

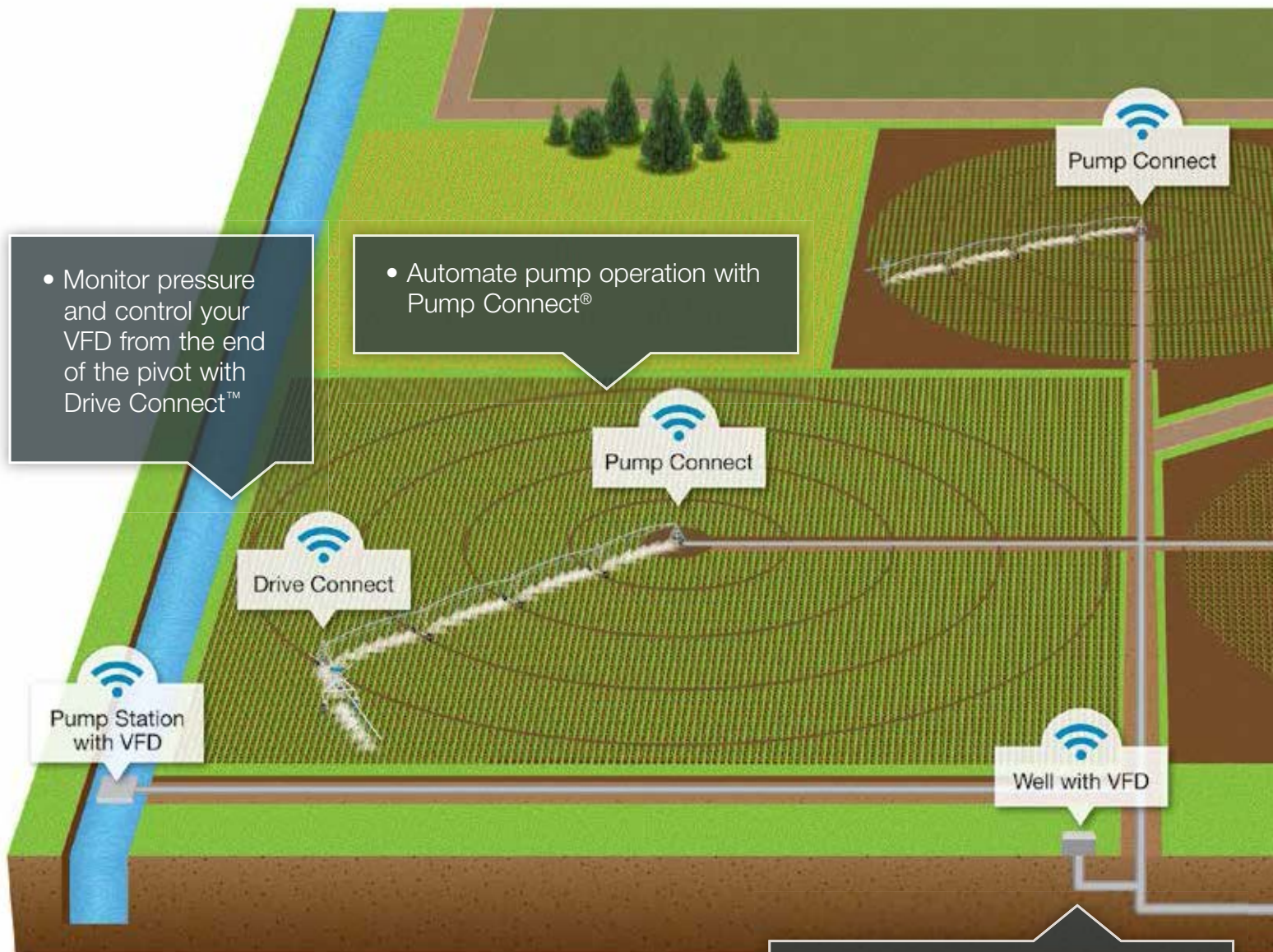
Valley® Water Management



VALLEY 
WATER MANAGEMENT

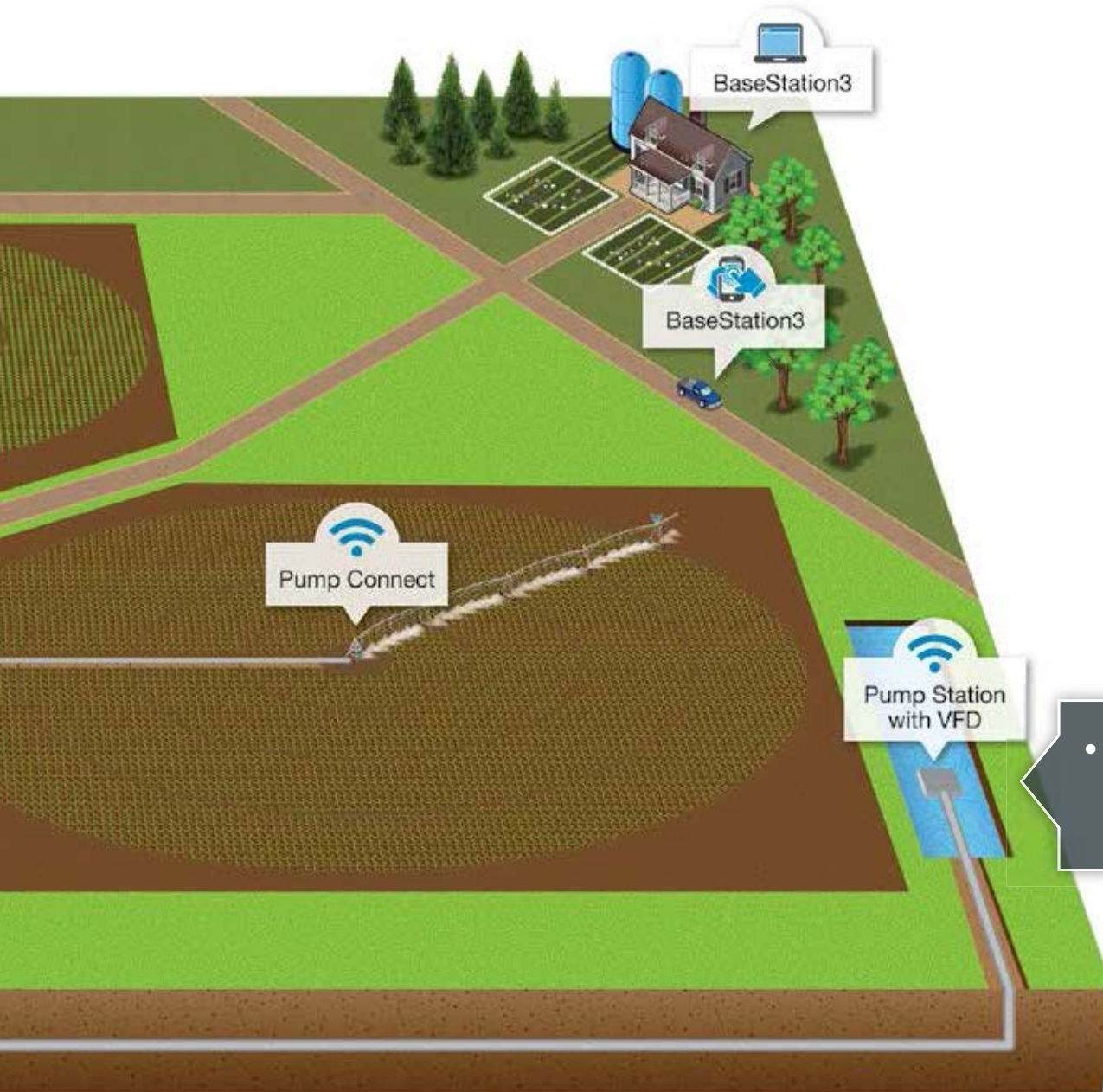
Your Water Source Specialists

When it comes to navigating the challenges of detecting and developing sources for irrigation, turn to the experts in water conveyance. Valley Water Management provides you with a sustainable water source and a way to manage it from the pumping station all the way to the crop. We work with you to design and create a customized plan for your operation.



- Boost efficiency and energy savings with variable frequency drives (VFD)
- Slowly ramp up current to reduce wear and tear with soft starts

- Complete integration with BaseStation3™
- Customized telemetry to monitor, control and automate pumping stations



- Pump stations designed to meet your needs

Valley Water Management Solutions

Because irrigation is one of today's 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 design a high-efficiency pumping solution to meet your specific needs. Our specialized team of engineers, agronomists, soil scientists, geologists and hydrologists will design your project based on your farm management practices.

Our pumping stations are customized to:

- Get the water from wherever it is to wherever you need it
- Meet the exact requirements of your project
- Provide high-operating efficiency
- 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



Customized Telemetry



You want to automate your operation whenever possible, and Valley Water Management is committed to providing telemetry solutions that make that possible. We also provide full start up and training support and make it easy for you to expand your operation.

Our team will design:

- Fully customized telemetry to control and monitor pump stations
- Fully automated pump stations that start, stop and operate based on programmed parameters – no operator action is required
- Pump station telemetry fully compatible with BaseStation3 and AgSense®
- Custom programming tailored to your specific needs, including factors such as crop, time of year and water source availability



Get Up and Running Quickly and Easily

Valley Water Management skid-mounted pump stations are designed to save you money while making installation quick and start up easy. Everything you need to make the pump station work is assembled on a single skid. Your pump station will be custom-designed based on your needs.

Valley Pump Connect®

Pump Connect allows you to wirelessly automate your pump from your center pivot control panel without expensive underground wire. 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 that searches for and uses the strongest available signal
- 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
- 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

Save Money with Variable

The Yaskawa iQPump®1000 VFD (or Valley Water Management VFD) leads the industry in performance and features for agricultural irrigation applications and is 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 Yaskawa iQPump1000 industry leading software is the only software designed specifically for ag irrigation and water pumping. Don't settle for software that was originally designed for controlling fans, conveyors, and HVAC systems!
- Outdoor-rated NEMA 3R enclosures – Rest assured that your drives will perform reliably, even in harsh conditions.



iQPUMP®1000
Intelligent Pump Controller

Frequency Drives

Valley VFDs come standard with numerous built-in protection features that not only ensure your pumping solution operates smoothly, but protect your investment if something does go wrong.

Protections include:

- Pump cycling
- Pressure feedback lost
- Pipe break detection
- Low/high pressure feedback detection
- Output phase loss
- Overload current limit
- Motor overload
- Minimum speed

See the full list of protection features at www.valleyirrigation.com/watermanagement



Valley Drive Connect™

Get the maximum benefit out of your variable frequency drive investment with Valley 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.

Drive Connect features include:

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

Valley Water Management Soft Starts

VWM soft starts are specifically engineered and built for agriculture applications. They are rugged, compact and reliable.

Benefits and features include:

- Solid state control modules that ramp starting current up slowly to reduce wear and tear on pumps and pipelines.
- Rugged, outdoor-rated NEMA 3R enclosures that can withstand even the harshest environments
- Directly compatible with Valley BaseStation3
- Available from 10-1,000 hp at 480V; medium voltage options also available
- Advanced motor protection features built into the soft start, including:
 - Over current
 - Restart delay
 - Load loss
 - Equipment ground fault detection
 - Phase loss
 - Overload protection
 - Coast down lockout



Premium Solutions Built for You

Every project is unique, with its own set of challenges. The experienced Valley Water Management team will custom-design your premium pump solution 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 integrate 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 irrigation design services that include reservoir sizing, pipeline design, pumps, valves and controls for a complete, efficient irrigation operation.



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.

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