

Canal Seepage Recovery



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Vertical pump to transfer seepage from second canal to primary canal



Installation of EMCO Unimag



12 Inch mag installation

The EMCO Unimag is coupled with a DSM11 Transmitter to monitor the flow rate of canal seepage recovery.

Customer Profile

An Irrigation District supplies water to over 450,000 acres of highly productive farmland. A vast array of canals allow for the transportation of the water. In some cases, the main canal is not lined and seepage occurs. Through process of seepage recovery, a vertical pump recovers the water and injects it back in to the main canal.

Meter Choice

The EMCO Unimag is an environmentally friendly flow meter. The Pulsed Hybrid Technology allows the sensors, coils, electrodes and grounding ring modules to be in a solid-state electronic form. The low power consumption of 10-12W keeps energy bills lower for the District.

In dirty water applications, the EMCO Unimag provides a high signal-to-noise ratio and provides a guaranteed field accuracy of +/-0.5% under extreme conditions.

The flow tube assembly is NEMA 6/IP68 and can be completely submersible if there was a situation of flooding.

Not having a liner to fail increased the reliability of these meters.

Maintenance Solutions

If there is ever a clog, the EMCO Unimag provides easy removal of the sensor module (within less than 10 minutes) so the flow tube can be reamed out.

The District can stock a Delta Kit assembly of a J-box and sensors for pipe sizes 6" to 14". If there is a coil or grounding ring failure due to a lightning strike, the sensor can be replaced in the field.

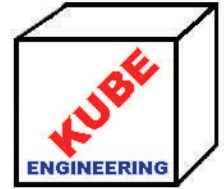
Once installed, the flow tube does not have to leave the application.

Project Information

Currently the District uses 8", 10" and 12" meters. As more recovery points are realized, we look forward to working with the District to be their mag of choice for technology, ease of maintenance, long term reliability and energy savings.

Features

- SOLID STATE SENSORS; NO MOVING PARTS
- PATENTED HYBRID COIL EXCITATION (HIGH COIL CURRENT AND HIGH PULSATION FREQUENCY)
- ACCURACY UNAFFECTED BY MEDIA COATINGS SUCH AS CHLORINE, CALCIUM CARBONATE, RAW SEWAGE, GREASE, ALGAE, AND SIMILAR
- NO SENSOR CLEANING NECESSARY
- HIGH SIGNAL-TO-NOISE RATIO FOR IMMUNITY TO MEDIA NOISE.



Instrumentation Sales, Engineering and Service

KUBE ENGINEERING

5876 Fairlane Drive
Riverside, CA 92506

Phone: 951-328-0343
Fax: 951-328-2632

E-mail:
quinn@kubengineering.com

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