

### Recessed impeller pump

Dragflow's no-clog Pump EL60 RI is the first of its upcoming series of Recessed Impeller

Pumps and ensures the passage of solids, up to 100 mm through the pump casing, avoiding the risk of clogging and increasing pump efficiency. Flowing solids are quickly discharged, reducing internal recirculation, so the hydraulic efficiencies and pump wear life are increased as well. Due to the natural flow of the fluid through the casing, fragile

solids can pass through the pump with minimum risk of damage. The pump is also available with Dragflow's Agitator or Chopper, used separately or combined.

**Dragflow**

[www.dragflow.it](http://www.dragflow.it)

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### Submersible pumps

BJM Pumps has announced the release of the new XP-KZN heavy-duty, submersible, explosion-proof pumps, designed for tough conditions where FM, C/US approval (Class I, Division 1, Group C & D) is needed. The XP-KZN features a top discharge, slim-line design with an agitator to suspend heavy slurries containing coal, ash, sand, gravel, or other abrasive materials. The top discharge and slim design allow for an easy fit into tight, thin spaces. The agitator helps keep solids suspended in liquid and helps prevent the pump from clogging, reducing capital and operating costs.

**BJM Pumps**

[www.bjmpumps.com](http://www.bjmpumps.com)

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### Corrosion control film

S-10FA from Cortec® Laboratories is a filming amine formula for corrosion control in boiler condensate systems. The molecules of S-10FA anchor their hydrophilic heads to wetted metal surfaces, while their hydrophobic tails will shield metal surfaces from contact with acidic corrosive condensates and prevent corrosion products, dirt and other impurities in condensate return systems from attaching to the metal. A thin, protective field is formed on the metal when S-10FA is volatilized in the steam stream. S-10FA should be added separately from other boiler treatment chemicals and preferably be injected into the steam header.

**Cortec Corporation**

[www.cortecvci.com](http://www.cortecvci.com)

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### Surge detector, recorder

Weidmuller's DIN rail-mounted surge detector and recorder, the Varitector Logger 30, is designed to detect transient surges over 50A in ground circuits of industrial control systems. This module expands the Weidmuller surge protection portfolio with a key analytical tool capable of helping users vulnerable to lightning surges understand the transient voltage activity in their control and distribution systems. The self-contained IP20 module with an integral LCD display provides access to time-stamped surge event data. The Varitector provides the ability to verify how many transient events have occurred, along with their timing.

**Weidmuller**

[www.weidmuller.com](http://www.weidmuller.com)

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### Mass flow meter

Magnetrol has released the Thematel® TA2 thermal dispersion mass flow meter with FOUNDATION fieldbus™ digital output communications, offering all of the advantages of the standard TA2 model, such as: dual gas calibration with two unique curves (e.g., propane and natural gas); field adjustability to install in different gas types or adjust for different gas mixes; a calibration verification procedure that provides cost savings due to decreased process downtime and unnecessary recalibrations; internal resettable and non-resettable totalizers; a strong signal at low flows and low pressures with high turndown; and ISO 17025 and NIST traceable calibrations.

**Magnetrol International**

[www.magnetrol.com](http://www.magnetrol.com)

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### Hydraulic diaphragm metering pumps

Neptune™ Chemical's Series 500 hydraulic diaphragm metering pumps improve the accuracy and reliability of drip- and center-pivot irrigation systems by applying fertilizers and chemicals in the most precise, timely and cost-effective manner. Neptune Fertigation and Chemigation

systems have been designed for the application of fertilizers, herbicides, fungicides, insecticides, and other strong chemicals.

The chemical tanks have a sloped bottom for complete drainage and ease of cleaning. All tanks larger than 55 gallons are fitted into double-wall containment and injection lines to protect the environment.

**Neptune Chemical Pump Co.**

[www.neptune1.com](http://www.neptune1.com)

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### Valve actuators

Rotork CQ pneumatic and hydraulic valve actuators are engineered to deliver a self-contained solution for applications demanding functional integrity and safety where space is limited. They incorporate a fully concentric, balanced, compact design that provides reduced dimensions when compared with conventional scotch-yoke actuators. The CQ's symmetric design is totally enclosed with a rugged, waterproof housing, which contains a helical mechanism that transforms linear piston motion into 90° (+/-5°) rotation for the operation of quarter-turn valves. Output torques up to 600,000 Nm (5.3 million lbf-in) are available, and customization of the torque profile is available to suit individual valve requirements.

**Rotork Controls**

[www.rotork.com](http://www.rotork.com)

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