



What's New

SOLIDS AND FLUIDS HANDLING

Sanitary Hose Fittings Come in a Variety of Materials



This expanded family of fittings for sanitary hose now includes products made of stainless steel, molded silicone, thermoplastic elastomer (TPE), and polypropylene. The fittings are designed to mate with hose made of silicone, polytetrafluoroethylene (PTFE), polyvinyl chloride (PVC), fluorinated ethylene propylene (FEP), ethylene propylene diene monomer (EPDM), thermoplastic rubber (TPR), and TPE. Each material has distinct benefits. For instance, the Type 316L stainless steel fittings offer a smooth finish (15 Ra or better) to ensure noncontaminating flows, and eight-sided designs for easier tightening in restrictive installations. Sanitary, pipe-thread, and cam-and-groove styles are available. Molded silicone fittings are supplied attached directly to silicone tubing or hose, while TPE fittings are provided directly attached to the company's AdvantaFlex tubing. Both are well suited for single-use applications involving aseptic transfer, sterile processing, and other critical applications in the pharmaceutical and biomedical industries. These assemblies reduce installation time, improve cleanliness, and eliminate entrapment issues and leaks associated with barb-type fittings.

AdvantaPure

www.advantapure.com

Filters Enable Clean, Efficient Process Sampling

Balston Fast Loop Sample Filters are designed to protect sample integrity and reduce filter maintenance. A unique flow pattern continuously flushes the filter cartridge, carrying any contaminants back out to the process stream to protect sample integrity. This enables high-efficiency filtration and real-time sampling, and helps to extend the life of the filter cartridge by minimizing the opportunity for buildup. Cartridges are offered in a wide range of efficiencies, from 100 μm to 0.1 μm , several of which are cleanable and reusable.

**Parker Hannifin Corp.,
Filtration and Separation Div.**

www.parker.com

Close-Coupled Pumps Meet a Variety of Process Needs



The Moyno 2000 Models WA and WB pumps are designed for lower-pressure, lower-flow applications in compact, close-coupled configurations that do not require all the features and benefits of the Moyno 2000 G1 pump. These include industrial and municipal applications that require the transfer of highly viscous fluids and solids where a close-coupled configuration is preferred, but the robustness of a gear joint is desired. The Moyno 2000 WA features bearings integral to the adapter housing, which support the radial thrust loads at the rotor/stator. It also has a standard-size, keyed gear-

reducer shaft. The Moyno 2000 WB features a traditional close-coupled design with thrust and radial loads supported by the bearings in the gear reducer. It also has no shaft bearings, and its gear reducer output shaft is designed with cross-drilled pin holes for extended service life. Both feature optimized rotor/stator pumping element geometry, and a sealed, gear-type universal joint drive train.

Moyno, Inc.

www.moyno.com

MATERIALS

Catalyst Technology Enables Differentiated Resins

The Consista C601 polypropylene catalyst is the first sixth-generation Ziegler Natta catalyst. This non-phthalate-based catalyst system can be used — with no additional capital or upgrades to existing facilities — to produce polypropylene for goods that are lighter, cleaner, and clearer, using maximum machine speeds. It is a drop-in technology option for the Unipol PP Process.

Dow Chemical Co.

www.dow.com

ENVIRONMENTAL

Mobile Facility Recycles Drilling Wastes Onsite

The EcoCentre CR mobile system can process a wide range of drilling fluids and solids, eliminating the need to transport waste to offsite treatment facilities and reducing the amount of waste sent to disposal. The system first destabilizes the incoming waste fluid, then the solids are removed using a centrifuge, which allows for maximum recycling of a fluid free of solids. The modular equipment is easy to operate and can be adapted to meet the requirements of virtually any process.

Baker Hughes

www.bakerhughes.com

Evaporators Improve Efficiency of Wastewater Treatment



DriBoss high-efficiency evaporators and their ancillary components, such as pumps, valves, controls, sensors, etc., are designed to withstand the caustic and corrosive environments that typify many mining, oil and gas, and water treatment applications. The evaporators are available in water-fracturing and atomized-mist designs. Water fracturing involves splitting water droplets with a high-speed fan and propelling them into the air, whereas atomized-mist equipment employs specialized nozzles to create droplets of a controlled size and uses compressed air to propel the mist over a large area. Both of these techniques are said to be well suited to wastewater streams that contain high solids loadings or large particulates. Companion weather stations from the company, to monitor temperature, wind, and humidity, can help to optimize evaporation operation.

Dust Control Technology

www.driboss.com

System Captures Sediment from Stormwater Runoff

The Retenu stormwater-roughing filtration system is designed for use at industrial facilities that produce a large amount of sediment carried away by stormwater runoff. The fully automated, chemical-free system can serve as a standalone filter to remove heavy sediment loads, or it can be used as a pretreatment step to capture the majority of the sediment load upstream of a more-advanced filter. It uses stormwater for backwashing, so it requires

no external water source, and it is available in a range of capacities.

StormwaterRx LLC

www.stormwaterx.com

HEAT TRANSFER

Electric Heaters Employ Gentle, Indirect Heating to Protect Fluids

DFX electric heat exchangers provide fast, safe, and effective heating of liquids and gases. Unlike traditional electric circulation heaters, the



DFX Series heater elements are isolated from the fluid flow path. The heater elements and a coiled, seamless, Type 316 stainless steel flow tube are embedded in a lightweight aluminum casting. This design is said to be ideal for heating deionized water, solvents, sterilization gases, and other substances that are prone to contamination.

Durex Industries

www.durexindustries.com

Device Provides Superheated Steam Quickly

The HGA-S-CX1300 system is an innovative, high-temperature steam generator that produces high-quality, superheated steam at 1 atm pressure in an instant. Models that produce steam at temperatures in excess of 1,300°C are available. The device uses patented heating elements and refractories and has a programmable control panel. A small footprint makes it suitable for laboratory and R&D settings with steam flows from less than 1 kg/h to more than 10 kg/h.

MHI

www.mhi-inc.com

INSTRUMENTATION

LCMS Syringe Filter has a Low Level of Extractables

By protecting liquid chromatography/mass spectrometry (LCMS) columns from particulate build-up, the Acro-disc MS syringe filter reduces the frequency and cost of column replacement and enables more-consistent LCMS performance. The filter contains a water-wettable polytetrafluoroethylene membrane in a high-density polyethylene (HDPE) housing. These materials offer excellent chemical resistance, good particulate retention, and minimal protein adsorption, and they allow the filter to be used with either organic or aqueous solvents.

Pall Corp.

www.pall.com

www.DynatrolUSA.com

Dynatrol

Toll free 800.231.2062 Phone 713.869.0361 Fax 713.869.7332

Designed to monitor high, intermediate or low point-level detection on dry bulk solids as well as liquids or slurries, the **Dynatrol® Level Detectors** are available in corrosion-resistant coatings. The compact, rugged detectors are built in the USA and are solidly constructed for a long operating life. They have no moving parts, require no adjustments and are virtually wear-free – delivering a worry-free solution for your demanding service conditions.

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