Integrated Irrigation Management Solutions

Field Pressure, Flow, and Air Control

Sand Separators and Filtration

Growth-Based Irrigation

Remote Automation Control and Analysis

Water Source Management

Water Control Solutions

BERMAD

Since 1965, BERMAD has been interacting with the world's major designers, entrepreneurs, irrigation companies, dealers and end users – accumulating knowledge and experience in planning and implementing diverse applications that meet a wide range of agricultural irrigation needs.

Today, we are recognized as a pioneer and established world-leading provider of water flow management solutions that enhance and protect water systems in irrigation and provide our customers with unprecedented operational efficiency.

A single, trusted focal point for all of your automation needs

After spending more than 50 years supporting all of your hydraulic needs, it's only natural that we're the first to offer **fully-integrated irrigation management solutions**. These unique holistic solutions include:

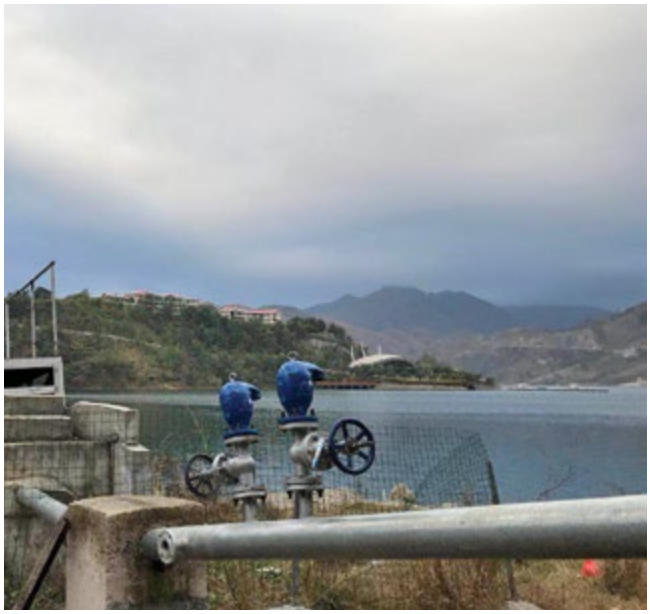
- Innovative technology and stand-out products – proven hydraulic control valves, high-performance air valves, innovative smart meters, controllers and fertilizer platforms, and filters
- Comprehensive cloud-enabled management systems
- Exceptional end-to-end technical and engineering support

From the initial characterization and planning stages of your irrigation water system, through to design, engineering, production and installation, and way beyond – we're here to help you synchronize all stages of the project and offer you everything you need and more to solve your automation needs and challenges.

Innovation Integrity Commitment Quality Professionalism

Guizhou Zhenfeng Water Delivery

China



Description

A surge protection solution to secure a mainline from a pump station on the Beipan River to an orchard irrigation reservoir at the top of a nearby mountain.

Solution & Results

BERMAD analyzed the customer's pipeline data using professional software. One 2.5" 835 piston-operated surge anticipating valve and two 2" C70-SP combination air valves with a surge protection device were recommended for the surge protecting set. Additional air valves along the pipeline were sized and located to increase pump efficiency and prevent vacuum conditions. Following installation and adjustments, the system is working smoothly and is surge free.

Olmos Irrigation Project

Description

The Olmos Irrigation Project in Peru is comprised of 38,000 hectares of new land owned by the Regional Government and 5,500 hectares owned by the Rural Community. The project, which was initiated in September 2012, includes the Huancabamba river diversion to the Pacific Coast through a 20 km tunnel and a large-scale irrigation infrastructure.

Solution & Results

BERMAD participated in the project since its early design stages and provides consultancy for designing the flow and pressure control solutions for the 10 hydrants of 2,340 m^3/h and 8 hydrants of 1170 m^3/h; the 97 pivot inlet systems that include a flow & pressure control system and a booster pump; surge analysis and simulations; 500 combination air valves; and also flow meters and relief valves. The project was successfully commissioned

Peru

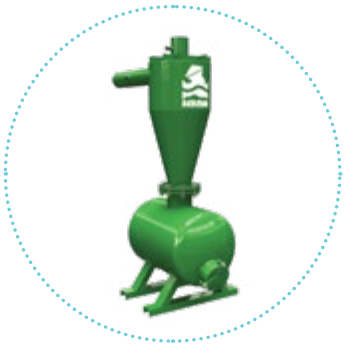
during Q1 2015, with the remote support of BERMAD application engineers and local support provided on site by the skilled technicians of BERMAD Peru.

6" Pressure
Sustaining Valve

2" Quick Pressure
Relief Valve

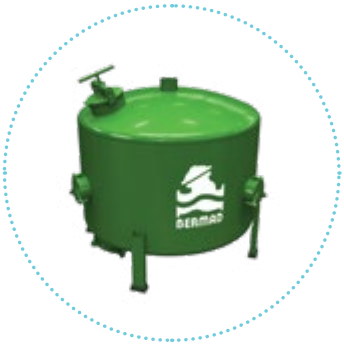
Electromagnetic
meters

2" Combination
Plastic Air Valve



Hydro Cyclone

6" Booster Pump
Control Valve



Media Filter

2" Combination
Metal Air Valve

Scan for additional projects

Spain

CCRR Callen

Description

CCRR Callen is a 1,872 Ha and 70 user irrigation consortium for growing corn, barley, wheat and alfalfa. The project was designed to optimize airflow in the network, provide surge protection, allow automatic adjustment to different scenarios and upgrade its water system and usage for increased crops.

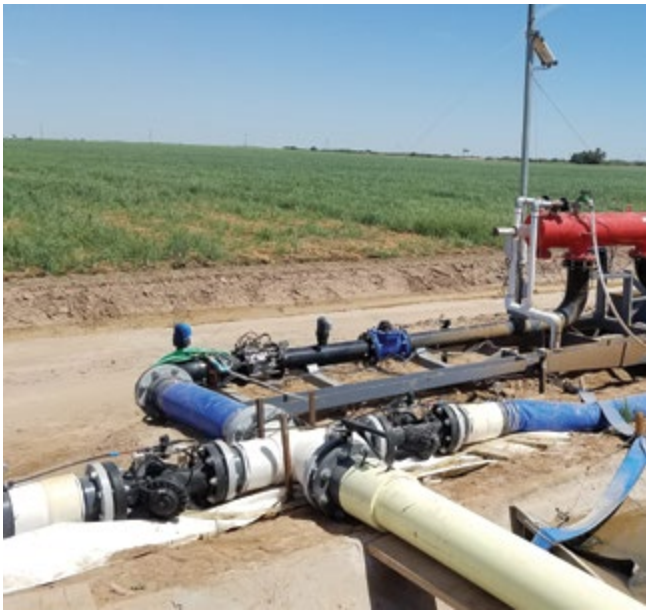
Solution & Results

The BERMAD solution included surge protection with:

- Pilot-operated surge anticipating valves combining a low pressure solenoid control backup for situations where normal pressure drops below the pilot setting.
- Several C70 combination air valves to cope with vacuum conditions.

In addition, a BERMAD remote-controlled pressure reducing and flow limiting hydrometer was installed at each plot. The consortium remotely controls each hydrometer according to the designed irrigation shifts.

The new system is now fully automated and optimizes the use of water. It ensures a constant supply of water and allows for the implementation of advanced irrigation techniques, real-time monitoring and 24/7 operation.



USA

Northend Equipment Farms, Imperial County of California

Description

Six trailer-mounted diesel pumps, each irrigating 100 acres of onion lines. The farmer's objective was to reduce labor costs, increase irrigation efficiency and always have water available to irrigate.

Solution & Results

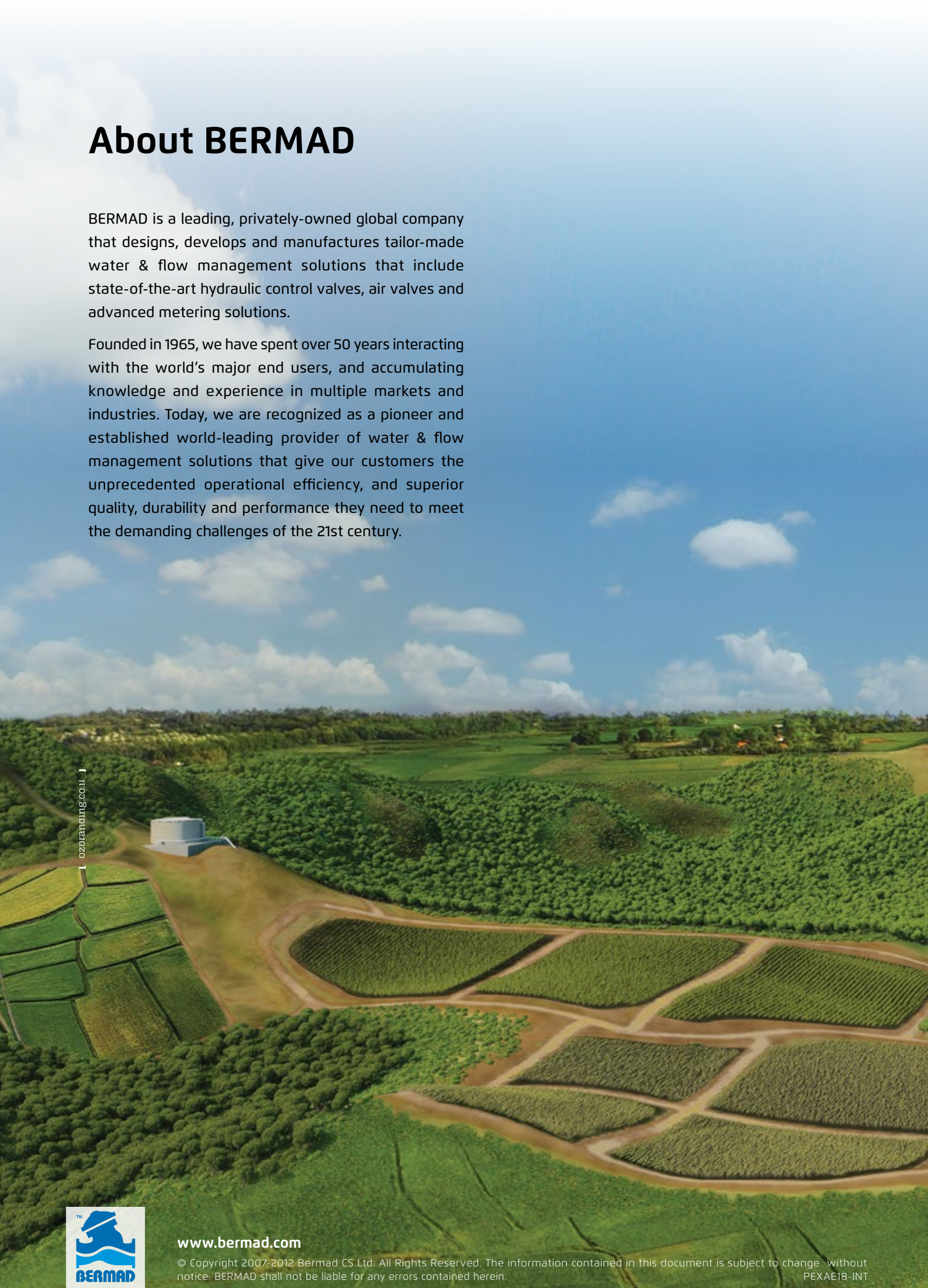
BERMAD installed a comprehensive controller BIC2500, ultrasonic level sensors over the canals, pressure transducers on each of the irrigation lines, turbo-bar water meters, and a pressure sustaining/reducing valve with electric override solenoid 123-59 connected to the BIC2500 to enable the farmer to:

- Avoid paying higher fees for last-minute orders of water.
- Monitor pressure, stop over pressurization and reduce leaks.
- Monitor flow to ensure proper volume irrigation.
- Stop pump start-up oscillation and allow irrigation valves to successfully open and close five miles away .

About BERMAD

BERMAD is a leading, privately-owned global company that designs, develops and manufactures tailor-made water & flow management solutions that include state-of-the-art hydraulic control valves, air valves and advanced metering solutions.

Founded in 1965, we have spent over 50 years interacting with the world's major end users, and accumulating knowledge and experience in multiple markets and industries. Today, we are recognized as a pioneer and established world-leading provider of water & flow management solutions that give our customers the unprecedented operational efficiency, and superior quality, durability and performance they need to meet the demanding challenges of the 21st century.



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