

Customized Sprinkler Packages  
for Optimal Efficiency In Your Fields



RELIABLE | DURABLE | PRECISE | ADVANCED | RESPONSIVE

The Leader in Precision Irrigation.®



Your Valley® dealer can help you find the best water application solution for your operation – a strategy that will reduce energy costs, save water, and increase your productivity. Your Valley dealer has the training and ongoing industry education to help you be more profitable.



### Many factors go into selecting the right irrigation sprinklers for your operation. These include:

#### Soil Type and Texture

Proper sprinkler selection and design help reduce soil sealing.

#### Crops

Crop height and the water's ability to penetrate the crop canopy are significant considerations in sprinkler head design.

#### Terrain

The slope of the field should be taken into account, to minimize runoff and keep water where it's most needed.

#### Correct Spacing

Each sprinkler head must be positioned correctly to maximize water delivery, and the overlap of the sprinkler pattern is a critical factor.

#### Energy Conservation

Low-pressure sprinkler technology provides solutions that lower your energy bill because you use less water pressure.

# Irrigation Management

## Trust Your Valley Dealer

Your Valley dealer will help you select a sprinkler package that will reduce soil compaction, reduce sealing and create excellent water infiltration. Your choices include solutions from Senninger®, Nelson® and Komet.

Choose from:

- Rotating Pad
- Impact
- Low-Energy Precision Application (LEPA)
- Fixed Pad
- Directional Sprays



## Professional Sprinkler Package Design

- V-Chart™ software – available only to Valley dealers – is the most comprehensive sprinkler design program in the industry.
- Valley can provide sprinkler package designs for competitive machines.
- Water application staff are qualified as Certified Irrigation Designers by the Irrigation Association to certify a sprinkler package design for the Environmental Quality Incentives Program (EQIP).
- Valley inventories a full range of sprinklers, pressure regulators and drop components.

### Efficiency and Uniformity

- Droplet sizes are designed to minimize wind drift.
- Combining drops with new sprinkler technology delivers the ultimate water savings.
- Distributing water evenly across the field provides maximum yields.

### Additional Options

Lowering the position of the sprinkler reduces spray and drift caused by wind and evaporation. Desired sprinkler placement can be achieved with various Valley applications, such as drops (flexible hose, semi-rigid and fixed) and boombacks. There are many options available to best fit your needs.

### Crop Protection and Fertilizer Application

You can save substantial money when crop protection products and fertilizers are applied through center pivots and linears, rather than through ground rigs or aerial sprays. This is especially true for crops that require several applications during the growing season.

The efficient application of inputs will produce a more uniform crop and save you money on labor and application costs.



## Sprinkler Upgrades

### Upgrade an Existing Machine with Valley Water Application Technology

- Low-pressure sprinklers conserve energy
- Effectively operate sprinklers at 10-20 PSI (0,69-1,38 bar) to reduce your energy bill
- New sprinkler technology provides efficiency and uniformity
- Save money and water
- Worn out regulators and sprinkler nozzles decrease efficiency and uniformity
- Replacing or adding pressure regulators ensures proper flow from each nozzle

## Drops

### Flexible Hose

- Can be dragged through the crop
- Available in 3/4" (1.9 cm) hose

### Rigid Galvanized

- Available for truss rod height application
- Utilizes 3/4" (1.9 cm), schedule 40 galvanized steel

### Semi-Rigid Polyethylene

- Corrosion resistant
- Minimal flexibility

### Semi-Rigid PVC

- Non-corrosive
- Multiple lengths down to ground clearance of 5½' (1.7 m)
- Utilizes 3/4" (1.9 cm), schedule 80 sunlight resistant material

### U-pipes, Drop Weights and Fittings

- Additional options to complete any drop sprinkler application

### Remote Drains

- Minimize wheel tracks in field
- Move drain water away from wheel tracks
- Run drain water through sprinkler drop hose

## Solutions for Reducing Application Intensity

- Truss rod hose slings use the span structure to increase the wetted area, lowering application intensity
- Boombacks with standard sprinklers can be used to lower application intensity

## More Options

### End Guns

- Valley offers a full range of end gun selections to maximize your irrigated acres
- Booster pumps can also be paired with an end gun to meet the required operating pressure

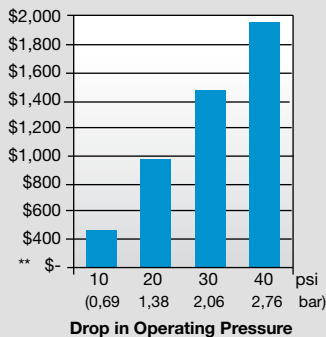
### Control Valves

- We offer a range of end gun valves

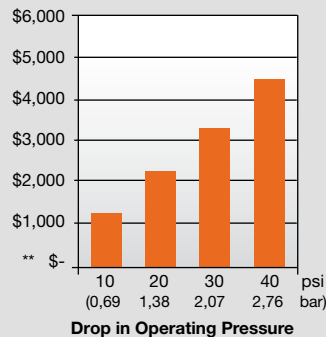
### Part Circle Sprinklers

- Discharge water behind drive unit rather than over the wheel
- Keeps wheel tracks dry

Potential Savings per 1000 Hours of Operation with Electricity



Potential Savings per 1000 Hours of Operation with Diesel



Based on 850 gpm (54 L/s), 80% pump efficiency, \$2.50/gallon (\$0.66/litre) diesel fuel or \$0.08/kW-hr electricity. Savings will also vary on how well the pump and engine fit the lower operating pressure.

\*All dollar amounts in \$USD