Katronic streamlines water flow measurements

A non-invasive, clamp-on Katronic KATflow 200 portable ultrasonic flow meter is helping the Indonesian water well drilling company, Supra Indodrill, to accomplish one of their key tasks - reliably measure debit (offtake) of water from a well to monitor pump performance and optimize well efficiency.

Before Supra Indodrill purchased the KATflow 200, they had to interrupt the process and introduce an orifice meter or V-notch weir and mechanical flowmeter to measure flow. The Katronic meter requires only that two compact transducers are clamped to the outside of the pipe, transmitting ultrasonic pulses through the pipe wall and the water flowing through it. Each transducer both emits and receives pulses, the flow rate being calculated from the difference between the time taken for the pulse to travel "upstream" and "downstream" in the pipe.

Director of Supra Indodrill, Aryanggi Iwan, said, 'We used to use a conventional v-notch to test the debit of the water well, which took more time and led to higher costs than using the clamp-on Katronic flowmeter. We recently used the KATflow 200 to test water debit from water production wells of a gas company. They were really satisfied with the method because they could use their water well normally while we were measuring the flow."

"We can measure the debit ten times faster than the conventional method, with higher precision. We are the first water well drilling company in Indonesia to introduce this device, it really improves our service."

Katronic's KATflow 200 is a compact, battery powered system, part of a Katronic non-invasive flowmeter range that includes wall-mount, multi-point and hazardous area options. Katronic Technologies Ltd. is based in Coventry, United Kingdom.

Caprari borehole pumps feature new hydraulic design

The new Caprari range of Endurance borehole pumps – E10PX – promises high efficiency and long-lasting performance due to its innovative hydraulic design, according to the Milan-based Italian pump manufacturer Caprari. The design configuration uses precision-casting stainless steel AISI 316 in order to withstand challenging conditions and aggressive water. The shaft and coupling of the E10PX are provided in Duplex to maximize reliability in harsh environments, and the pump-motor coupling area is fitted with the device protector, adding more protection against abrasion.

Caprari's patented DEFENDER® features an innovative hydraulic design that allows high flow rates with a reduced external overall diameter. Notably, the Caprari E10PX Endurance electric pumps have an operating range that covers duties normally met by 12-inch (or larger) pumps and delivers a high head per stage, allowing a more compact and reliable pump to be selected for comparable hydraulic needs.

The Caprari E10PX Endurance 10-inch borehole range can be used in a wide variety of applications including captation from deep wells, many civil and industrial uses, reverse osmosis, and heavy-duty applications such as mining and offshore oil and gas drilling.

RapiSand Plus™ for high solids water

WesTech Engineering, Inc. recently added RapiSand Plus™, a complete package treatment facility for municipal and industrial applications handling high solids water.

The RapiSand Plus package treatment plant provides both clarification and filtration within a single tank. It is designed to meet customer demands for a compact, low-cost, high-performance system capable of treating high-solids and high-color influents to produce high-quality effluents. And because both the clarification and filtration processes are from a single provider, it also meets the need for flawless integration between processes.

RapiSand Plus's two-stage system is simple and versatile. The ballasted flocculation system in the first stage mixes coagulated raw water with microsand to create a ballasted floc that settles rapidly. The mixed-media filter in the second stage removes turbidity, remaining suspended solids, color, iron, and manganese to produce a high-quality effluent.

"The RapiSand Plus water treatment plant is the most advanced product of its kind because it combines the ballasted flocculation technology from our RapiSand clarifier, which clarifies flashy waters of up to 1,000 NTU turbidity, with the mixed media filter technology from our Trident® package plants, producing up to 1,400 gallons (5,300 liters) per minute of high-quality drinking effluent," explains WesTech Product Manager Jayme Tuomala.

The all-in-one treatment plant is an ideal choice for customers with tight space constraints. The RapiSand Plus fits into a standard-sized building, making it comparatively easy to install. It also offers quick start-up times, reaching steady-state operation in as little as 15 minutes from power-up. Additionally, it delivers high performance while saving on installation and operations-energy costs.

The KATFlow 200 offers easy, portable, non-invasive flow measurement, according to Katronic.