



Bubble (LEPA 1)



Aerated Bubble (LEPA 2)



Spray Irrigate



Chemigate

The Quad-Spray operates in four different modes. The Bubble and Aerated Bubble modes gently deposit water directly into furrow basins. The Spray Irrigate mode wets the entire soil surface. This is ideal for seed germination, for some chemical applications and for irrigating close-seeded crops. The Chemigate mode provides an upward spray that is very effective at washing away insects from the underside of the crop canopy.

LEPA & the Quad-Spray®



With LEPA, the plant canopy remains dry and less than one-half of the soil surface is wetted – surface evaporation losses are dramatically reduced.

The Senninger Quad-Spray was developed in the mid-1980's specifically for Low Energy Precision Application (LEPA). LEPA irrigation requires very little water and energy to operate. One of the biggest benefits of LEPA is that it makes pivot irrigation possible in regions previously hindered by limited water supplies.

- Two bubble modes eliminate misting and reduce soil redistribution
- Spray irrigate mode wets entire soil surface when needed
- Less energy is needed – operating at very low pressures (6-10 psi at the nozzle) and low water requirements (95-98% application efficiency)
- Chemigate pads available: Corn (58° upward throw) and Cotton (15° - 30° multi-level upward throw)
- Color-coded nozzles for easy size identification
- Two-year warranty on materials, workmanship & performance

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LEPA & the Quad-Spray®



Furrow diking creates water storage basins. These basins hold irrigation and rain water, allowing the pivot to move along at a higher speed.

RECOMMENDATIONS FOR EFFICIENT LEPA IRRIGATION

Level Fields - LEPA is primarily for use on relatively flat land. The maximum recommended slope is one percent.

Circle Planting - This is necessary to keep the applicator head centered in the furrow. Circular rows also play an important role in reducing runoff.

Furrow Diking - This creates small storage basins to hold water until it can infiltrate the soil.

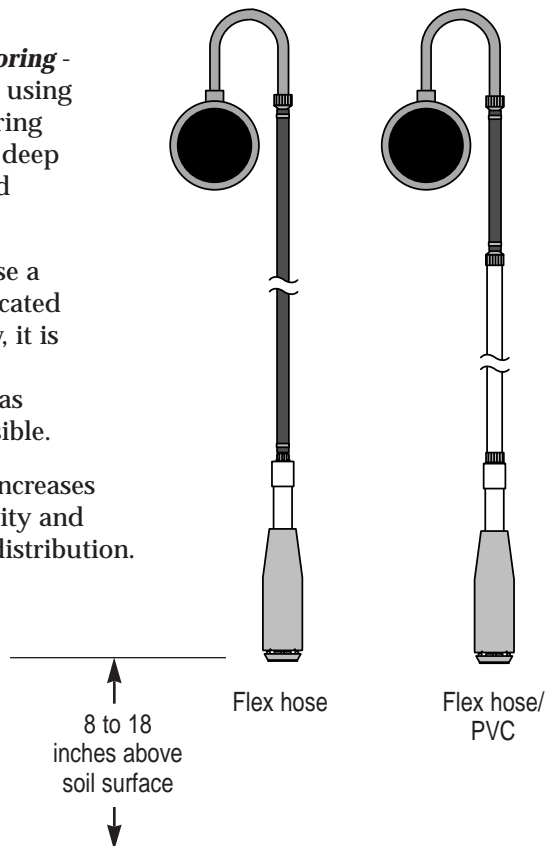
Deep Chiseling or Ripping - Used to loosen soil and improve infiltration.

Soil Moisture Monitoring - Scheduling irrigation using soil moisture monitoring devices helps reduce deep percolation losses and avoid plant stress.

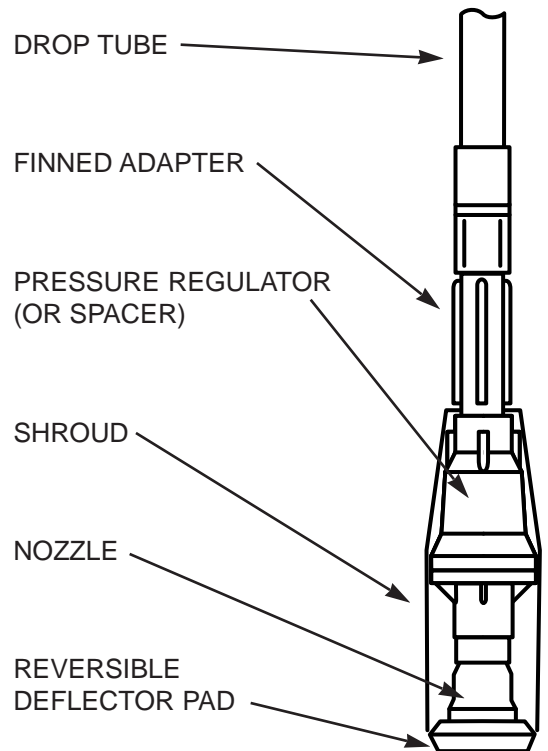
Soft Middles - Because a LEPA applicator is located in every other furrow, it is recommended that these furrows be left as uncompacted as possible.

Crop Residue - This increases surface storage capacity and helps prevent soil redistribution.

TYPICAL INSTALLATIONS (cross section view of pivot mainline)



QUAD-SPRAY COMPONENTS



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