

# Valley® Linears

RELIABLE | DURABLE | PRECISE | ADVANCED | RESPONSIVE



**VALLEY** 

The Leader in Precision Irrigation



# Valley Linear





# Irrigation Options

## More Than Just Irrigation

As a grower, you understand that anything that can maximize your yields and increase your profitability is worth considering. Valley® linear machines provide returns not found in other irrigation equipment, including increased coverage and flexibility. Linear equipment is often seen as one of the most highly efficient methods of irrigation, and may be the right fit for your field.



### Take advantage of what Valley linears can offer your operation:

- Maximized irrigated areas
- Increased profitability
- Water conservation
- Elimination of runoff with certain soil types
- A farm management tool for various applications

### Maximize Irrigated Area

A linear typically irrigates 92% to 98% of a square or rectangular field.

### Irrigate Difficult Soil Types Effectively

Linear irrigation delivers lower rates of water than the outer portion of a pivot. This can help eliminate runoff when irrigating on certain soil types.

### Reduce Labor Costs

A linear can help reduce your labor costs as much as 50% compared with surface, side roll, or hand move irrigation.

### Maximize Crop Production with Limited Resources

Linears conserve water by applying only the amount of water that's needed, where it's needed.

### A Multi-Purpose Farm Tool

Linear irrigation does more than just irrigate, it may be used to provide your farm management program with chemigation, fertigation, germination, and leaching.







## AutoPilot Linear

The AutoPilot Linear control panel measures the position and travel direction of your linear machine, allowing you to program it to run automatically.

- Only control panel available specifically for linears
- Turns primary and secondary end guns on/off
- Can be programmed to change direction, stop, and change speed
- Start/stop chemigation based on field position



## GPS Position

- Requires AutoPilot Linear, a GPS Ready control panel
- Allows you to gather accurate data about the machine's position
- Can program control panels to precisely apply different levels of water and crop protection/fertility products
- Is compatible with the NovAtel GPS receiver, which is a dual channel and does not require a correction to achieve +/- 3 meters (10 feet)
- WAAS (Wide Area Augmentation System) enabled Garmin® receiver provides accuracy of +/- 4.5 meters (15 feet) with most installations reaching greater accuracy
- Offers a potential for higher yields and lower input costs because water is applied more efficiently
- Not available in all markets



## GPS Guidance

- Eliminates the need for below-ground, above-ground, or furrow guidance options
- Easily program the field map with the custom Valley mapping tool to best match changes in farm practices or field boundaries
- Diverse platform supports multiple brands of RTK receivers, such as John Deere® and Trimble®
- Trimble RTK receiver is compatible with existing Trimble RTK networks and can be easily retrofitted to most linears



# Linear Control Options





# Valley Rainger™ Linear



The Valley Rainger™ provides water source versatility with ditch (canal) and hose (pressured pipeline) feed, and also has customized cart options. Valley Rainger linears offer high-flow capabilities that are not available with other mechanized irrigation equipment.

The Valley Rainger gives you the ability to customize the equipment to fit your field. Begin with the Valley linear basic cart, equipped with the durable 5 inch tube frame. The same frame is used no matter your water source – you select what you need.

### Ditch Feed

Water Source	Earthen ditch or concrete canal
Power Source	Cart-mounted engine
Guidance	GPS, above- or below-ground cable, or furrow
Typical Field Sizes	130-607 hectares (301-1500 acres)
Typical Flow Rates	32-285 lps (500-4500 gpm)
Chemigation	On-board tanks



### Hose Feed

Water Source	Pressurized pipeline
Power Source	Cart-mounted engine or power cord
Guidance	Above- or below-ground cable, or furrow
Typical Field Sizes	9-47 hectares (22-67 acres)
Typical Flow Rates	12-88 lps (200-1400 gpm)
Chemigation	On-board tanks



### Swing Around

The Rainger Swing-Around can be configured to cover a wide range of field widths. It rotates 180° around the cart to irrigate the opposite side of the field. This linear provides an economical solution, doubling the amount of land irrigated with one machine.

- Utilizes the ClassicPlus or AutoPilot Linear control panel
- Available as a hose drag or ditch feed
- Above-ground, below-ground, or furrow guidance





### Valley Universal

The Valley Universal linear is designed for swing-around applications. Unlike other swing-around linears, the Valley Universal has the ability to automatically switch between linear mode and pivot mode, allowing the grower to increase the number of irrigated acres.



- Can irrigate while swinging around
- Available as a hose drag or ditch feed
- Hose drag: below-ground or furrow guidance available
- Ditch feed: above-ground or below-ground guidance available

### Valley Two Wheel Hose Feed

The Two Wheel Hose Drag linear from Valley is an ideal conversion option for fields currently irrigated by flood, drip, or solid set. This versatile machine may operate as a standard linear, towable, or swing-around.

- Provides coverage for both small and large fields
- Towable from field to field in either forward or reverse
- Below-ground, furrow, or GPS Guidance

### Valley Two Wheel Ditch Feed

The Valley Two Wheel Ditch Feed linear can take advantage of either permanent earthen water delivery infrastructures or earthen ditches that are installed annually. This linear is ideal for small fields, as it can either be towed or swung around to cover more area. A flexible suction inlet, will keep the investment low by fitting nearly any functioning earthen ditch.

- Towable from field to field in either forward or reverse
- Skid-style suction inlet
- Available flowrates of 10 lps – 70 lps (150 gpm – 1105 gpm)
  - Below-ground, furrow, or GPS Guidance



Two Wheel Ditch Feed



## Linears for Smaller Fields



Two Wheel Hose Feed



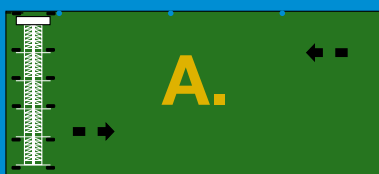
An aerial photograph of a vast agricultural field filled with sunflowers. A center pivot irrigation system is visible, with its long metal arms and numerous smaller wheels extending across the field. The sunflowers are in full bloom, showing bright yellow heads against green foliage. In the background, a line of trees and a road are visible under a clear sky.

# Choices to Fit Your Field



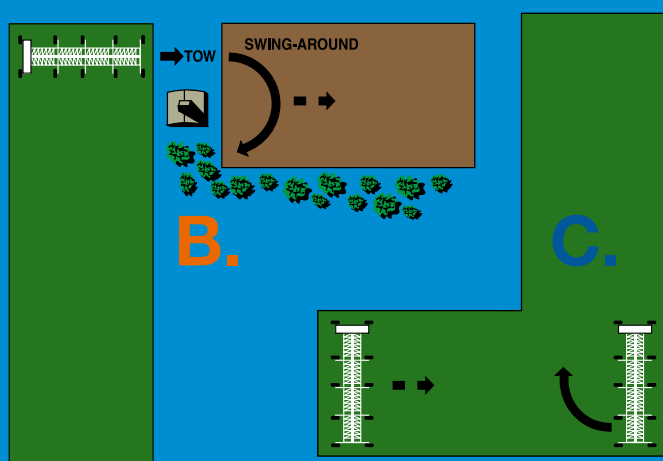


Fitting your field is our main concern and we recognize that customers need choices. That's why Valley offers options from the most reliable drive trains and water delivery to spans, tires, pumps, guidance systems, and more. Linears offer the greatest versatility for field applications – see how Valley Linears can match your field size and shape.



#### A. All Valley Linears

The standard linear travels back and forth across square or rectangular fields.



#### B. Two Wheel and Universal Linears

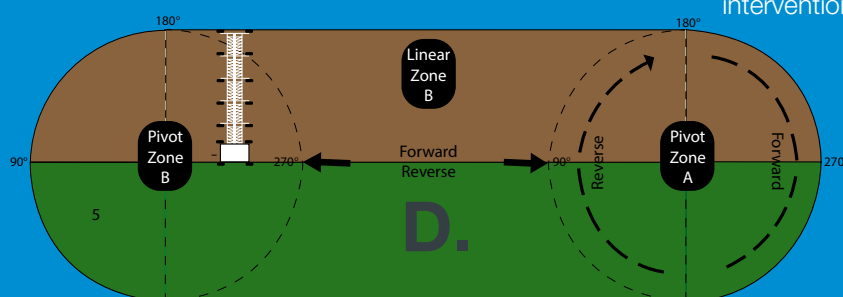
The forward/reverse tow and swing-around options can be combined to give you the flexibility to irrigate odd-shaped fields with only one machine.

#### C. Two Wheel and Universal Linears

As an option, a swing-around package can be ordered, which gives you the capability to irrigate L-shaped fields with one machine.

#### D. Valley Universal and Rainger Swing-Around Linears

The Valley Universal Linear with the AutoPilot Linear control panel will automatically transition from linear to pivot mode. The Valley Rainger will also swing-around, but requires manual user intervention.



# Linear Options

	Rainger	Rainger Swing-Around	Two Wheel Ditch Feed	Two Wheel Hose Feed	Universal
<b>LINEAR APPLICATION GUIDE</b>					
<b>Maximum Length</b>	973 m (3,200')	518 m (1,700')	400 m (1,300')	400 m (1,300')	400 m (1,300')
<b>Span Diameters</b>	6 5/8", 8 5/8", 10"	6 5/8", 8 5/8"	5", 6 5/8"	5", 6 5/8"	6 5/8"
<b>Towable Option</b>	No	No	Yes	Yes	Yes
<b>GPS Guidance</b>	Yes	No	Yes	Yes	No
<b>Target Field Type</b>	Larger fields	Larger fields on both sides of a ditch/canal or pipeline	Smaller fields with earthen ditch	Smaller fields	Smaller fields on both sides of a ditch/canal
<b>Water Source</b>	Hose or ditch	Hose or ditch	Ditch	Hose	Hose or ditch
<b>Cart Location</b>	End or center	End	End	End	End



Each Valley linear comes standard with the USA-made Valley gearboxes. This gearbox provides you with the reliability, durability, and quality you expect from Valley.



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.