

Side entry mixers + propeller eliminate crude oil tank BS&W

Cutlass side entry mixers have been advanced to include fixed-angle and swivel models for petroleum operations.

An easy-to-remove cartridge-style mechanical seal now allows more room to access and maintain bearings and seals. The shaft is precision-machined to reduce vibration and increase bearing life. Vibration and temperature sensors can be mounted on pads cast into the housing to monitor the unit while in operation.

Cutlass mixer teams with Lancer Advanced Pitch Propeller to optimize mixing for the **elimination of basic sediment and water in crude oil tanks**. It also delivers accurate predictability for blending, effective heat transfer, plus energy savings in excess of 30%, according to the manufacturer. This technology focuses to lower electrical consumption, improve tank integrity, and oil movement performance in aboveground storage tanks.

Philadelphia Mixing Solutions Ltd.
1221 East Main Street, Pottsville PA 17078



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Redundant valve manifolds serve Safety Instrumented Systems

Critical process control is delivered to Safety Instrumented Systems by new RVM redundant valve manifolds where unscheduled shutdowns are unacceptable.

RVM is announced as one of the first to offer a two out of three (2oo3) configuration: If one of the three pneumatic logic circuits should malfunction, there are two logic circuits still operational, so critical redundancy is maintained.

In stainless steel or aluminum, the SIL-certified valves are on a single manifold to eliminate duplicate piping required to install redundant valve systems. At refineries, chemical plants, on offshore rigs or in other critical processes — this design saves space, simplifies installation, and reduces potential leak paths. Unlike piped systems, the entire valve assembly is SIL approved, notes the maker.

Morgren
3400 South Delaware Street, Littleton CO 80120

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Catalyst reduces VOC, toxic organic compounds from PTA

This free brochure presents newly developed Halocel SC29 Catalyst to reduce up to 99% of VOC and toxic organic compounds from PTA (purified terephthalic acid) manufacturing plants.

The low-cost base metal catalyst is cited to provide "same emissions reduction performance as precious metal-based catalysts." Savings in new plants or replacement of existing PGM (platinum group metals) are cited to "nearly offset the cost of the SC29 catalyst."

The new product targets pollutants in PTA plant exhaust systems including carbon monoxide, methyl bromide, acetic acid, benzene, toluene, alcohols, acetates, formates, and xylenes.

Johnson Matthey
938 Forge Avenue, Suite 100, Audubon PA 19403

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Universal transmitters made for multiple analytical measurement

Model T80 universal transmitters are "powerful process analyzers for multiple analytical measurement."

With a highly intelligent digital transmitter protocol, T80 simplifies process measurement plus reduces maintenance costs for seven common industrial plant parameters: pH, DRP, pION, dissolved oxygen, turbidity, conductivity, or resistivity. It digitally communicate with any of the maker's SBD intelligent sensors, and automatically configures the transmitter's menus and display screens to measured parameter.

Electro-Chemical Devices Incorporated
1681 Kettling, Irvine CA 92614

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Modular recip pump systems employ five-plunger design

Quinmax S500 crankshaft-driven reciprocating pumps are announced to use a five-plunger design. This reduces mechanical pressure on internal parts for reduced maintenance requirements and increased reliability.

Its five piston crankshaft allows 340 to 1080Ltr/min at 190 to 1000Bar. The range is driven by 300 to 400Kw motors and features ram diameters from 50 to 80mm. Because load on each plunger is reduced (compared to three plunger designs) there is a 40% reduction in fluid velocity per plunger and thus lower hydraulic noise.

Complete Quinmax S500 information is yours free.

FMI Pressure Systems, Industrial Products Division
Wenlock Way, Manchester M12 5LJ United Kingdom

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Brochure: how flow conditioners support flow meter, processes

How Vortab flow conditioning devices support flow meter accuracy and process efficiency is the subject of this free brochure.

The devices are also presented for use on other flow profile critical process equipment to improve accuracy, performance, and repeatability.

Emphasized is the patented Vortab flow conditioning process which combines proven swirl removal technology. Both inline and insertion-type flow conditioners are cited as available.

A straight-run is required in flow meter and pump installation to overcome the swirl, asymmetrical flow profiles, and otherwise un-repeatable flow created by elbows, pipe expanders or reducers, valves, dampeners, and other disrupters in process pipe.

Vortab, 1755 La Costa Meadows Drive, San Marcos CA

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Union bonnet tandem valves isolate instrumentation lines

B1 union bonnet tandem valves are used as primary isolation valves for instrumentation lines where highest requirements are placed on the safety of the shut-off function.

B1's tandem arrangement offers safety when workers perform service work on pipe assemblies — especially with media are under high pressure/temperature, or with hazardous media.

Models comprise two separate independent union bonnet valves in a single body. Valve head units are flange-mounted to the valve body with a union nut. Bore size on the valve seat is 11 mm. The sealing to atmosphere is performed by the nonrotating valve stem. This achieves a low actuating moment, reduces load on the sealing, and increases service life.

A5-Schneider

Bahnhofplatz 12, 74226 Weidheim Germany

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