

Valley®

Center Pivots

RELIABLE | DURABLE | PRECISE | ADVANCED | RESPONSIVE



VALLEY 

The Leader in Precision Irrigation

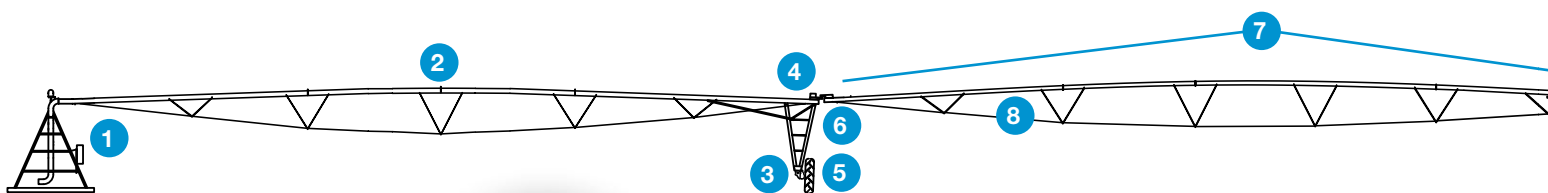
Durable Valley® Structures De

When making decisions that affect your yields and bottom line, look to Valmont® Irrigation to provide the strength you need to achieve maximum productivity. Going head to head with the competition, Valley® machines consistently outperform when exposed to a wide range of loads simulating the everyday rigors faced in the field. These include moving through the field, going over crop ridges, and in and out of field tracks.

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

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

The relative life ranges for both Valley and the competition were increased +/- 15% to account for span variability.



1 Field Flexibility

- Customized to fit your field conditions, a Valley can be configured as a pivot or a linear



2 Pipeline Flexibility

- Long-term value with the greatest versatility



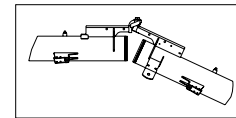
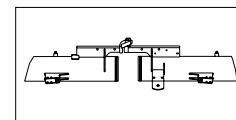
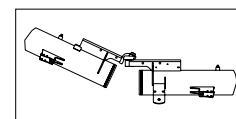
5 Drive Unit Braces

- Balance design for uniform loads on both sides of the drive unit
- Strength and ability to handle rough terrain



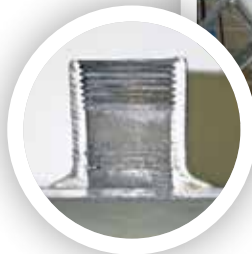
6 Ball and Socket

- Allows movement in all directions, which minimizes pipeline stress
- Reduces pressure loss
- Forged ball for increased strength



9 Welded Couplers

- Large number of threads on each coupler
- Thicker cross section for long-term life
- Provides strength to support all sprinkler options



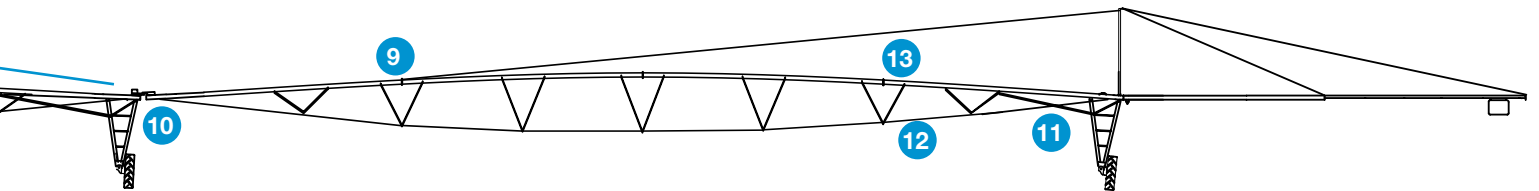
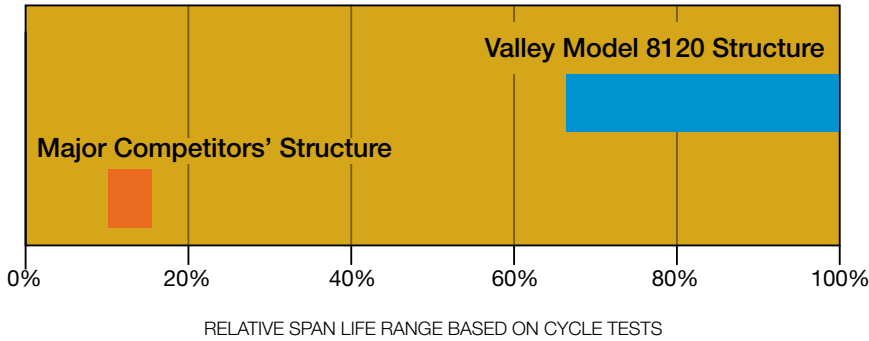
10 Diagonal Braces

- Triangular shape for rigid strength, preventing legs from bending
- Ties legs together to act as one large beam



Designed for Long Life

Accelerated Structural Life Cycle Test Comparison



3 Unitized Base Beam

- Welded gearbox mounts transfer span weight and wheel torque directly to the drive legs



7 Uniform Crown and Deeper Trussing

- Reduces truss rod loads
- Reduces compression loads on the pipeline
- Design offers unmatched performance and durability
- Short extender pipes are not used to achieve special lengths

11 Tower Supports

- Attaches directly to the pipeline
- Transfers drive unit loads to the pipeline and trussing
- Reduces span roll, enabling the drive unit to remain perpendicular to the pipeline for improved alignment
- Improved rough ground capability



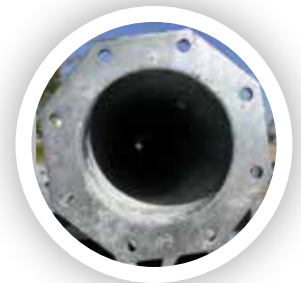
4 Four Legged Design

- Design distributes the load over a wider section of pipe
- Wrap-around brackets used to distribute the load over a larger area around the pipe, along with attaching the pipeline to the legs



8 Flange

- Eight bolts for closer spacing to increase strength
- Thicker flanges to prevent bending



12 Forged Truss Rods

- Carry the weight of the span and water
- Valley truss rods have a larger radius for longer life and elimination of weld problems



13 Gussets

- Provides improved slope capability, reducing span roll along with improving alignment on rolling ground



Valley® Center Pivots





From pivot point to last span, a Valley_® structure is engineered, constructed, and field-tested to handle the operating stresses your machine may experience. Valley structures stand up to the toughest loads produced by rough terrain, deep furrows and long-span machines. No wonder Valley pivots command the highest resale value in the industry.

Exclusive options:

- Corners
- Flootation choices
- High and ultra-high profiles
- Longest span at 72 meters (236')

Model 8120 Specifications

- 168 mm, 219 mm and 254 mm (6 5/8", 8 5/8" or 10") pivot point
- 127 mm, 168 mm, 219 mm and 254 mm (5", 6 5/8", 8 5/8" and 10") pipe diameters
- 2, 5 or 7.5 HP booster pump
- The Model 8120 can accommodate a field up to 853 meters (2800')

When it comes to irrigation equipment, Valley is the brand chosen most often. Valley-manufactured gearboxes and patented PolySpan[®] pipe are just two reasons Valley is superior to all other brands, and independent lab testing proves it. When you choose Valley, you choose the best. Valley...*The Leader in Precision Irrigation™*.

Most Reliable Drive Train

- Valley wheel gearboxes are the only brand of pivot gearboxes made in the USA



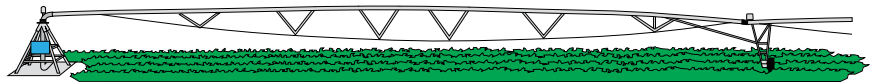
Structure Options for Different Heights

Standard Profile Drive Units

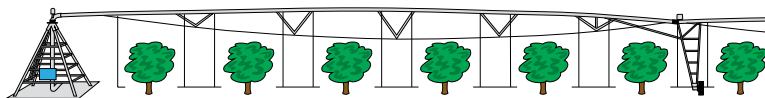
- Clearance: 2.8 m – 3 m (9' 4" – 10' 0")

Low-Profile Drive Units

- When standard clearances are not required
- Clearance: 1.85 m – 1.95 m (6' 2" – 6' 5")



*Actual clearances in the field will vary based on wheel track depths, span lengths, field terrain and various operating conditions.



High-Profile and Ultra-High Profile Drive Units

- Provide increased crop clearance
- High-profile clearance: 3.9 m – 4 m (13' 0" – 13' 3")
- Ultra-high profile clearance: 4.9 m – 5 m (16' 3" – 16' 6")



Smaller Field Pivots

Valley multi-span pivots for smaller fields share the same high quality design and performance as all the other Valley products. Whether you are looking for a lighter machine to minimize wheel tracks or need a solution to cover 25 hectares or less, Valley has the machine for you.

Multi-Span Pivots

- Reliable Valley gearboxes and drive train
- Choice of control panels
- Most durable structure in the industry
- Same available options as the Valley large field machines
- Uses the 127 mm (5") pipeline

5" Pipeline

- Reduced running weight
- Span lengths: 37,6 m - 66,4 m (123' - 217')
- Available on Single Span Engine Drive, Single Span Spinner™ Drive, multi-span pivot and two wheel linears



5" Model 8120



Single Span Engine Drive

Single Span Pivots

Valley® Single Span Pivots

Valley Single Span Pivots are ideal for small holding farmers with limited access to electricity. Valmont Irrigation now offers the option of water- or gasoline-driven machines which are low maintenance and easy to use. When field conditions demand the best, but infrastructure does not allow for electric service, choose the Spinner™ or Engine Drive.

Benefits include:

- Can run without electrical components
- Easy to maintain
- Available as a tow or non-tow
- Cost savings on operation and infrastructure
- Field coverage beginning at 2 hectares (5 acres)
- Application of crop protection products

Single Span Spinner™ Drive

- Hydraulically powered with irrigation water
- 2% maximum slope
- Standard pressure requirement (2.8 bar/40 PSI)
- Low maintenance

Single Span Engine Drive

- Gasoline powered
- 10% maximum slope
- Low pressure requirement (1 bar/14.5 PSI)
- Variable speed to control application depth



Fixed Pivot Points

The Valley pivot point options are built for strength and stability. Each pivot point comes standard with a full set of braces on all four sides and a corrosion-resistant sleeve to allow smooth rotation within the riser seal. With varying options you can be sure to find the right pivot point to fit your operation.

168 mm (6 5/8") Pivot Point

- Designed for pivots up to 457 meters (1500') long
- Available in low and standard profile heights
- Fits competitive pads

219 mm (8 5/8") Pivot Point

- Designed for pivots up to 853 meters (2800') long
- Available in low, standard and high profile heights
- Fits competitive pads

254 mm (10") Pivot Point

- Designed for pivots up to 853 meters (2,800') long
- Available in standard and high profile heights
- Comes standard with service platform and pivot flex



Pivot Point Options

Towable Pivots

The Valley towable options allow you to irrigate two or more fields to reduce your installed cost per hectare. Each towable machine can be towed from one field to another in less than an hour! You can choose from an on-board engine generator or public power supply to power your machine.

4-Wheel EZ Tow™

- Available in two pipe diameter options: 219 mm and 254 mm (6 5/8" and 8 5/8")
- Maximum machine length – 457 meters (1,500')
- Anchor on concrete pad or use earth anchors
- Comes standard with tongue hitch for quick, secure hook-up without cables
- 219 mm (8 5/8") pivot point can be towed in any direction

Skid Pivot

- Low cost option best used for infrequent towing
- Can handle even the longest towable units
- Not available with 219 mm (6 5/8") pivot point

2-Wheel EZ Tow

- Ideal for part-circle fields or multi-directional towing
- Maximum machine length – 335 meters (1100')
- Comes standard with tongue hitch design

QuickTow Pivot Point

- Available in 127 mm (5") pipe diameter
- Low-cost option used for frequent towing
- Intended for less stressful terrain and soils
- Available with span lengths up to 66,4 meters (217')
- Three-point hitch hook-up tow option



QuickTow Pivot Point



Valley DropSpan™

The Valley DropSpan™ allows you to pick up additional hectares adjacent to large obstructions at the edge of the field by dropping the outer spans of your center pivot. The spans can be dropped or re-attached by one person without tools in less than 15 minutes.



Features

- Large platform for easy access
- Optional second end gun
- Large, easy-to-access coupling with tethered plug
- Simple electrical connector manages span cable and control logic. No re-wiring needed
- Simple winch and batten leg system to drop and re-attach outer spans
- Stop switch automatically aligns base machine with dropped spans for easy re-attachment

Valley Benders

The Bender options were introduced to maximize irrigated area at a low cost. Benders allow the outer portion of a pivot to continue moving while the inner portion is stopped by fences, trees or other obstacles. With Valley Benders you receive improved water application while maximizing your irrigated hectares.

Bender30™

- Easy retro fit - no structural changes required
- Bends up to 30 degrees in either or both directions

Bender160™

- Uses custom pipes and swivel
- Bends up to 160 degrees in either or both directions

Features:

- Pick up additional hectares on part circle machines at a low cost
- Add multiple bends per machine
- Optional shut off valves turn off water to stopped spans while bending
- Valley-exclusive speed up timer reduces over watering while bending
- Integrated backup safeties prevent the machine from over extension and ensure return to normal operation after bending



Benders and DropSpan™





Longest Span

Valmont Irrigation brings you the longest irrigation span in the mechanized irrigation industry reaching up to 72 meters (236'). Currently, the most popular span length is 54.6 meters (180'). The Valley 72-meter span is engineered to the same standards as all Valley Model 8120 spans and has passed the most demanding strength and accelerated life tests in the industry.

The Longest Span

- Eliminates the need for additional shorter spans
- Decreases the amount of drive units required
- Can be combined with a 30,4 meter (100') overhang to maximize irrigated area
- Requires one less set of tires, gearboxes and motors to cover an average field

Benefits

- Lower per-hectare irrigation costs
- Lower energy costs
- Lower maintenance costs
- Less crop damage
- Fewer tire tracks



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.

©2014 Valmont Industries, Inc., Valley, NE 68064 USA. All rights reserved.

www.valleyirrigation.com

INTL11180 C 12/14