

Valley® Water Management



VALLEY 
WATER MANAGEMENT

Valley® Water Management Solutions



With a 60 year history in mechanized irrigation, Valley® is the most trusted name in irrigation. Now, Valley Water Management gives you another way to trust Valley by providing engineered pumping solutions for agricultural applications. Because irrigation is one of the most important crop inputs, growers are rapidly developing new water sources to meet their irrigation needs. Whether you are building a new reservoir, drawing from a canal, or using well fields to supply your irrigation machines, Valley Water Management and your local dealer can custom design a high-efficiency pumping solution to meet your needs.



Valley Water Management pumping stations are customized to:

- Meet the specific requirements of your project
- Provide high-operating efficiency
- Deliver the high-quality features you want
- Save you money on the initial installation
- Reduce your operating costs through correctly sized pumps and components
- Use Variable Frequency Drive (VFD) controls to save energy



Get Up and Running Quickly and Easily

In addition to saving you money, Valley Water Management's skid-mounted pump stations are designed to make installation quick and startup easy. Everything required to make the pump station work is assembled on a single skid.

This can include:

- Pumps
- Headers
- Motors
- Valves
- Controls
- Flow meters
- VFDs

The modular skid arrives as one unit that only requires hook up to the pump intake, discharge piping, and energy source. Every pump station is tested before being shipped to ensure a trouble free startup once installed on site. Your pump station will be custom-designed based on the application you need.



Save Money with Variable

Valley Water Management has partnered with Yaskawa™ to bring you the highest-quality, highest-performing variable frequency drive (VFD) for agriculture.

The Yaskawa iQPump®1000 VFD (or Valley Water Management VFD) leads the industry in performance and features for agricultural irrigation applications and is now available through your local Valley dealer.

A variable frequency drive controls your pump motor's speed to deliver only what your operation needs to function at optimal efficiency. The VFD responds to a pre-programmed input signal, usually a pressure transducer, to vary pump speed to match your exact requirements. This can dramatically boost efficiency and energy savings by preventing over pumping and over pressurizing of your irrigation equipment. And energy savings means cost savings!

Benefits to you:

- Save money – VFD energy savings produce meaningful cost savings that will continue for many years.
- Multiple control options – Control your drive via pressure, flow, level, or any factor you prefer.
- High quality, high reliability – Our VFDs are field proven in the ag market with thousands of units in operation.
- Powerful software – the iQPump1000 software from Yaskawa is the best and most versatile software on the market today.

iQPUMP®1000

Intelligent Pump Controller



Frequency Drives



Valley drives offer numerous built-in protection features that not only ensure your pumping solution operates smoothly, but protect your investment if something does go wrong. All these protection features are standard on our VFDs. Learn more about these features on our website, www.valleyirrigation.com

Pump Protection Features

- Pump cycling
- Pressure feedback lost
- Pipe break detection
- No flow
- Loss of prime
- Low/high pressure feedback detection

Motor Protection Features

- Output phase loss
- Motor over temperature
- Overload current limit
- Ground fault
- Broken shaft
- Motor overload
- Minimum speed

VFD Protection Features

- Over/under voltage
- Short circuit
- Input phase loss
- Over temperature
- Phase imbalance

Valley Water Management VFDs feature the iQPump1000 software from Yaskawa designed specifically for ag irrigation and water pumping – it's the most powerful and robust software available. Don't settle for software that was originally designed for controlling fans, conveyors, and HVAC systems. Some of the software features include:

- Application specific programs (for turbine, submersible, centrifugal, etc.)
- Load management automatic system restart
- Pipe fill mode
- Constant pressure control with well draw down control
- Impeller anti-jam automatic control
- Submersible motor thrust bearing control
- Loss of prime and dead head monitoring

Our software also gives you to maximum design flexibility by allowing you to control multiple lag pumps without additional hardware or programming, which reduces package costs.

All Valley Water Management VFDs come in outdoor-rated NEMA 3R enclosures. This gives you confidence that your drives will perform reliably, even in harsh conditions. It is available with many options, including harmonic filters if required.

Valley Drive Connect™



Get the maximum benefit out of your variable frequency drive investment with Drive Connect™. This Valley-exclusive product allows you to control your VFD from the point you really care about – the end of the pivot.

Drive Connect allows you to put a pressure transducer at the end of your center pivot – or anywhere you want to monitor pressure – and wirelessly transmit the pressure signal to the VFD for control of your pumping operation.

Valley Drive Connect ensures you are getting the maximum efficiency from your drive by not over or under pressurizing your operation at its most critical operating point. It's an affordable way to get the most savings from your VFD investment.

Drive Connect features include:

- 900 MHz, frequency-hopping radios for reliable performance
- Extend range with optional high-gain antennas
- Works with Valley Pump Connect® nodes for on/off control
- Indicator light shows operating status

Valley Pump Connect®

Automate your pump's operation with Pump Connect from Valley Water Management and eliminate time-consuming trips to pump sites or expensive trenching to install wires.

Pump Connect allows you to wirelessly control your pump from your center pivot control panel. When the pivot calls for "water on," Pump Connect sends a signal to start the pump and get the water flowing, saving you a trip to the pump site.

Optimal Connectivity:

- Uses a 900 MHz, frequency-hopping radio with one watt output
- Radio searches for and uses the strongest available signal
- Provides best possible connectivity regardless of uneven elevation, difficult terrain, or field obstructions
- Offers broad capability for connecting multiple devices, including multiple pivots connected to one pump, or one pivot connected to multiple pumps
- Can include up to 48 radios in one setup

Additional Features and Options:

- Field serviceable and easy to maintain
- Modular design allows individual components to be serviced without having to replace the entire unit
- Quick, visual indicator of the pump's operating status: green light means all is well, flashing red light indicates an issue
- Can be used with electrical or diesel pumps



Premium Solutions Built For You

Your premium pump solution will be custom-designed to fit your operation.

Valley Water Management offers:

- Individual units for small installations
- Fully integrated project design and supply from the water source to the end of the irrigation machine
- Engineered pump stations designed to fully integrated with your irrigation equipment
- The option to purchase unassembled units for a lower cost
- Installation of the pump solution to your satisfaction, including on-site support

In addition to custom engineered pump stations, Valley Water Management can provide full irrigation design services that can include reservoir sizing, pipeline design, pumps, valves, and controls for a complete, efficient irrigation operation.



Choose Full Remote Communication



Valley Water Management also gives you plenty of options, including the unmatched ability to remotely monitor your pump station. The Valley BaseStation3™ has integrated control and monitoring features for Valley Water Management pump stations. You won't ever be left wondering if your pump station is operating correctly. Regardless of where you are, you'll know the status of all your irrigation equipment.

Key BaseStation Features:

- Flow and pressure automatically controlled via pump system
- Remote control and monitoring
- Integrated fault monitoring



See your local authorized Valley dealer for complete details.



Valmont® Irrigation has a policy of continuous product improvement and development. As a result, certain changes in standard equipment, options, price, etc. may have occurred after the publication of this brochure. Some photographs and specifications may not be identical to current production. Your local Valley® dealer is your best source for up-to-date information. Valmont Irrigation reserves the right to change product design and specifications at any time without incurring obligations.

www.valleyirrigation.com

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