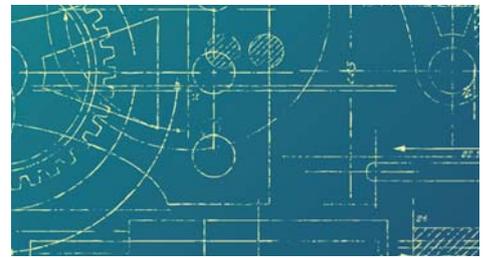


# INNOVATIONS & SOLUTIONS



## Protect your employees, equipment and the environment

To complete the strongest safety valve portfolio in the market, Alfa Laval has introduced a true spring-loaded safety valve: The Alfa Laval Safety Valve.

This new valve is designed to protect both equipment and people. In a potentially dangerous situation it will open at a predetermined set pressure. The compressed spring force, keeping the valve closed, is forced open when pressure builds up at the inlet of the safety valve. As these forces balance out, the valve will discharge and decrease pressure, ultimately reclosing as the system returns to normal.

These safety valves protect against overpressure in tanks and pipelines caused by e.g. overfilling or fermentation processes. They also protect against implosion due to e.g. vacuum caused by cold rinsing after hot cleaning or blocking of gas supply during emptying.

The Alfa Laval Safety Valve can be combined with the Alfa Laval SB Anti Vacuum House into a combined safety valve, protecting against both vacuum and overpressure in one hygienic valve solution with a single tank connection.



## A+R sealing systems for increased efficiency



German manufacturer A+R has made it its mission to provide a versatile range of special sealing systems using an intelligent constructive modular system based on the advanced 2-piece, PTFE-sealed standard ball valve. These systems consist of, among other things, combinations of PTFE and graphite seals to both provide fire-safe properties and to avoid contaminating the product with carbon. This plays a decisive role in the production of, for example, HPPO hydrogen peroxides. To this end, several thousand ball valves have been supplied for projects in Southeast Asia and Saudi Arabia.

This same intelligent modular system is used for the metal ball-sealing systems. Wherever the temperature/pressure exceeds the level of PTFE-resistance or the input material for PTFE is incompatible, smart solutions are needed. This is also increasingly true for substances such as styrene, butadiene, phenol, polyol and the post-combustion of materials with toxic content to name just a few of the many fields of application. The demand for metal-seated seals for ball valves is thus growing exponentially.

## Hayward flow expands NVA series

Hayward Flow Control has expanded its NVA Series Needles Valves and now includes CPVC and PVDF materials. With these additional materials to the line, the NVA Series increases the range of applications and services where they can be used, be it higher temperatures or hi-purity. The NVA Series features an integrated stem with a PTFE seat for superior control, purity and performance. The valve sizes range from 1/4" (DN8) to 1/2" (DN10). FPM Seals are standard. All valves carry a pressure rating of 150psi / 10 bar Non-Shock at 70°F. Maximum service temperature for CPVC valves is 190°F / 88°C and for PVDF valves, 280°F / 138°C.

The NVA Series is a patent pending design with all thermoplastic construction that stands up to the most demanding of applications. They are ideally suited for the fine regulation of flow that is required in instrumentation and laboratory work. Typical applications or installations include, but are not limited to, water and wastewater treatment, chemical processing, pharmaceutical, hi-purity systems, food & beverage, aquatic and animal life support systems.



## Introducing the Dual Free Flow Valves



The Dual Free Flow Valves were manufactured in Dual's factory in Benoni, South Africa. These valves took approximately 15 weeks to manufacture from start to finish. These valves will be used for a slurry application on Capstone (Pinto Valley Copper mine) in America. The steps leading up to the day of upliftment had to be precise, from organizing the 40 ft open-top container, due to the size of the valves, down to the expected time of arrival at the Durban Harbour (South Africa) and everything in between. On the day of upliftment, a sense of excitement travelled through the factory for all involved with the project. The container will be at sea for 6 more Weeks before reaching its destination in the USA and hopefully reach the client before year end. The valve specification includes: fabricated carbon steel body, rubber-lined, urethane ball, Roc-Tuff seat, pressure rating of 310 psi, and flanged and drilled in compliance with ANSI300.

## Molex Ultra-Fit™ from RS Components



RS Components, the trading brand of Electrocomponents plc, has introduced Molex Ultra-Fit™ power connectors, bringing the reliable, easy-mating advantages and space-saving design of the Fit family into wire-to-board applications up to 14A for equipment such as white goods, automotive systems, industrial automation, medical technology, lighting and telecom. The new 3.5mm-pitch Ultra-Fit™ connectors join the Fit portfolio alongside the Mega-Fit™ 5.7mm-pitch series rated up to 23A per circuit, the 4.2mm/13A Mini-Fit™, and the 3mm/5A Micro-Fit. Featuring the Fit-family split-box terminal design with six points of contact, Ultra-Fit connectors have low insertion force allowing fast, fatigue-free productivity, and deliver long-term reliability in the field. With multiple features to ensure correct mating, and terminal position assurance (TPA) to prevent back-out, they have a

17% smaller footprint than competing, similarly-rated connectors. Multiple mechanical keying options allow several sets of connectors to be used in the same assembly without fear of cross insertion. There are also colour-coding options that provide clear guidance for assembly during production or maintenance in the field. The positive-lock housing confirms mating with an audible click and prevents accidental disengagement. In addition, anti-snag design prevents wires becoming trapped and damaging the latch.

## Phoenix Contact releases new wire conduit

Phoenix Contact has released a wire conduit product family as an expansion of its cable management products. The line includes slotted, plastic, and stainless steel protective hoses, as well as various connectors and mounting and security accessories, with ratings of up to IP69K. Managing cables should never be time consuming and expensive if appropriate mounting devices and the correct tooling is used. The company offers a comprehensive range of cable management products. The product range of Phoenix Contact spans from the extensive range of cable routing and protection systems, wire way, wire bundling, tooling and mounting products for every application. The hoses and connections are available in either a Panzer-Gewinde (Pg) or metric (M) screw thread. Several products in the line carry a UL 94V0 rating. These include the plastic protective hoses, corrugated pipe adapters, and the plastic screw connections, including the plastic strain relief screw connections.



## JVS launches engine brake for Isuzu 6UZ1 Engine



Jacobs Vehicle Systems®, the global manufacturer of diesel and natural gas engine retarding systems and valve actuation mechanisms has launched a compression release engine retarder for the Isuzu 6UZ1 heavy duty engine. The collaborative effort between Isuzu's and Jacobs' engineers resulted in the development of a powerful and reliable compression release brake which enhanced the performance of Isuzu's engine while reducing the truck's total cost of ownership. The Isuzu 6UZ1 engine with the Jacobs Engine Brake® is now available in Japan on the GIGA series of heavy duty trucks that employs Isuzu's next generation D-CORE diesel engines. "This launch is the result of a successful partnership between Isuzu Motors and Jacobs Vehicle Systems. We are proud to design and manufacture the engine retarder for the 9.8L engine that now equips the new GIGA heavy duty trucks from Isuzu," said Sergio Sgarbi, president of Jacobs Vehicle Systems.



Why do so many  
"GLOBAL CUSTOMERS"  
RELY on  
AFCON valve products??



- AFCON R&D engineering staff have many years of experience in valve design & application. They utilise the latest CAD programs in not only developments for our own product range, but also in meeting customers unique application requirements
- AFCON is CERTIFIED to ALL major requirements for Valve applications
- AFCON production processes are all 'in house' to ensure optimal Quality Control at each stage in the manufacture
  - Our own casting furnaces
  - Our own metal laboratory and testing of metals for client reports
  - Our own machine shop to maintain product machining precision
  - Our own cleaning line for preparation in powder coating
  - Our own powder coating & baking line in preference to "wet spray" finishes ensuring a more durable service in adverse environments
  - Our own skilled assembly staff who are fully trained in all aspects to maintain our credo that 'Quality IS Our Business'
  - Our own purpose built high pressure test cells for a 100% compliance test of finished products
- AFCON QA staff are the 'police force' of the plant, ensuring full compliance to design/performance criteria as per QA certification
- AFCON warehousing & dispatch staff are fully aware of the requirements for shipping goods internationally. Special packaging crates and materials have been developed to ensure that goods arrive at their destination as expected
- AFCON Management staff don't spend their time sitting behind desks. They are regular visitors to clients around the world to ensure that they keep abreast of CUSTOMER NEEDS above all else.

**Are you a valve user?** If so please consider what AFCON has to offer. Look at our web site or catalogue. Better still why not contact our extremely capable International Sales Department, who are fluent English speakers & skilled in International trade

AFCON (NingJin) YAHUA INDUSTRIES Co., Ltd.

Factory Headquarters: #2, 314 Provincial Road, NingJin Development Zone, NingJin County, Shandong Province, 253400, China

+86 534 5425056 +86 534 5218336 +86 18615342318

✉ carol@afconyahua.com 🌐 www.afconyahua.com