to increase safety. Measuring instruments like pressure gauges or transmitters are usually directly mounted on the VariAS-Blocks. This compact, space-saving mounting minimises the disturbing influence of vibrations, reduces installation and maintenance costs, and ensures accurate measurement result.

The VariAS-Blocks are now also available with a metal seated ball valve design. This not only allows for reliable pressure measurements, but also protects people and the environment from dangerous and harmful process media. Even large temperature fluctuations, pressures up to 420 bar, high contamination levels, and aggressive process media are no problem for the metal seats. The new version is also fire safe tested and certified according to ISO 10497 and API 607. With these features, the metal seated VariAS-Blocks are particularly suitable for use under extreme conditions.

■ Visit AS-Schneider in Hall 3, booth F85

Badger Meter

Badger Meter will be showcasing its range of control valves at Valve World. The company's control valves are specifically

designed for controlling small to medium flow rates of liquid or vapour in pipe sizes from 1/4" to 2". They cover a Cv range from 0.0000018 to 54 in different inner valve sizes.

Theoretically, there are millions of possible combinations of valves that can be configured to suit a wide variety of applications or specific requirements. The choices range from process valves (standard bronze valves, flanged stainless steel, or other exotic material), to hygienic valves (barstock or cast, tube, or clamp ends), to special valves (three-way, angle, high-pressure, high-temperature, and cryogenic).

The valves can be made in most flange types and sizes, weld connections, female threads, or tube fittings. Although the standard material is stainless steel, many other materials are available for corrosive applications, including solid



Badger Meter's control valves are available in a wide variety of materials



AS-Schneider's metal seated VariAS-Blocks are especially suitable for use under extreme conditions

titanium and Tantalum. The valves are available with a wide variety of inner valves, many individually made by hand, standard and special bonnets, conventional and low-emission seals, pneumatic, electric or manual actuation, along with many accessories to meet almost any application requirement.

■ **Visit Badger Meter in Hall 5, booth M05**

Bürkert

Bürkert will showcase its new Ex product range for solenoid valves. All products in the range were developed and reviewed according to the newest regulations. The outcome is a modular coil and valve concept that fulfils all current requirements of the explosion protection standard EN 60079 and also offers additional customer benefits.

The combination of familiar Bürkert know-how, established electrical connection technology, and the current requirements of ATEX and IEC Ex were the challenges overcome by the new product range. The use of the new cable plug Type 2513 enables a versatile installation of the connection line. The cable plug with a moulded cable, certified after ATEX Cat. 3 GD EN 60079, withstands high pull-out forces and therefore offers a safe connection, with which a "fixed installation" all the way to the end device in the conduit or cable duct is not necessary.

The new explosion-proof junction box combines modern explosion protection with features that allow convenient installation with minimal



Elfab's WirelessHART rupture disc burst detection system

Elfab

Pressure relief safety expert Elfab will exhibit its latest showcase of products at Valve World 2016. Elfab is a primary provider of rupture discs, explosion panels, buckling pins, and associated detection systems. With over 80 years' experience, Elfab specialises in providing high-quality pressure relief products and services to its global customer base on the fastest lead times in the industry.

Elfab's technical specialists will be on the stand to share its expertise in relation to individual safety critical applications. Various products will be demonstrated, including the industry's first WirelessHART rupture disc burst detection system, eliminating the need for re-wiring and saving 50% of the cost and 90% of the time required to install a conventional wired system.

Manufacturing technically advanced goods suitable for use in a wide variety of industries and applications, Elfab will advise on the most appropriate solution to fulfil application needs. Enhancing process safety while eliminating ongoing hazards, Elfab will be showcasing its System Loc+

and Test-Tel tool on stand, highlighting advantageous benefits of how using these accessories in situ can save overall downtime and long-term investment.

Elfab invites all members and delegates to attend its process safety presentation to learn about the latest pressure relief technological advancements to date including burst detection and wireless technology.

■ **Visit Elfab in Hall 5, booth D30**

Festo

German valve maker Festo will be exhibiting its new VZQA product series, which offers modularity, flexibility, durability, ease of cleaning, and straightforward servicing. The pinch valve will be launched in two versions, an N/O version for media pressures from 0 to 4 bar and an N/C version for media pressures from 0 to 6 bar. A tubular elastomer pinch valve sleeve opens or shuts off the flow by decreasing or increasing operating pressure without any additional actuators and with no risk of blockage.

The VZQA valves come with different connection caps, housing materials, and sealing components for a variety of configuration options. This makes them useful in optimising pneumatic delivery and metering systems, powder coating systems as well as suction and compressed air control units. The free passage minimises flow resistance, continuously preventing the valve becoming blocked or clogged.

The sealing cartridge can be changed in just a few simple steps and without special tools. The high-performance valves can be cleaned quickly and easily by machine thanks to their full passage and design with very little dead space. Made from aluminium or stainless steel, the valves are suitable for the most challenging environments. Whether

abrasive, corrosive, highly viscous or neutral influences, the VZQA can withstand very high stresses in daily operation thanks to its special sealing cartridge.

■ **Visit Festo in Hall 5, booth 5K05**



Bürkert's explosion-proof junction box

cable requirements. The high-quality cast aluminium body with a resistant polyester resin coating withstands strong mechanical impact, a broad ambient temperature range from -40°C to 60°C and can be sealed by only one screw.

■ **Visit Bürkert in Hall 5, booth H20**



Festo's VZQA pinch valves can be actuated with low operating pressures

Goodwin International
British engineering company Goodwin International, with a track record of supply of some 35 years, is a global brand for the

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design, manufacture and supply of dual plate and axial flow check valves to all aspects of the hydrocarbon, energy and process industries. In the past 10 years, the company has enjoyed sales of over \$750 million (€680m).

Goodwin is introducing to the valve user market its brand new range of axial isolation and axial control valves. Founded on the same design and quality principles as its check valve products, the new isolation and control valve ranges have been developed to meet or exceed today's stringent end-user specifications. Designed around the same platform to ensure as much similarity and compatibility across components without any compromise on performance, both designs employ several innovative features for some of which Goodwin has international patents lodged.

The valve features a three-piece split body design which allows simpler manufacturing processes to be adopted, reducing defect rates and difficult weld repairs whilst also permitting a higher level of access for non-destructive examination techniques. The body also permits the use of forged or cast base material for the pressure envelope components, which can be adapted according to the end use application.

■ **Visit Goodwin International in Hall 4, booth B39**

Högfors

Högfors opened a new valve factory in 2009. By using the latest technologies, Högfors raised the production of butterfly valves to an entirely new level. The company's factory is among the world's most advanced, and it specialises in valve technologies used in the process industry and energy production. Högfors has been supplying valves for demanding

power plant projects since the 1980s, carrying out maintenance and renovation tasks, as well as project deliveries for new plants. Exports make up for more than 80 % of the company's turnover, with more than 50 destination countries.

Högfors's core competence serves the energy industry. All the company's products meet its own and customer specific requirements. Quality control covers the entire production from raw materials to final testing. Power plants and district heating valves are customised according to the detailed needs of Högfors' customers. The exceptional quality and durability of Högfors' valves is guaranteed throughout the products' life cycle.

■ **Visit Högfors in Hall 3, booth A09**

Inox Mecc

Inox Mecc is an Italian manufacturer of valve components for the oil and gas industry. For 50 years, the company has been producing stems from ½" to 70" and up to 8m in length. The company is able to also manufacture any other valve components according to customer specifications, such as bodies, closures, bonnets, discs, seats, and flanges up to maximum Ø of 900mm.

IM can manufacture its entire product range in any material, such as standard steels, Duplex, Super Duplex, titanium, nickel alloys, and Hastelloy. The complete traceability during production conforms to ISO and API certification. Additional services are available, including special coatings and surface treatments, welding, standard NDT, and 3.2 certifications.

Inox Mecc's facility area is equipped with high-tech machinery for lathing, lapping, drilling, threading, milling, cutting, broaching, and welding. The company aims to offer the highest quality standards,

from single items to full batches, from small to big dimensions, through an internal manufacturing process and qualified sub-suppliers with the latest equipment and knowledge, relying on highly qualified, flexible, and skilled staff.

Inox Mecc



Goodwin launches its brand new range of Axial Isolation and Axial Control Valves

quality system is certified according to UNI- EN-ISO 9001 and API Q1. In 2016, the company expects to be certified with the EU Export Compliance License and Quality, Environmental and Safety Integrated Management System according to UNI EN ISO 9001; OHSAS 8001; UNI EN ISO 14001.

■ **Visit Inox Mecc in Hall 5, booth K22**

Schroeder Valves

Schroeder Valves is a Germany-based global specialist in designing and manufacturing pump protection valves. For more than 60 years the company has been producing high quality valves for refineries and power plants, for the chemical industry and the offshore sector, and more recently for the production of renewable energies. Schroeder Valves' portfolio ranges from throttles and automatic recirculation valves to high-pressure control valves. Each product is unique, designed specifically for the respective pump and system data of the customer.

Schroeder exclusively uses high-quality materials, making its products also suitable for use under extreme conditions. This year Schroeder Valves expanded its portfolio by a serial version of its automatic recirculation valve. The range, named SmartLine, is available in five bypass flow-rate steps (five Cv-value stages) for each frame size. All of them are low pressure valves, suitable for



A Högfors valve in DN1400 size

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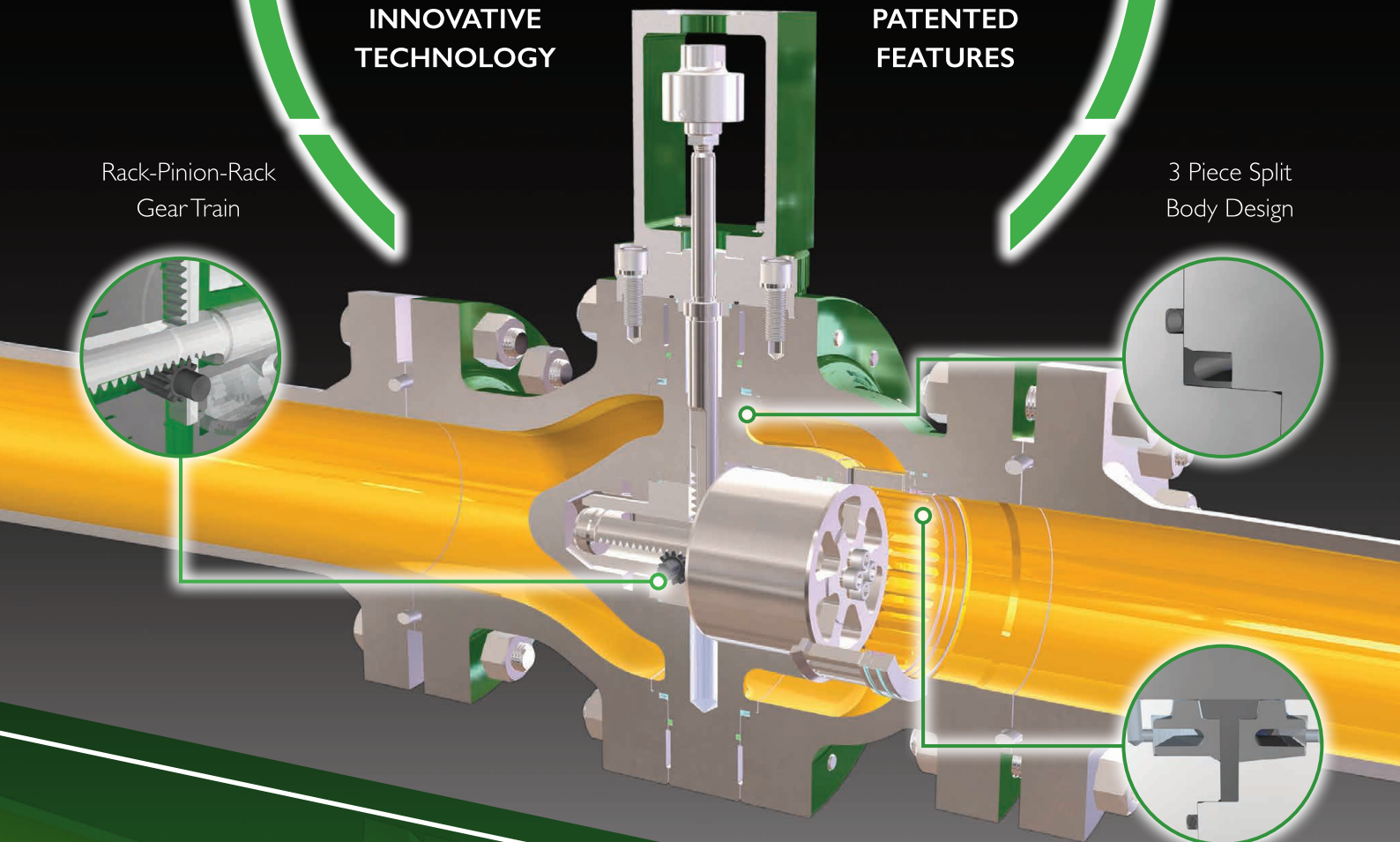
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