

Valley® Product Catalog

RELIABLE | DURABLE | PRECISE | ADVANCED | RESPONSIVE



VALLEY 

The Leader in Precision Irrigation.

Invest in Your Future

Whether you're installing irrigation equipment for the first time, replacing an aging pivot or upgrading your current equipment, there's no question that it's a big investment – and a significant commitment. Determining exactly what you need is crucial to the way you farm. So how do you decide what to buy?

You want to make decisions that improve your yield and bottom line. Valley® Irrigation is here to provide you with the equipment and technology you need to achieve maximum productivity and profitability. No matter your field size or budget, we have the best irrigation solution for you. A solution that will last for generations.

Consider this:

- Nationally, buyers choose Valley nearly 2:1 over our nearest competitor.
- Valley pivots, corners and linears command the highest resale value in the industry, typically more than 25 percent higher than other brands.
- The Valley gearbox is the only irrigation gearbox manufactured in the USA and has three times the life of other gearbox brands, based upon standardized tests.
- Valley has the best warranty in the industry.
- Dealer support after the sale is critical to your investment, and Valley dealers lead the industry in sales, service training and parts availability.

We invite you to explore the Valley brand. We offer thousands of options and features for customizing your equipment, and we've outlined the highlights for you here. Then, visit our website – valleyirrigation.com – or your local Valley dealer to learn more about why Valley is right for your farm.



Why Growers Choose Valley

Valley has the most extensive dealer network and the most responsive, factory-trained technicians.

One of the most important decisions you will make is selecting a dealer. Your Valley dealer won't disappear when the ink is dry on the sales contract. He'll be there in the field with you when you need him.

Valley Irrigation Dealers:

- Undergo extensive product training
- Provide fast, reliable service
- Work on all brands of irrigation equipment

The Valley brand leads the world in precision irrigation and is the founder of the industry.

Valley Center Pivots, Corners and Linears:

- Outperform other brands under all field conditions in independent tests
- Chosen by more growers than any other brand
- Are precision engineered and customized for each individual field

Valley offers not only the best machine, but also the most innovative technology.

Valley Irrigation Technology:

- Offers the most advanced remote control and monitoring tools
- Features BaseStation3™, an industry-exclusive that provides unprecedented farm control
- Includes the AgSense® line of telemetry products



The Valley Value

RELIABLE
DURABLE
PRECISE
ADVANCED
RESPONSIVE

Valley Control Panels



ICON5

ICON1

ICONX

Valley offers a full line of easy-to-use control panels, including the new Valley ICON® series of smart panels. Whether you're buying a new pivot, upgrading your existing control panel or changing over from another brand of pivot, you have the advantage of operating an intuitive, full-color touchscreen interface. Our control panels are designed to withstand the most extreme temperatures, high humidity and transient voltage requirements. They provide you with uninterrupted performance and durability to keep your center pivots running year after year.

Valley designs control panels for all kinds of growers – from panels with the most advanced computer technology to basic, non-computerized options. This variety allows you to choose the best panel for your operation without sacrificing Valley field-proven technology.

Valley Control Panels

- Valley ICON10
- Valley ICON5
- Valley ICON1
- Valley ICONX
- AutoPilot Linear
- ClassicPlus
- Classic

Valley ICON® Series of Smart Panels

Valley ICON Model	Display	Edge-of-Field WiFi	AgSense® ICON Link™
 VALLEY ICON¹⁰	10-inch Color Touchscreen	Optional	Included
 VALLEY ICON⁵	5-inch Color Touchscreen + Soft-Touch Buttons	N/A	Included
 VALLEY ICON¹	Full Touchscreen Control with Remote Device	Included	Included
 VALLEY ICON^X	5-inch Color Touchscreen + Soft-Touch Buttons	N/A	Included

The ICON10, ICON5 and ICON1 displays fit the standard Valley modular control panel enclosure, so if you have a current Valley Pro, Pro2, Select, Select2 or ClassicPlus control panel, you can quickly and easily upgrade to Valley ICON.

Valley ICON Series Key Features



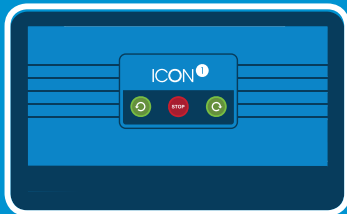
ICON10

- 10-inch, full-color touchscreen display
- Intuitive user interface
- AgSense Enabled – AgSense ICON Link installed standard*
- BaseStation3 compatible*
- Variable rate irrigation (VRI) capable
- Cable theft monitoring*
- Remote Edge-of-Field WiFi** option available through the ICON app
- Patented Valley Cruise Control™



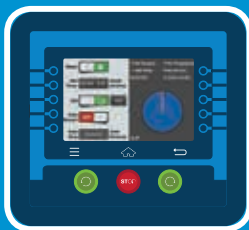
ICON5

- 5-inch, full-color touchscreen display
- Intuitive user interface
- Soft-touch buttons for feature selection and navigation
- AgSense Enabled – AgSense ICON Link installed standard*
- BaseStation3 compatible*
- Variable rate irrigation (VRI) capable
- Cable theft monitoring*
- Patented Valley Cruise Control



ICON1

- Remote access interface via Edge-of-Field WiFi**
 - No cell service or internet required
- Wireless display through tablet or smartphone
- ICON app available on the App Store and Google Play
- Cable theft monitoring*
- Patented Valley Cruise Control



ICONX

- Compatible with all major pivot brands
- Uses power and control circuits in the host panel and transfers control to the ICONX
- Full ICON control functions right at the pivot
- Intuitive user interface
- 5-inch, full-color touchscreen display
- AgSense Enabled – AgSense ICON Link installed standard*
- BaseStation3 compatible*
- Cable theft monitoring*
- Patented Valley Cruise Control

AgSense app available on the
App Store and Google Play



*Additional hardware or subscription required. **Limitations based on field conditions.

AgSense®

AgSense remote irrigation management products use digital cellular technology to remotely monitor and control irrigation equipment. The benefit of choosing AgSense goes beyond feature-rich products. Through the use of the AgSense App from your mobile device, you can gain access to all of your aggregated data, so you can put the information to work for you. And now, with AgSense ICON Link, the power of AgSense comes built-in with every Valley ICON panel.



Field Commander® Ultimate Precision Irrigation Package

This package combines several AgSense technologies into one kit for unmatched versatility in management of virtually all irrigation equipment, regardless of brand, age or current capabilities. Remotely monitor and control center pivots and pumps, along with monitoring flow, pressure and weather.

Field Commander

The Field Commander® is a GPS-driven, center pivot monitoring and control tool that provides real-time information and alarms to your cell phone, smartphone or computer.

- Works on any brand of pivot or vintage of panel
- Allows remote implementation of irrigation prescriptions
- Provides cable theft monitoring

ICON Link

AgSense ICON Link is a remote management module exclusively designed for the ICON smart panels. It provides full remote programming of control panel functions and monitoring of center pivot operations via the AgSense mobile app or through BaseStation3. The module mounts inside the cabinet, is delivered fully activated, and processes commands more than 10 times faster than the previous products. With a greatly expanded feature set, the ICON Link is the key to unlock the full potential of Valley ICON smart panels from anywhere in the world.*

CommanderVP®

The AgSense CommanderVP® provides full remote monitoring and control of your center pivot and control panel. A field-changeable cell modem makes it compatible with virtually all cellular providers around the globe, as well as preventing changing cell technology from making it obsolete.

Crop Link®

Crop Link® gives you the ability to monitor and control multiple farm devices, such as wells, flow, pressure and weather, giving you a better idea of what is going on in your field.

Aqua Trac

Aqua Trac gathers data from soil moisture probes, allowing you to easily implement irrigation decisions based on soil profile moisture content from your computer or smartphone.

*Firmware upgrade or Valley parts kit may be necessary.



Remote Management

Peace of mind and time with friends and family are important to you. Control technology options from Valley allow you to monitor and control your irrigation equipment from anywhere, saving you money and giving you back time. That's time you can spend with your loved ones or doing other work on the farm, while still knowing that your center pivots are running when they need to.

Valley BaseStation3™

Valley BaseStation3 is the most comprehensive, flexible and state-of-the-art remote irrigation management product available. This innovative technology gives you unprecedented control over your operation. Select cellular, data radio or Internet protocol to manage and control all your irrigation equipment from any computer, laptop, tablet or smartphone. And now, BaseStation3 can come built-in with any Valley ICON panel.

Native apps

BaseStation3 offers native iOS (iPhone®, iPad®) and Android apps for total mobility. You can check out the app for free with our Demo mode.

Download the BaseStation3 app from your app store and click on the Demo button. Experience the bright, clean layout, the intuitive design and the powerful control our app offers. Explore an interactive simulation of a BaseStation3-connected farm. See for yourself what you can do with BaseStation3 and how easy irrigating can be.



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Beyond the Ordinary

- Option of no monthly or annual fees
- Google Maps™ integration
- Destination ETA calculates how long it will take a machine to reach a specific point in the field
- Soil moisture view shows soil moisture content by layers
- Operational view allows you to see what each machine is doing
- Advanced reports and data exports (applied water, equipment, maintenance, etc.)
- End gun templates for quick and easy setting changes
- Sector and sequential program control
- Ability to customize for your operation

Web-Based Interface

- Provides alert notifications and instant, at-a-glance status updates
- Intuitive and easy to use
- Expands to grow as your operation grows
- Allows remote, multiple and simultaneous users
- Tiered levels of access and security for designated users, including administrator, operator, monitor only and contact only
- Multiple farm and field management options

Valley Irrigation Exchange®

Growers are adopting more technology applications to manage their operations. Multiple software systems increase the complexity of farm management and create streams of data that are difficult to integrate. Valley Irrigation Exchange® solves these problems by making it easy to share data between management systems, allowing you to make informed, data-driven decisions about water and nutrient management.

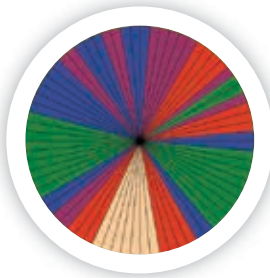
- Integrate precision irrigation data with other precision ag data
- Share irrigation data with your agronomist, seed companies, equipment manufacturers and other partners
- Execute recommendations developed in other partner software programs
- Manage and monitor your irrigation equipment from within other farm management systems
- Control your data and who you share it with
- *Available exclusively with BaseStation3*



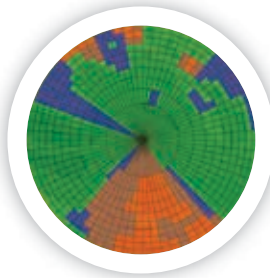
Precise Water Application

Variable Rate Irrigation (VRI)

Variable rate irrigation (VRI) from Valley is ideal for fields with multiple soil types and varying topography. With a combination of hardware and software, Valley VRI allows you to adjust the water application depth to optimize every acre and maximize yield potential. Because Valley understands all fields are different, we offer three VRI options: Speed Control, Zone Control and Trimble® Irrigate-IQ™.



VRI-S



VRI-Z



Trimble® Irrigate-IQ™ VRI

Trimble Irrigate-IQ VRI

- Control individual nozzles to apply the right depth in the right spot
- Work with your trusted advisor to create VRI plans that compensate for variations in soil properties, vegetative health, topography and precipitation history within each field

VRI Speed Control (VRI-S)

- Divides your field into a maximum of 180 sectors
- A customized, uploaded VRI prescription speeds up or slows down your center pivot to achieve the desired application depth across each sector

VRI Zone Control (VRI-Z)

- Your field can be divided into more than 5,000 zones
- A customized, uploaded VRI prescription pulses sprinkler control valves along the center pivot zones to achieve desired application depth in each zone
- Can control on/off for areas that don't need to be irrigated such as canals, ditches and wet areas

Trimble Irrigate-IQ Uniform Corner

- Achieve a uniform application in areas covered by the corner arm
- Optimize water use by avoiding over- or under-watering
- Minimize the risk of a reduced flow rate through accurate nozzle control
- Reduce runoff and leaching
- Improve crop quality and yield



Correct water application design for your field is crucial to your machine's performance. You can depend on your Valley dealer to ensure you get the proper sprinkler package based on climate, soil type, crops and topography.

- Precise, computerized sizing and spacing of nozzles ensure application uniformity and efficiency
- Low-pressure sprays operate as low as 6 PSI, saving horsepower, energy and money
- Application efficiencies can reach 95 percent
- Additional sprinkler options include end guns, sprinkler drops, boombacks and part circle sprinklers



Valley

Authorized Sprinkler Providers

Valley Sprinklers

The Valley Low-Energy Nozzle (LEN) fixed spray, with its drop-in, color-coded nozzle, and the Valley All-Range pressure regulator are economical and efficient options for your sprinkler package needs. The desired placement of your sprinklers can be achieved by various Valley applications, which may include drops, boombacks and other alternatives.



Nelson

Nelson® Irrigation

Nelson® offers a full line of water application products designed for your specific field conditions and crops that result in higher yield and quality at harvest. Innovation in irrigation by Nelson created Rotator® technology on drops and Big Gun® sprinklers.



Senninger

Senninger® Irrigation

Under the concept of "Low Pressure – High Performance," Senninger® products ensure water is distributed uniformly and with low application intensity. With a variety of designs available, you can select the product best suited to your individual field, crop and installation needs.

Updated Sprinkler Package

The most important investment you can make.

- Exclusive VChart software can design sprinkler packages for all brands of irrigation equipment
- Valley dealers are highly trained experts in water application and conservation
- New, low-pressure sprinkler technology provides efficiency and uniformity, and may reduce energy costs
- Droplet sizes designed for minimum wind drift
- New pressure regulators ensure proper flow from each nozzle

8000 series Center Pivot



As the worldwide leader in precision irrigation, Valley knows one size does not fit all. That's why we offer the broadest range of machines in the industry. Every center pivot is customized for the field it serves, but every pivot boasts special features that enhance its durability:

- Hot-dip galvanized steel
- Four-leg drive unit with braces
- Welded sprinkler coupler
- Full wrap-around weldments
- Forged truss rod heads
- Polyurethane flange gaskets
- Evenly loaded spans
- Full-length, properly designed pipe for each span length, no short extender pipes

The top-of-the-line, Valley 8000 series center pivot is precision engineered for long, durable life and field-tested to handle the most demanding terrain and toughest operating stresses. Take advantage of the benefits this machine offers, such as the longest span in the industry and Bender and corner options, to ensure maximum field coverage.

Valley developed a standard, accelerated life cycle test based on past field performance for Valley and competitive spans, so you can see how they match up. The test subjects the spans to conditions experienced on rough ground with large tires. The span with the longest test life can be expected to last the longest in similar field conditions.

The test results were certified by an independent, professional engineering consultant and prove Valley spans on average last five to six times longer than our closest competitors' spans.

8000 series Specifications

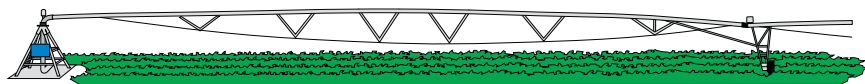
- 6 5/8", 8 5/8" or 10" pivot point options
- 6", 6 5/8", 8 5/8" and 10" pipe diameter options
- 2, 5 or 7.5 HP booster pump
- Maximum machine length of 24 spans covering 2,800'
- Span lengths of 115' to 225'



Structure Options for Different Crop Heights

Standard Profile Drive Units

- Clearance: 9' 7"



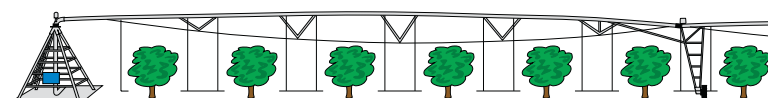
Low-Profile Drive Units

- When standard clearances are not required
- Low-Profile clearance: 6' 1"

*Actual clearances in the field vary based on wheel track depths, tire size, span lengths, field terrain and operating conditions. The values shown here are typical for a 180', 6 5/8" span on level ground with 11.2-24 tires.

High-Profile and Ultra-High Profile Drive Units

- Provide increased crop clearance
- High-Profile clearance: 12' 11"
- Ultra-High Profile clearance: 15' 7"



7000 series Center Pivot

Precision engineered and developed as a cost-effective irrigation solution for growers looking for choices, the Valley 7000 series is second only to the industry-leading Valley 8000 series in reliability, durability and overall performance. The 7000 series is available with the patented, Made in the USA Valley gearbox or the VS-7000 gearbox.

7000 series Specifications

- 6 5/8" or 8 5/8" pivot point options
- 6" and 6 5/8" pipe diameter options
- 2 or 5 HP booster pump
- Maximum machine length of 2,000'
- Standard, low and now available in high profile
- Span lengths from 115' to 205'
- Available as a towable machine





5000 series Center Pivot

The Valley 5000 series center pivot provides a cost-effective irrigation solution for smaller fields, up to 60 acres. Created specifically for production agriculture, this durable machine comes with the reliability and aftermarket support that only Valley dealers can provide. The Classic control panel is available for the 5000 series basic operations.

5000 series specifications:

- 5" diameter pipeline
- 820' maximum machine length
- 108" outlet spacing
- 112.5' to 202.5' span lengths
- Single-phase power option
- Hook-and-eye joint

Gain Additional Acres

Every acre of your land is valuable, so Valley offers durable products that cover corners, go around obstacles and even irrigate land behind buildings. With Valley corners, Benders and DropSpan™, you can pick up additional acres and earn extra income from land you already own.

VFlex™ Corner

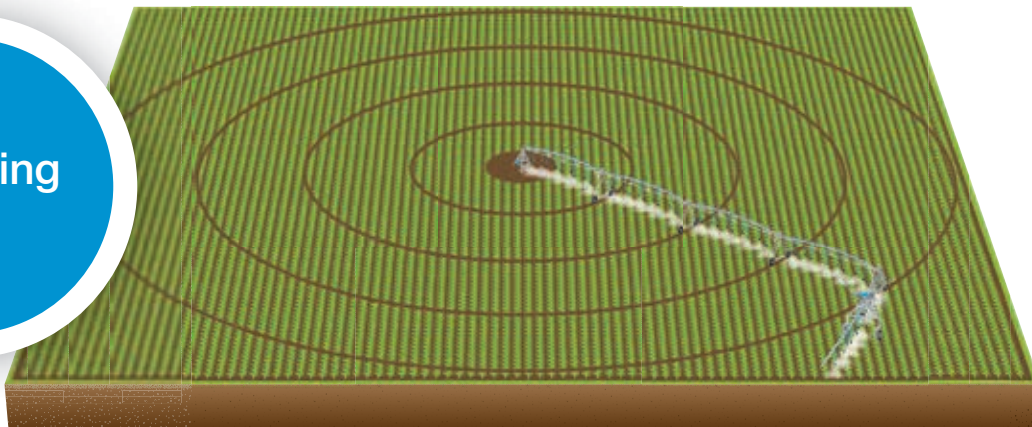
The VFlex™ Corner uses the most modern structural components while retaining simple start-stop controls. The most customizable corner on the market, it is designed to fit the exact requirements of your field. Its newest features include Single Frequency GPS, a high profile option, Corner Dual Drive and Terrain Compensation.



Valley Precision Corner®

The Precision Corner® is our patented, computerized corner that provides extreme precision in the application of water, chemicals and fertilizers. It is available with our patented Water Utilization Package™ that allows you to extend faster and irrigate additional acres.

Valley corners give you the ability to bring the whole field into production.



Valley Benders

A Valley Bender is an option added to your center pivot that wraps around whatever is in its way: the outer portion of your pivot continues moving while the inner portion is stopped by fences, trees or other obstacles. An exclusive speed-up timer increases the speed of the center pivot to reduce overwatering while bending. Multiple Benders can be installed on one pivot.

Bender30™

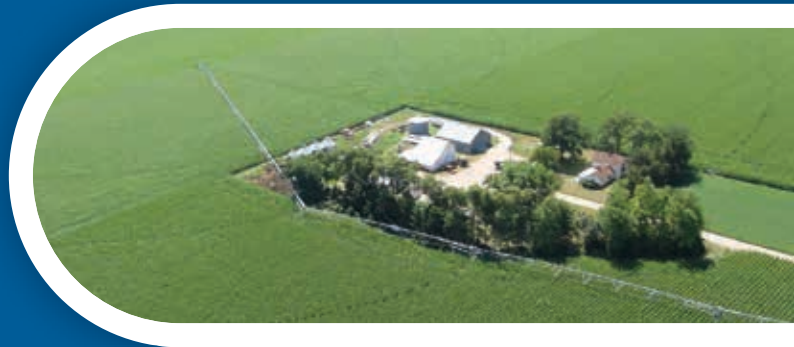
- Bends up to 30 degrees in either direction
- Uses existing structural components – easy to retrofit

Bender160™

- Bends up to 160 degrees in either direction
- Two end gun control cams built-in to operate your end gun while bending. No need for a separate GPS end gun control.

Bender Anchor

Only Valley offers an anchor for its bending drive units. The anchor package provides the structural strength needed to use Valley Benders on longer machines, as well as on rough or rolling terrain. Now you can bend your machine up to 2,000 feet to irrigate even more acres.



Valley DropSpan™

With the Valley DropSpan, you can drop the outer spans of your center pivot or linear, so the rest of your machine can irrigate acres behind barriers. The spans can be dropped and reattached by one person without tools in less than 15 minutes.

- Simple electrical connector manages span cable and control logic; no rewiring needed
- Simple winch and batten leg system to drop and reattach outer spans
- Stop switch automatically aligns base machine with dropped spans for easy reattachment

Other Machine Options

Towable Pivots

Valley towable pivots provide another option for irrigating production ag fields up to 1,500'. Available for the 8000 series, 7000 series and 5000 series, these allow you to irrigate multiple fields with just one machine. Each pivot can be towed from one field to another in less than an hour. The Valley towable gearbox includes all of the features and benefits of the patented, Made in the USA Valley gearbox. A lower-cost gearbox option also is available.

4-Wheel E-Z Tow™

- Handles a wide range of field sizes
- Fixed wheels standard
- Optional pivoting wheels easily rotate to tow in any direction

2-Wheel E-Z Tow

- Ideal for part-circle fields or multi-directional towing
- Allows for up to five spans
- Comes standard with tongue hitch design

Skid Pivot

- Low-cost option best used for infrequent towing
- Designed for any size towable unit
- Great option on long, fixed pivots to relieve stresses caused by cold winters

Small Fields

Single Span Engine Drive

This single span pivot is ideal for irrigating small fields, up to 6 acres, where electric power is not readily available. All sprinkler packages are available for efficient, low-pressure water applications to provide significant energy, labor and water savings.



4-Wheel E-Z Tow



2-Wheel E-Z Tow



Valley Two Wheel
Hose Feed



Valley Two Wheel
Ditch Feed



Valley Universal

Linears

As a grower you need to consider anything that can maximize your yield and increase your profitability. Consider this: Valley linear machines provide benefits not found in other irrigation equipment, including increased coverage and flexibility. Linear equipment is seen as one of the most highly effective methods of irrigation, typically irrigating 92 to 98 percent of a square or rectangular field. The AutoPilot Linear control panel allows your linear to automatically perform functions that were previously specific to Valley center pivots. The AutoPilot measures the lateral position and direction of travel of the linear, allowing functions to be easily programmed.

Valley Rainger™

Based on a common cart platform, the Valley Rainger™ provides versatility by taking water from a ditch or a hose. Customize the cart by adding options such as chemigation and fertigation tanks.

Valley Rainger Swing-Around

The Ranger Swing-Around rotates 180° around the cart to irrigate the opposite side of the field. You can double the amount of land irrigated with one machine, saving you time and money.

Valley Universal

Unlike other swing-around linears, the Valley Universal can automatically switch between linear mode and pivot mode. It's available as a hose drag or ditch feed.

Valley Two Wheel Hose Feed

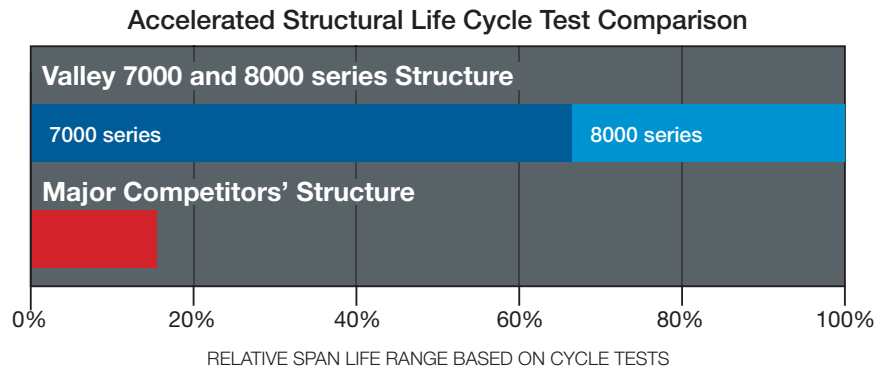
This versatile machine can operate as a standard linear, towable or swing-around. It's an ideal conversion option for fields currently irrigated by flood, drip or solid set.

Valley Two Wheel Ditch Feed

This linear can use either permanent earthen water delivery infrastructures or earthen ditches installed annually. A flexible suction inlet fits nearly any functioning earthen ditch, keeping investment costs low. It can be towed or swung around to cover more area.

Durable Valley Structure

From pivot point to end tower, the entire Valley structure is precision engineered, constructed and field-tested to handle any operating stresses your machine may experience, including rough terrain and deep furrows. The superior structural design also allows Valley to offer the longest spans in the industry. That's why more than 50 percent of pivots in use today are Valley pivots, and why Valley pivots continue to deliver a significant resale premium over competitive brands. We build the strongest, most durable spans in the industry, and we have the certified test data to prove it.



Valley Spans

When it comes to investing in irrigation equipment, structural life is critical. You're making a long-term investment that is expected to last for many years without costly repairs. Valley spans are precision engineered to have the strength you need to achieve maximum productivity. We've built our reputation by providing the most durable and longest-lasting equipment available in the market.

- Pipe diameters of 5", 6", 6 5/8", 8 5/8" and 10"
- Span lengths from 115' to 225', including the industry's longest span
- Overhang options up to 100'
- PolySpan® pipeline available for corrosive conditions



Fixed Pivot Point Options

6 5/8" Pivot Point

- Designed for pivots up to 1,500' or nine spans
- Low and standard profile

8 5/8" Pivot Point

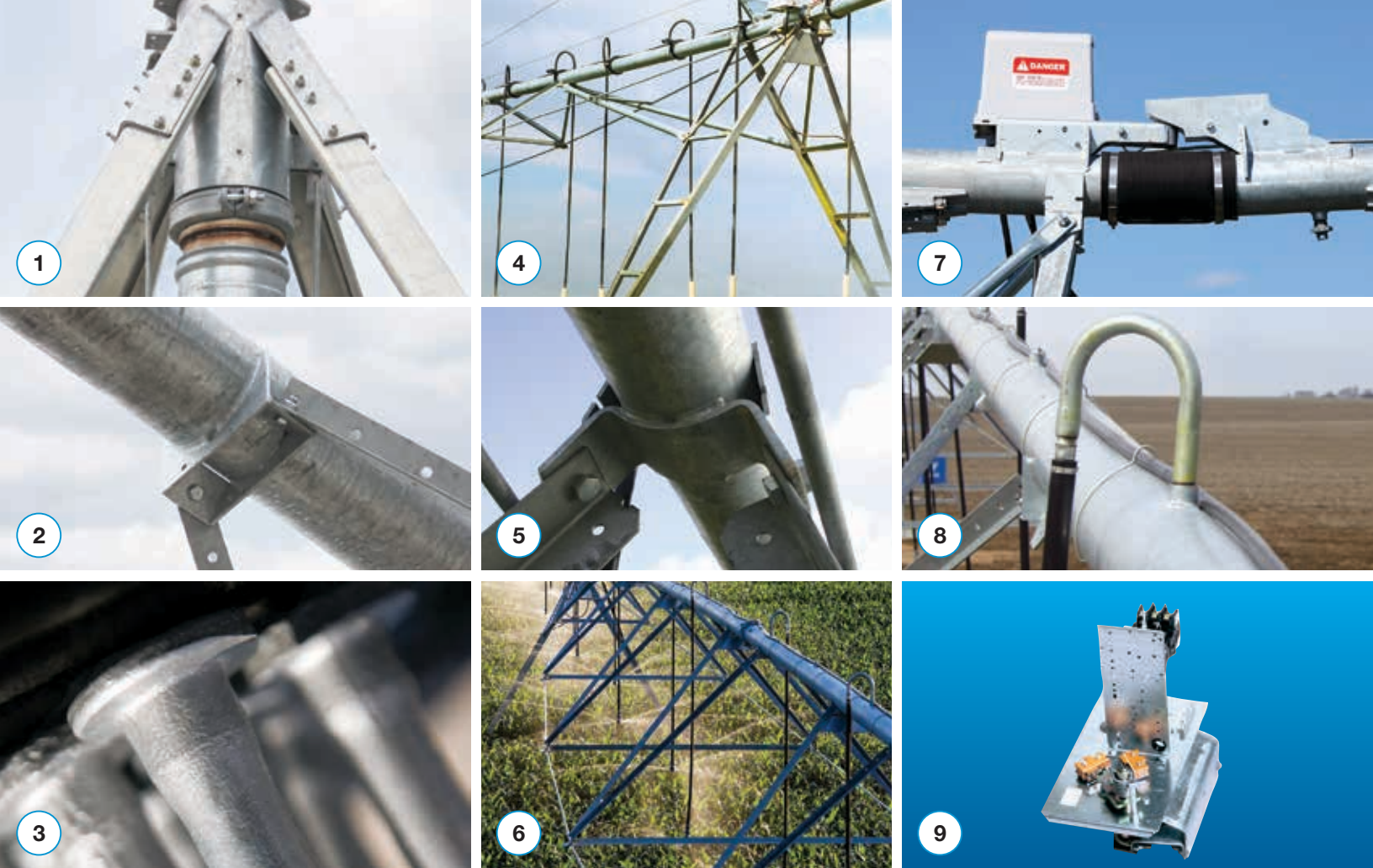
- Designed for pivots up to 2,000' long
- Heavy duty option available for machines up to 2,800'
- Low, standard and high profile

10" Pivot Point

- Designed for pivots up to 2,800' long
- Standard and high profile

New lower elbow and riser pipe options available to integrate:

- Seametrics® flow meters
- Nelson valves
- Clemons filters



Special features that enhance the durability of Valley machines.

1. TRIPLE LIP SEAL AND STAINLESS NIPPLE

Provide long, leak-free life at low and high operating pressures.

2. LATERAL AND RADIAL WELDS

Spread loads over wide area for maximum durability.

3. TRUSS RODS

Large transition radius and uniform loaded rod heads mean a lower concentration of stress and longer machine life.

4. DRIVE UNIT LEGS

Four braces on each side ensure stable operation in hilly conditions.

5. WRAP-AROUND LEG ATTACHMENT BRACKETS

Cradle the pipe to create added strength. Heavy-duty gussets eliminate pipeline twist.

6. OPTIMIZED SPAN

Offers more machine strength and stability as a result of evenly loaded truss angles and hot forged truss rods.

7. BALL-AND-SOCKET HITCH

The single-piece, forged steel ball ensures smooth span movement in all directions, minimizing stress on the pipeline for longer machine life.

8. SPRINKLER OUTLET

The welded coupler strengthens the pipeline around the water outlet, minimizes pressure loss and provides better support for the sprinkler package.

9. TOWER BOX

Galvanized steel base construction with stainless steel shaft and nylon bearing assembly ensures long life.

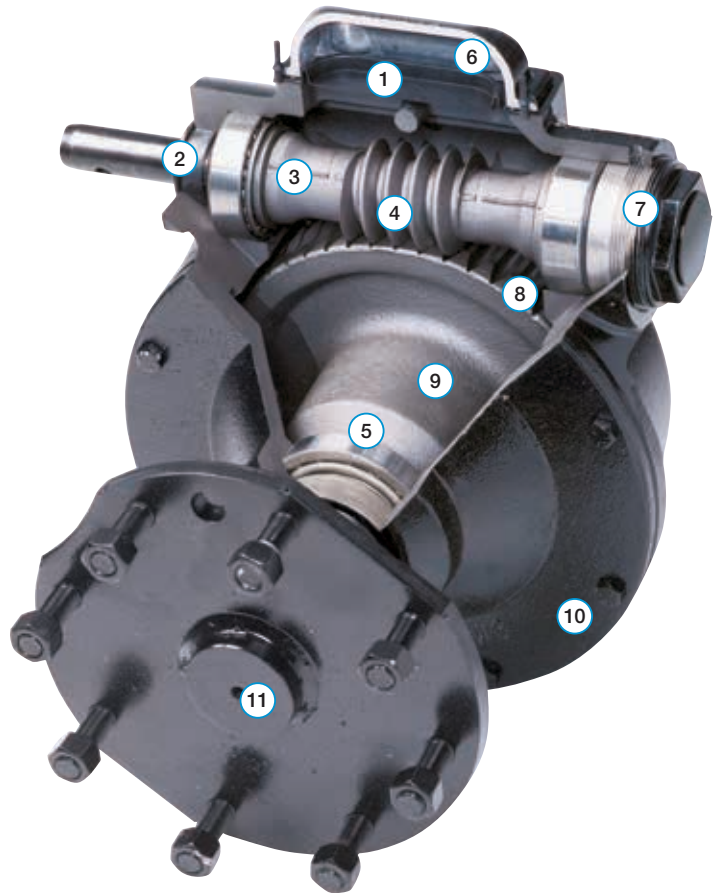
Reliable Drive Train

The Valley Gearbox

You know the gearbox is the heart of your center pivot. If the gearbox isn't working, the center pivot isn't working.

That's why Valley Irrigation is the only center pivot company in the world that manufactures its gearboxes in the USA.

Rather than buying the lower-cost gearboxes from overseas that our competitors use, the patented Valley gearbox is manufactured in Nebraska using only U.S. vendors that meet our quality standards. Before it is shipped to you, each gearbox is extensively tested for functionality and durability. You can trust the Valley gearbox to provide you with long, trouble-free, economical equipment life.



1. **Large capacity rubber diaphragm** – expands with heat and pressure to minimize water condensation.
2. **Input and output bearings** – American-made and case-hardened to provide the highest quality and load rating available in the industry.

3. **Worm gear** – high-strength ductile iron provides significantly longer wear life than steel and prevents gear tooth wear.
4. **Tooth design** – industry-exclusive 25° tooth angle provides 40 percent more strength, longer life and better reliability in tough conditions compared to normal 14.5° tooth designs.
5. **Largest bull gear neck and keyway** – for extra strength in a critical load-bearing area.
6. **Expansion chamber** – cap made of corrosion-resistant cast aluminum; rubber diaphragm allows oil to expand and contract during operation. Vented cap prevents pressure buildup and prevents seal from leaking.
7. **Threaded endcap** – allows accurate bearing preload to ensure long bearing life.
8. **52:1 gear ratio** – full recessed tooth design keeps oil between engaged gears.
9. **Bull gear** – high-strength cast iron provides highest load capacity in the industry and longest life. Optional bronze gear is available for extreme conditions.
10. **Multi-viscosity gearbox oil** – exceeds 85W-140 GL5 oil for long gear wear under extreme load conditions.
11. **Longest output shaft (steel)** – exclusive to Valley gearboxes. Provides extra clearance between gearbox and wheel flange to reduce mud buildup, which reduces seal damage and extends gearbox life.

Exclusive Tire Rims

**VALLEY
GEARBOX**



Special Valley offset rims compensate for the longer shaft and move the center of the tire closer to the gearbox bearing. This reduces the overhung load and increases the bearing life.

**COMPETITORS'
GEARBOX**



Center Drive

There is no question that Valley has the most reliable drive train in the industry. The Valley center drive is built stronger, lasts longer and uses less energy than other irrigation drive motors. That's why we back it with the best warranty in the industry – eight years full parts and labor. Plus, we offer a wide selection of center drive options to match your farming practices.

Superior Features for Added Benefits:

- Case-hardened steel helical gears mean more tooth contact than spur gears for longer life, more torque capacity and smoother power transmission.
- Finned aluminum housing for cool-running efficiency. Operates at temperatures 20° F (11° C) lower than competitive motors, doubling insulation life and increasing motor life.
- Valley-exclusive coating applied to internal surfaces to prevent corrosion.
- Internally vented junction box prevents moisture and contaminants from corroding the wire connections.
- Stator can be replaced independent of rotor

Valley X-Tec™

The new Valley X-Tec™ drive delivers the ultimate combination: top-performing speed for quick irrigation cycles and dynamic power to take on even the toughest terrains. The patented alignment technology and robust DC motor keep the pivot moving at a smooth and consistent pace, even over varied terrain.

Valley X-Tec utilizes FastPass™ technology to operate up to two times faster than a standard, high-speed AC center drive motor. The advanced DC motor design provides constant torque throughout a wide speed range, providing growers with unmatched control and additional options to maximize crop yields.



Valley FastPass Technology

Typical Seven-Tower Machine Comparison



Valley X-Tec Drive

4 hours total to
finish irrigating a field



Standard AC Drive

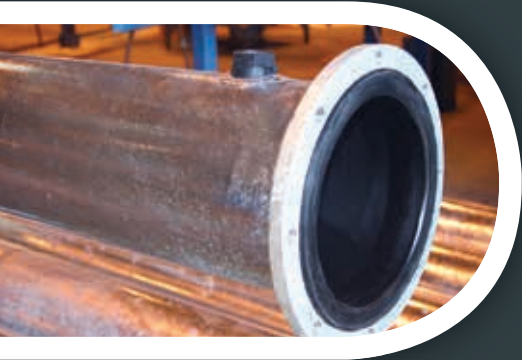
8 hours total to
finish irrigating a field

Limitations based on field conditions

Powerful Features:

- Full torque at all speeds
- Patented, consistent precision alignment
- Low inertia rotor
- Electric braking technology
- Robust design provides lasting durability
- Soft starts allow for smooth acceleration of the motor

Corrosion Solutions



PolySpan®

- Patented design resists effects of acidic, alkaline, corrosive and saline waters
- Excellent, prorated, 20-year pipeline corrosion warranty with unconditional replacement due to corrosion during the first 10 years
- Manufactured in the USA
- Available on 6 5/8" and 8 5/8" pipe for pivots, corners, towables and linears



Galvanized Steel

- Extends machine life in a variety of water conditions
- Prorated, 20-year corrosion warranty
- Available for all Valley equipment

Pipe Options

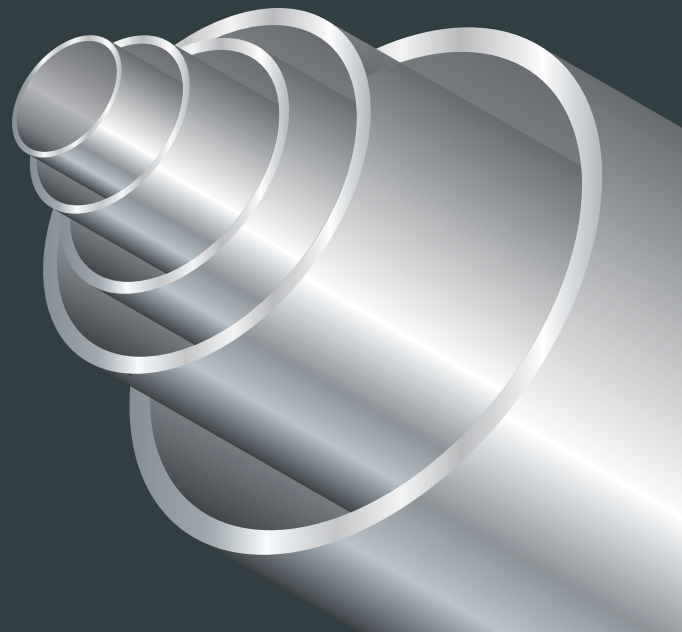
- Choose from 6", 6 5/8", 8 5/8" and 10" pipe diameters to minimize pressure loss and horsepower requirements
- A 5" pipe option is available for the 5000 series

Repiping – A Low-Cost Solution

Repiping is the most economical way to significantly extend the life of your machine.

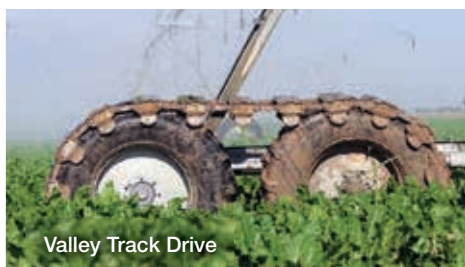
Valley repiping options:

- PolySpan for any corrosive water, crop protection and soil treatment chemicals
- Galvanized steel for a variety of water conditions





Valley 3-Wheel Drive



Valley Track Drive



Valley Articulating 4-Wheel Drive

Tire & Flotation Solutions

Stuck pivot towers can cause costly downtime. Valley flotation options can reduce wheel track depth, increase traction and keep your machines moving through your fields. Different fields require different flotation options, so whether your terrain is rough or your soils are sandy, loamy or heavy, your Valley dealer can determine what's right for you.

Flotation Options

- Valley 2-Wheel Drive
- Valley 3-Wheel Drive
- Valley Track Drive
- Valley Articulating Track Drive
- Valley Articulating 4-Wheel Drive

Valley Revolution™ Airless Tires

The Valley Revolution™ features cutting-edge airless tire technology that eliminates problems with flats. Its well-proven “aperture” design is similar to tires used on forklifts. The compliant rubber tire provides cushioning over rocks, ridges and other field obstacles to prevent gearbox overloading, and it won't slip on rocks or other hard objects. The non-directional tread design reduces wheel tracking, and the tapered tread lugs feature specially shaped sides to maximize tread cleanout in muddy conditions. The Revolution airless tire is a Valley exclusive.

Non-Directional Irrigation Tires

Firestone Champion Hydro ND

Valley is the only center pivot irrigation company to offer these revolutionary tires. Firestone designed the Champion Hydro ND specifically for irrigation machines to increase traction and lessen rutting. The patented, non-directional tread design has equal traction in forward and reverse directions, so you no longer need a front and rear tire. Available now in 14.9-24 and 11.2-38 sizes.

Water Management Solutions



Valley Water Management

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 Valley dealer can custom design a high-efficiency pumping solution to meet your needs.

- Maximize irrigated acres based on available water supply
- Use the latest in efficiency technology to minimize operating costs
- Integrate pump stations, controls and telemetry

Valley Water Management also provides site evaluations and complete project engineering that can include reservoir sizing, pipeline design, pumps, valves and controls.

CES

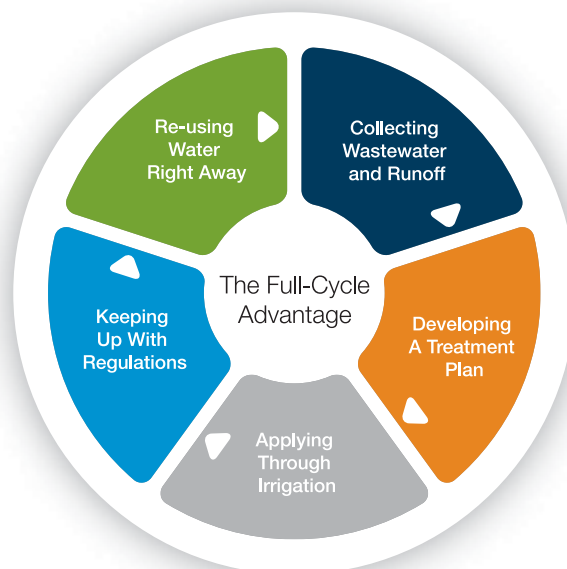
Cascade Earth Sciences (CES), a Valmont® Irrigation company, is an experienced consulting firm that provides comprehensive solutions for waste management and environmental problems. CES is uniquely qualified to develop, design and implement water management strategies that encompass water and energy efficiency, environmental impact, financial stability and profitability.

Water Supply Issues – well design, aquifer studies, treatment systems, dams, fish screens and water rights

Consulting and Design – engineering, hydrogeology, soils, agronomy, construction management and contracting

Data Management – Water Sentinel® data management software provides detailed reports and analysis for irrigated agriculture (water, climate, soils, crops, etc.)

Wastewater – reuse, permitting, monitoring, reporting and design



For more information, visit
cascade-earth.com



Conversions

Gearbox and Center Drive Conversion

- Significantly improve reliability and extend the life of your machine
- Minimal investment for maximum improved performance
- 8-year/8000-hour drive train warranty for complete conversions
- Complete and partial conversions available, including oil hydraulic conversions
- Almost all pivot brands can be converted

Tower Box Conversion

- Substantially reduce electrical shutdowns on older pivots
- High value for a minimal investment
- Proven reliability and durability on non-Valley pivots
- Almost all pivot brands can be converted

Conversions and GPS

Global Positioning System (GPS)

We offer two GPS products to enhance your farm operation: GPS Position for center pivots and linears, and GPS Guidance for corners and linears.

GPS Position

- Allows you to know exactly where your center pivots and linears are all the time
- Applies water more accurately, offering higher yield potential and lower input costs

GPS Guidance

- Eliminates the need for below-ground, above-ground or furrow guidance options
- Your dealer can easily reprogram the guidance path with the Valley mapping tool to match farm practice or field boundary changes



Trusted Partner

Putting the grower first is not just a slogan at Valley, but part of our culture. When you purchase a Valley, you are not just buying the best irrigation equipment available, you are buying a dedicated team to support you after the sale.

Fast Service

Servicing All Brands

Since the mid-1950s, more than 50 irrigation equipment manufacturers have come and gone. But it's no problem if you have an "orphan" machine. Valley dealers are trained to service and install Valley parts on most other pivot brands. Our goal is to keep your equipment moving and doing its job – enabling us to earn your trust and your business, day after day.

Valley Parts Availability

Valley invests in five factory-owned parts distribution centers to support your needs and provide fast, reliable service. These centers, along with your local dealership's extensive inventory, ensure that you have parts when you need them most.



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.

valleyirrigation.com

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