NEW • WHAT'S NEW • WHAT'S NEW • WHAT'S NEW • WHAT'S NEW • WHAT'S NEW

ASCO Numatics
298 Series Steam Valves

ASCO Valves has introduced its 298 Series Steam Valves, designed with stainless steel bodies and discs. This ruggedly built valve is recommended for use with steam, superheated water and corrosive fluids. It features a high-performance, maintenance-free stuffing box, resistant to thermal shock. Pressure can be applied to any port as needed by the process. Optical position indicator is standard. Anti-waterhammer design (fluid entry at orifice 1), is highly recommended for use with liquids. The autoclavable 298 series valve is suitable for use at high ambient temperatures – up to 180C (356˚F). Vacuum operation is up to 10mbar; and allowable backpressure is up to 40 bar. The valves satisfy Pressure Equipment Directive 97/23/EC, category 1 (DN > 32) or article 3.3 (DN 32).

Request/download ASCO 298 Series

Monnier
Stainless Steel Air Prep Products

Monnier, Inc. has expanded its line of stainless steel air preparation products to include ½" filters, regulators and filter/regulators designed and constructed to withstand caustic solutions, harsh operating conditions and demanding applications. The Monnier Stainless Line features 316 Stainless Steel for all metal components, including internals, making them impervious to virtually any sort of degradation. The Stainless Line adheres to the NACE MR0175 standard.

Request/download Monnier 2013 SS Catalog

NOSHOK 820/821 Series
Digital Temperature Indicator

NOSHOK has added new 820/821 Series Digital Temperature Indicators to their offerings. These indicators are an ideal replacement for bimetal, liquid bulb and glass thermometers. Features of the 820/821 Series include all 316 stainless steel construction; a large 4-digit LED display; 4-20 mA programmable linearized output signal; a self-calibration feature for accurate and stable performance; a PT100 Ω RTD Class A element for temperature sensing; M12 x 1 (5-pin) plug or 36" integral cable electrical connection; IP 65/NEMA 4 rated environmental protection; and a 3-year warranty.

Requestdownload NOSHOK 820/821 Series

Numatics
Versatile Push-to-Connect Fittings

Numatics World Thread™ IN-Fittings push-to-connect fittings provide instant connection and seal, and extreme versatility while maintaining optimum flow. Other accessories include NPTF/inch tube fittings, metric fittings, NPTF stainless steel fittings, quick exhaust valves, shuttle valves, metering valves, check valves, air silencers (mufflers), inline and right angle flow controls, and assorted brass fittings. Numatics also offers nylon, polyethylene and polyurethane tubing and accessories.

Request/download Numatics World Thread Fittings

Gems Sensors & Controls
New CAP-100 Series Capacitive Level Sensor

The new CAP-100 Series Capacitive Liquid Level Sensors offer accurate level sensing through the walls of a variety of bottle types including plastic, glass and fiberglass. Especially useful for vessels containing biohazardous liquids, level monitoring is conducted from outside the sealed container. Easy-to-calibrate, they are available in both aqueous and non-aqueous versions and can be delivered with factory-preset sensitivity for quick installation. They may also be used as a proximity sensor to detect the presence of solids. CAP-100 sensors feature IP67 protection, and measure just 2/25" x 1/18" (57mm x 30mm). They incorporate LED signal and power indicators with an integrated potentiometer that allows sensitivity field adjustments. Gems CAP-100 sensors are CE-approved.

Request/download Gems Sensors CAP-100 Series

Fairchild Industrial Products
Model 2000 Pneumatic Volume Booster

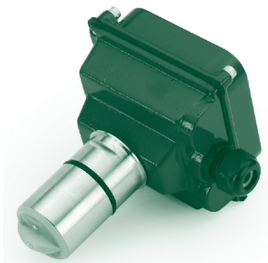
The Fairchild Model 2000 Pneumatic Volume Booster converts a low flow signal to a high flow output. It is ideally suited for air systems requiring rapid valve or cylinder action. A balanced supply valve minimizes the effect of supply pressure variation. An aspirator tube minimizes downstream pressure droop under flow conditions. Large supply and exhaust valves provide high forward and exhaust flows. Soft supply and exhaust valve seats minimize air consumption. Small signal volume assures rapid response to pressure variation. A separate control chamber isolates the diaphragm from the main flow to eliminate hunting and buzzing. The unit can be serviced without removing it from the line.

Request/download Fairchild Model 2000

Seametrics EX80-Series
Insertion Electromagnetic Flow Sensor

Seametrics' EX80-Series insertion electromagnetic flowmeters are designed for use with conductive liquids in 1 to 12" pipe. A choice of materials (stainless steel, brass, and PVC) allows the meter to adapt to a range of temperature, pressure, and corrosive environments.

The EX80 is highly suitable for difficult applications with changing viscosities and pulsating flows, such as air-driven diaphragm pumps. With no moving parts, these meters can be used in "dirty" applications where debris would foul a mechanical meter. Designed for modularity and versatility, the EX80-Series has a current-sinking pulse output that can be combined with the appropriate transmitter or indicator for the application. If the EX80 meter is used with a programmable controller, the output signal can be fed direct, with no other conditioning required.



The EX80-Series meter can be ordered in a full power model when a source of electricity is available, or in a low power model that can run on an external battery with solar panel. EX80-Series fixed depth insertion meters require special fittings. Reverse flow output and immersibility are optional.

Request/download Seametrics EX80-Series

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Tech Tips *from Numatics*

About Particulate Filters

Particulate filters normally found at point of use are part of the air preparation or "FRL" assembly, protecting production machinery from airline contamination. These filters have four main components: the air deflector; filter element typically 5μ; quiet zone or sump area; and bowl drain.

Compressed air passes the deflector first; this centrifugally spins the air removing some water and particulate. This partially clean air passes from the outside to the inside of the element similar to air passing through a screen door in your house. Particles equal to or larger than the element micron rating are contained and the balance passes downstream. Pressure drop has little to no adverse effect on removal efficiency.

The quiet zone at the bottom of the filter bowl has a baffle, allowing the contaminant removed a place to sit out of the air flow, preventing re-entrainment. The bowl will have a drain opened either manually or automatically, preventing build up of excess contamination that would otherwise pass downstream.

These sintered polypropylene elements are typically white. Discoloration indicates the need to replace.

About Coalescing Filters

Coalescing filters are commonly used in the compressor / dryer room and at point of use, where air cleanliness requirements are more stringent, such as non-lubricated applications. Coalescing elements, white in color, are typically 0.01μ through 1.0 μ micron, designed more as a polishing filter used to remove water and oil droplets. Removing vapor, bulk water and / or oil requires prior separation or dryers depending on pressure dew point requirements. Numatics coalescing elements are vacuum formed borosilicate glass fibers, similar to fiberglass insulation in your home. It provides a tortuous path through the element from the inside to the outside causing smaller oil and water droplets to be joined or "coalesced" together. Upon reaching the outside of the element, the now heavier drops run down the element's outside diameter into the quiet zone of the bowl, to be drained away.

Proper sizing is critical as coalescing efficiency is adversely affected by excessive pressure drop. Correctly sized, these filters would deliver the required flow at a ΔP of 1.5. They should be replaced when discolored, or when the ΔP equals approximately 8 PSI.

We are much more than a stocking distributor. We design custom systems, build pneumatic control panels for specific applications and we have a special expertise in pneumatics and air logic. Our people are experienced in electromagnetic, solid-state, air, pressure and temperature controls, AND WE KNOW VALVES – backwards and forwards. For help with your application, call us at (203) 261-6711.

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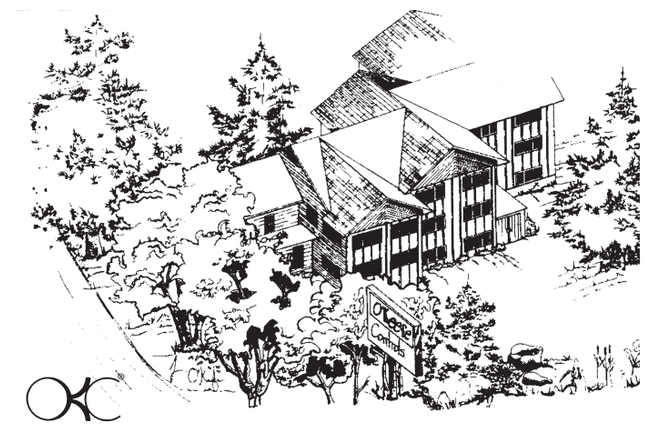

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