



Product Digest

this month's topic **Fluids Handling**

Quick-Disconnect Couplings Are More Secure than Standard Connectors



The SMC polycarbonate non-luer connectors are twist-to-connect couplings that provide a reliable and more-secure connection than traditional luer-type fittings. The design allows tubing to rotate freely when connected to the inline hose barb. This helps to prevent both accidental disconnections and kinked tubing. Connectors are available to fit tubing with an inner diameter ranging from 1/16 in. to 1/8 in. When connected, the coupling body and coupling insert assembly measures 1.5 in. long. The body and insert are offered separately, or together as a set.

Qosina

www.qosina.com

Agitators Are Engineered for Reliable Performance and Value



The MR agitator is designed for a broad range of fluid mixing applications in the chemical, pharmaceutical, and biodiesel/ethanol industries, among others. It has a proprietary, parallel-shaft helical-gear design with

a minimum 50,000-h L10 bearing life and an oversized output shaft for optimal performance and extended service life. The agitator has a rugged cast-iron housing that features a double lip seal to effectively contain lubricant. A swing-out mechanical seal design helps reduce downtime for seal changes. The company also offers custom pedestals, couplings, impellers, and shafts.

Chemineer, Inc.

www.chemineer.com

Filters Provide Fast, Efficient Single-Stage Clarification



The Clarisolve depth filter has a gradient density structure specifically tailored to the particle size distributions of pretreated feed streams in biopharmaceutical applications. The filter has high volumetric capacity, produces a low-turbidity filtrate, and eliminates the need for centrifugation — thus enabling the implementation of a fully single-use process train. This technology overcomes many challenges associated with processing high-cell-density and high-product-titer cell cultures, and it is available in sizes suitable for lab, pilot-plant, and process scale applications.

EMD Millipore

www.emdmillipore.com

Rotary Feeder Introduces Material Efficiently and Consistently

The Aero-Flow rotary feeder is designed to introduce dense materials, such as fine powders, into pneumatic conveying systems. Its 10-vane rotor is



precision-machined with beveled vane tips and sides. Dual-induction end-plates introduce pressurized air into the rotor pockets; the air helps release the dense material from the rotor pockets so that it can be efficiently fed to the pneumatically conveyed material flow. The dual-induction design speeds the material-fluidization process, improves material consistency, and optimizes energy consumption. With housings made of cast iron or Type 304 or 316 stainless steel, the Aero-Flow feeders can withstand pressure differentials up to 15 psig and temperatures up to 500°F.

ACS Valves

www.acsvalves.com

Dosing and Transfer Pump Is Designed for Clog-Free Operation

The PD01 Series

air-operated diaphragm pump has a 1/4-in. port size and is available in a variety of nonmetallic materials. Solids up to 1/16-in.-dia.

can pass through the pump without causing it to clog. The pump provides 15 ft of dry lift, and up to 31.7 ft when it is primed. The Flex-Checks option allows the pump to be mounted in multiple orientations and enables the pump to pass stringy and fibrous fluids, as well as semisolids up to 1/8-in. in diameter. A solenoid-actuated valve option allows users to electronically control and program the pump.

Ingersoll Rand

www.ingersollrand.com



Pumps Are Cost-Effective in a Wide Range of Applications



These pumps are suitable for water sampling, chemical handling, slurry pumping, drainage, and drum transfer, among other uses. The line includes metering pumps, mag-drive pumps, and general utility pumps. The metering pump has integral variable-frequency drive (VFD) motor controls, provides low-shear pumping action, is self-priming, and has high suction

lift capabilities. The mag-drive pump has a patented sealless, magnetic-drive design that prevents leakage, and a pulsation-free, low-shear pumping action that protects product integrity. It can handle toxic, aggressive, caustic, and even flammable fluids. The general utility pump is a compact and versatile unit that offers economical, high-efficiency performance and provides accurate, repeatable, non-pulsating, low-shear flow.

Moyno

www.moyno.com

Micro-Dosing Pump Boasts Precision and Reliability

The Type 7615 micro-dosing diaphragm pump is self-priming and is designed for precise dosing in the

microliter range.

The pump has three valves that can be operated to allow pumping in two directions, and they can be simultaneously opened to allow flushing of the pump. The dosing quantity ranges from a minimum of 5 μL per stroke to a maximum 8 mL/min in both directions with accuracies of less than $\pm 2\%$. The pump has a valve body constructed of polyether ether ketone (PEEK). Seals are available in both perfluoroelastomer (FFKM) and ethylene propylene diene monomer (EPDM).



Burkert Fluid Control Systems

www.burkert.com

One tough test. One clear winner. CALFLO[™] AF.

Results from
Severe Oxidative
Stability Test.



A specialty heat transfer
fluid competitor
No flow, remains completely
stuck in tube.



A world leader in industrial lubricants
Flows, but severe build-up of deposits
remains in tube.



CALFLO AF
Flows easily, stays cleaner longer.



CALFLO AF delivers longer fluid life and better equipment protection. And more savings to you.

We put CALFLO AF and leading competitors to the test in a challenging Severe Oxidative Stability Test and the results are clear. CALFLO AF provides better oxidative stability for longer fluid life and enhanced equipment protection. That means more savings in operations and maintenance costs. And less worry. Test CALFLO AF, or another product in our line of CALFLO heat transfer fluids, in your operation. And see the results for yourself.

Visit www.calflo.com for the clear facts.

Petro-Canada is a Suncor Energy business

™Trademark of Suncor Energy Inc. Used under license.

Beyond today's standards.

