



ASCO Next Generation Solenoid Valve

ASCO Red Hat Next Generation Solenoid Valves

ASCO introduces Red Hat Next Generation, a new series of solenoid valves that use electronic technology to better manage power consumption, reducing operating costs. These energy-efficient valves draw only 2 watts of power, as compared to conventional solenoids that draw as high as 17 watts. This savings of power usage lowers total cost of ownership up to 14% over the installed life of the valve. Three major advantages of these new type valves are 1) increased performance capability 2) lower power usage and 3) modular design. This combination provides customers energy efficient, off-the-shelf high-value solutions at an economical price allowing for a more versatile use of inventory and quicker deliveries. RHFS Flow Solutions has made a significant commitment to maintaining higher levels of ASCO solenoid valve inventory. "Our goal is to shorten lead times and improve customer service. We're happy to report that we're already seeing faster delivery to our customers" said Joe Nassar, VP

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PALL Marksman - More Surface Area Yields Higher Performance Filtration



PALL Marksman elements provides higher particle removal efficiencies and longer service life.

Pall, a leader in filtration and separations technology, has developed a new range of filter elements that combine the performance advantages of cartridge filters with the ease of use of bag filter systems. MARKSMAN series elements offer a unique combination of benefits. Filtration customers no longer have to choose between cartridges and bag technology. Marksman elements are available in three configurations. Marksman Poly-Fine II filters are constructed of ultra-thin, high performance melt-blown media. Marksman

Poly-Fine XLD series filters are extended life depth filters with a unique pleated depth configurations. Thicker multi-layered pleat pack combines the best of pleated and depth technologies. Marksman Nexis A filters deliver all of the advantages of Pall's "Cold" technology. The unique Co-located Large Diameter fiber construction produce a fiber matrix with excellent structural integrity assuring the media does not shift. The proprietary manufacturing process produces a melt blown depth filter with the most precise removal efficiencies, the greatest consistency and exceptional void volume for high contaminant hold-

ing capacity. Call 1.925.443.9800 to schedule a visit with a knowledgeable RHFS field filtration expert.



THE RHFS PULSE is published quarterly to keep you informed on fluid flow innovations.
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TECHNOTES

FILTRATION CONTROL

To remove suspended solids for many processes the pre-coat or diatomaceous earth (DE) filters are used to remove any suspended solids. There are many processes that require a physical separation of one or more of the components.

It is important to know when any separation process has failed or is not operating efficiently. This results in the high concentrations of suspended solids. There needs to be some type of monitor to detect filter failure to minimize downstream contamination.

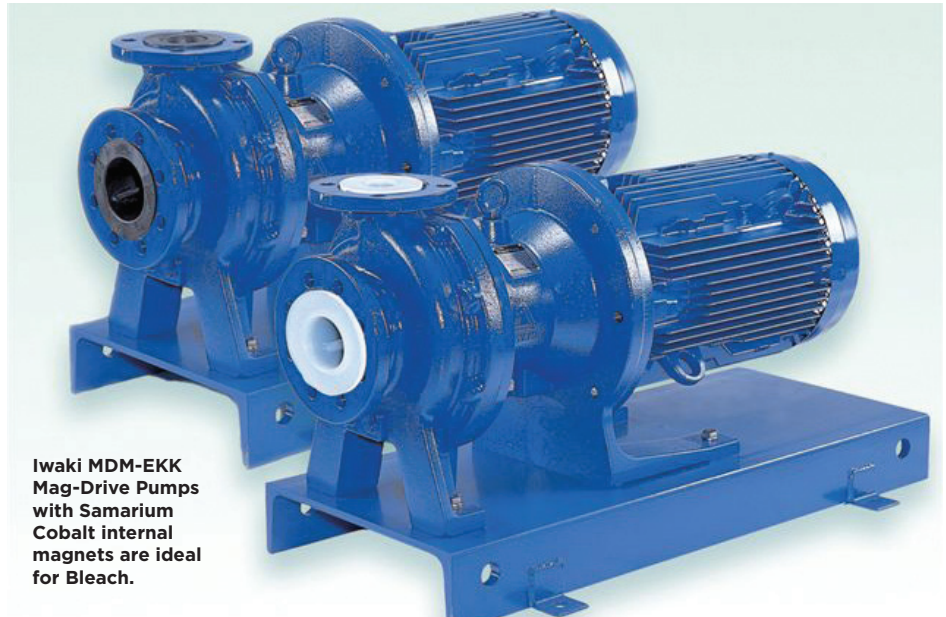
A continuous filter separates solids by entrapping the suspended material in the filter medium while allowing the liquid portion to pass. The build-up of the trapped solids will increase the pressure drop across the filter.

The Mettler Ingold Forward Scatter Model 8300/8200 is designed to measure levels of turbidity before and after the filter. If very low levels are expected or required (0-500 ppm) it is best to measure the filter product with the Mettler Ingold Forward Scatter Model 8300FS/8400. Forward scatter is best for extreme low levels of turbidity.

Turbidimeters have also been used to monitor and control the DE addition and dosing. By monitoring the addition we can assure the proper amount of DE is applied to the filter.

This is done by using the analyzer to detect when the filtered product is below the required level. The dual benefit is maximum on-line time and minimum DE usage.

Call 1.925.443.9800 for more information.



Iwaki MDM-EKK Mag-Drive Pumps with Samarium Cobalt internal magnets are ideal for Bleach.

RHFS Helps Solve NaOH Vapor Attack Problems in Bleach Applications

Chlor-Alkali customers have long been challenged to find a reliable pump for their bleach processing & loading systems. Periodic pump failures are commonplace. After being told they "ran the pump dry again" by a pump supplier, a frustrated customer installed preventative dry-run monitors. When another failure occurred a few months later, they knew it must be something else. That's when they gave RHFS a call. After careful inspection and some sleuthing, it was determined that the internal-magnet materials of construction were incompatible with solution chemistry. Sodium Hypochlorite vapors were penetrating the Teflon encapsulating

the magnet and causing severe swelling of the Neodymium magnet. The swelling shut-down fluid recirculation paths and caused the pump to overheat (easily mistaken for dry-run condition). Our RHFS sales rep recommended an Iwaki MDM-EKK pump. MDM utilizes a Samarium Cobalt internal magnet, which is compatible with the Sodium Hypochlorite vapors. These MDM pumps are now in service and running great. Our rep is now looking to spec more Iwaki pumps for the customers' Brine, Caustic, HCL, and De-ionized Water pump applications. Let the RHFS team help solve your pump challenges. Call us at 1.800.848.1141.

RHFS **QUALITY**

Getting what you want, the way you want it, every time. With the goal of a "Perfect Order", our people and systems provide you the best experience possible. Each detail of your transaction - from order placement to fulfillment, and from shipment to invoice and payment- is scrutinized to ensure that it is the best we can make it. You will feel confident knowing that every transaction will be handled quickly and consistently, so that together we minimize transactional costs, providing lower total cost of ownership.

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West2007

Semicon West
San Francisco, California
July 14–15; Booth 2904/2905



Chem Show
New York, New York
November 18–20; Booth 2541

ASCO Red Hat Next Generation Solenoid Valve (continued)

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Operations for RHFS. Our recent efforts to stock a larger variety of ASCO products for our Power and Industrial Market customers has helped customers meet the demands of fast-paced projects, making RHFS a more valuable supplier as well. The solenoid uses a power management circuit to provide for lower power consumption, enhanced pressure and flow ratings, and electrical surge suppression to both the solenoid and electronic controls. Red Hat Next Generation valves accept both AC and DC voltages without sacrificing flow or pressure specifications. In this way, DC solenoid performance has been increased by 150% to 500% from today's industry standards, making the valves DC characteristics equivalent to AC pressure and flow valves. This simplifies your control by eliminating the need for AC output cards, reduces wiring costs, and provides safer working environments for users operating on DC. Call 1.925.443.9800 for more information or to schedule a visit with a local RHFS field sale engineer.

WHAT IS THE RHFS ADVANTAGE ?

- What really makes RHFS better? Our PEOPLE! Knowledgeable, using state-of-the-art distribution tools and empowered to take action instantly.
- Use of BARCODEs for more accurate, efficient handling on both ends with fewer put-away/picking errors.
- FLEXIBLE systems allow use of YOUR part-numbers for faster, easier ordering and receiving.
- Advanced LOGISTICS assure accurate, on-time deliveries.

NEW EchoPod Ultrasonic Mini Level Controller/Transmitter

EchoPod™ ultrasonic level controller and transmitter provides a total automated solution for level control of fluids. EchoPod uses sound waves to sense liquid level, replacing floats, conductance and pressure sensors that are sensitive to dirt, sticking and scaling. EchoPod offers non-contact switch, controller and transmitter capabilities in one compact package. Featuring 4 relays, 4-20mA output and pump/valve control, EchoPod is perfect for small tanks/vessels 49.2" (1.25m) or less and well suited for corrosive and dirty applications. Features include non-contact ultrasonic level switch, controller and transmitter capabilities with 2" dead band and beam width. Rugged PVDF housing provides for resistance to a

wide range of corrosive, waste or slurry-type media environments. Level indication can be monitored via a local display or via PLC. EchoPod integrates process or control automation of small tanks mounted on tools, skids or machines. Ideal applications include day tanks, process vessels or dispensers, pump lift stations, waste sumps. Accuracy to 0.125" (3mm), Signal outputs: 4-20mA, 2-wire. Contact type: (4) SPST relays 1A. CE approval. Configured using WebCal pre-programmed menus. If you would like more information on EchoPod Ultrasonic level controllers call 1.800.848.1141. One of our RHFS level control specialists will be happy to assist you. For more info, visit us on the web at: www.rhfs.com



EchoPod Level Controller/Transmitter

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We're active in 25 states. Simply call the number in the featured articles and we'll direct you to the appropriate RHFS service center.

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Our new RHFS Product Guide is now in the works! Providing flow solutions and product information, the catalog will be published in first-quarter 2008. RHFS offers the latest in filtration and fluid-flow products, resources and services.

Ryan Herco Flow Solutions has twenty-six stocking locations throughout the United States including our most recent opening in Boise, Idaho. Markets served include Life Sciences, Microelectronics, Food & Beverage, Power Generation, Chemical, Water and Waste. Field and inside customer service is our hallmark. Product lines include process filtration systems, pumps and instrumentation, fluid-handling valves & controls, process pipe and fittings, acid-waste systems, tanks and level sensors. To reserve your copy of the Ryan Herco Flow Solutions new 2008 color catalog visit us on the web at www.rhfs.com.



RHFS Now Offers Koch Filters for Industrial/Commercial Applications



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