SUPER SPRAY
Customizable Field Proven Technology

AGRICULTURAL IRRIGATION
Low Pressure - High Performance

senninger.com
THE MOST VERSATILE SPRAY NOZZLE IN THE INDUSTRY

The Super Spray has twenty-two changeable snap-in deflector pads for easy customization.

The Senninger Super Spray has been field-proven for more than thirty years. It offers a wide variety of interchangeable deflector pad options to meet specific crop, climate and soil requirements. The large distance between the nozzle and deflector and the bracket leg design makes it ideal for surface water.

Features

1. No moving parts for longer life
2. Can be mounted on top-of-pipe
3. UP3 Nozzle is easy to remove for cleaning or changing
4. Two-year warranty on materials, workmanship and performance

ULTRA LOW PRESSURE

Senninger Irrigation’s Super Spray can be used in low pressures as low as 6 psi (0.41 bar). Lower pressure translates to reduced horsepower requirements and reduced energy consumption. These low operating pressures offer irrigators a tremendous opportunity to lower total pumping costs. Products specifically designed to provide peak performance in this low pressure range offer a center pivot irrigator increased energy savings.

OPEN-BRACKET DESIGN

The Senninger Super Spray is ideal for irrigating with poor quality water (unfiltered surface water, effluent solutions, etc.) due to the large distance between the nozzle and deflector pad, and the deflector pad and the bracket. The two-legged bracket design minimizes build-up of water-borne solids.
Super Spray deflector pads are identified by their shape (flat, concave, or convex) and surface type (smooth, medium-grooved, or deep-grooved). The shape and surface type help control spray pattern and droplet size. Chemigation pads are available in high profile (corn) and low profile (cotton) to reach the underside of foliage. These snap-in pads and UP3 nozzles can be easily changed during the season to fit varying field, flow, and growing conditions.

**DEFLECTOR PADS**

### CONCAVE PADS

- 24 Deep-Groove
- 36 Deep-Groove
- 48 Deep-Groove
- 36 Medium-Groove
- Smooth
- Mini Smooth

### FLAT PADS

- 24 Deep-Groove
- 36 Deep-Groove
- 48 Deep-Groove
- 36 Medium-Groove
- Smooth
- Mini Smooth

### CONVEX PADS

- 24 Deep-Groove
- 36 Deep-Groove
- 48 Deep-Groove
- 36 Medium-Groove
- Smooth
- Mini Smooth

### CORN CHEMIGATION

- Corn Chemigation
- Mini Corn Chemigation

### COTTON CHEMIGATION

- Cotton Chemigation
- Mini Cotton Chemigation

### CUSTOMIZED DEFLECTOR OPTIONS

- **FLAT**
  - 24 Deep-Groove
  - 36 Deep-Groove
  - 48 Deep-Groove
  - 36 Medium-Groove
  - Smooth
  - Mini Smooth

- **CONCAVE**
  - 24 Deep-Groove
  - 36 Deep-Groove
  - 48 Deep-Groove
  - 36 Medium-Groove
  - Smooth
  - Mini Smooth

- **CONVEX**
  - 24 Deep-Groove
  - 36 Deep-Groove
  - 48 Deep-Groove
  - 36 Medium-Groove
  - Smooth
  - Mini Smooth

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### SUPER SPRAY DESIGN CRITERIA

<table>
<thead>
<tr>
<th></th>
<th>Flat, Concave, Convex (black, blue, green)</th>
<th>Mini Smooth (black, blue, green)</th>
<th>Corn Chemigation (red) Cotton Chemigation (white)</th>
<th>Mini Corn Chemigation (red) Mini Cotton Chemigation (white)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nozzle sizes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum</td>
<td>#4 1/16” (1.59 mm)</td>
<td>#4 1/16” (1.59 mm)</td>
<td>#10 5/32” (3.97 mm)</td>
<td>#4 1/16” (1.59 mm)</td>
</tr>
<tr>
<td>Maximum*</td>
<td>#26 13/32” (10.32 mm)</td>
<td>#9.5 19/128” (3.76 mm)</td>
<td>#26 13/32” (10.32 mm)</td>
<td>#9.5 19/128” (3.76 mm)</td>
</tr>
<tr>
<td>Flows</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum</td>
<td>0.27 gpm (61 L/hr)</td>
<td>0.27 gpm (61 L/hr)</td>
<td>1.74 gpm (395 L/hr)</td>
<td>0.27 gpm (61 L/hr)</td>
</tr>
<tr>
<td>Maximum</td>
<td>29.96 gpm (6805 L/hr)</td>
<td>2.02 gpm (459 L/hr)</td>
<td>29.96 gpm (6805 L/hr)</td>
<td>2.02 gpm (459 L/hr)</td>
</tr>
<tr>
<td>Maximum Spacing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>at 6 ft (1.8 m) ground clearance</td>
<td>10 ft (3.0 m)</td>
<td>10 ft (3.0 m)</td>
<td>10 ft (3.0 m)</td>
<td>10 ft (3.0 m)</td>
</tr>
<tr>
<td>at 9 ft (2.74 m) ground clearance</td>
<td>10 ft (3.0 m)</td>
<td>10 ft (3.0 m)</td>
<td>10 ft (3.0 m)</td>
<td>10 ft (3.0 m)</td>
</tr>
<tr>
<td>Pressure at the Nozzle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum</td>
<td>6 psi (0.41 bar)</td>
<td>6 psi (0.41 bar)</td>
<td>6 psi (0.41 bar)</td>
<td>6 psi (0.41 bar)</td>
</tr>
<tr>
<td>Maximum</td>
<td>40 psi (2.76 bar)</td>
<td>40 psi (2.76 bar)</td>
<td>40 psi (2.76 bar)</td>
<td>40 psi (2.76 bar)</td>
</tr>
</tbody>
</table>

*It is recommended that larger nozzle sizes be used only on soils that can handle higher application rates.*
**UP3 DUAL NOZZLE CARRIER**
To access the secondary nozzle, pinch and pull the nozzle from the applicator, flip the carrier over and click in the secondary nozzle. The carrier is marked to indicate high and low flow nozzles. When installed in the applicator, if HIGH is visible on the carrier, then the lower flow nozzle is in use. If LOW is visible on the carrier, the higher flow nozzle is in use.

**UP3 DUAL NOZZLE FITTING**
Designed to be used instead of a standard barb x threaded fitting, this device carries two additional UP3 nozzles. Just pinch and pull to remove nozzles and place and click to reinstall. Nozzles are easily identifiable with numbers on the ears. The larger the number, the higher the flow.

**DRAG HOSE ADAPTER**
Conversion to direct furrow water application is easy with the Super Spray and the snap-in drag hose adapter. The adapter snaps right into the Super Spray, replacing the deflector pad. Simply snap out the deflector pad, align and snap in drag hose and adapter. Direct furrow application eliminates wind-drift and evaporation.

Nozzle sizes are in 64th of an inch. For example: #12 nozzle= 12/64 inch = 3/16 inch.
The Senninger Super Spray can be mounted upright or inverted.

SUPER SPRAY SYSTEM ASSEMBLY

MOUNTING
1. The Super Spray can be mounted on rigid drops or flexible hose drops.
2. When using flexible hose a weight is recommended.
3. When using the Senninger Magnum Weight, use the internal fit technology to nest weight onto the base of the Super Spray.
4. Conventional slip over weights can be used with the Super Spray.
5. Mount the Super Spray no less than 1.5 - 9 ft. (0.46 - 2.74m) above the ground.

PRESSURE REGULATOR LOCATION
1. Pressure regulators can be installed at the top of the drop, or near the applicator.
2. Always follow your customized printout for proper pressure regulator placement.

Important: To maintain product warranty and maximize drop component life, refer to the information and diagrams here.

SENNINGER WEIGHTS
Senninger weights provide stability on drops for a number of pivot applicators. The unique fit technology allows the weight to fit securely onto the i-Wob, Xi-Wob, LDN, Super Spray, and even some other manufacturer’s applicators. The weight’s easy-to-install design lets it remain on the applicator during nozzle changes. The One Weight is constructed entirely of zinc alloy and the Magnum Weight is constructed of UV-resistant thermoplastic to prevent corrosion and deter metal theft.

COMPONENT ASSEMBLY
The Magnum or The One Weight
UP3 Nozzle or Dual Nozzle Carrier
Deflector
Bracket
Drag Hose Adapter (Optional)

PRESSURE REGULATORS
PRL-Low Flow
PMR-Medium Flow
Ask about the patented PSR-2 for systems pumping surface water!

Pressure regulators enable applicators to operate properly. With low pressure systems, any fluctuations can significantly impact system performance. Higher pressures can create small droplets susceptible to wind-drift, misting and evaporation. Pressure regulators can be installed at the top of the drop or directly above the applicator. A Senninger Pressure Drop can be installed at the end of the pivot just above the applicator to help verify system design pressure.
The UP3 nozzle design offers a quick solution for easy nozzle changes along with two convenient options for nozzle carriers so your next nozzle is always at hand when you’re ready to make the change.

### Components/UP3 Nozzle Chart

<table>
<thead>
<tr>
<th>Nozzle Color</th>
<th>Nozzle Size</th>
<th>Nozzle #</th>
<th>Nozzle Color</th>
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<th>Nozzle #</th>
</tr>
</thead>
<tbody>
<tr>
<td>#4 Light Blue</td>
<td>3/16&quot; (.019)</td>
<td>6 psi</td>
<td>0.46 l/min</td>
<td>15 psi</td>
<td>0.94 l/min</td>
<td>30 psi</td>
<td>1.96 l/min</td>
<td>40 psi</td>
<td>2.76 l/min</td>
<td>640 psi</td>
<td>2.76 l/min</td>
<td>#5 Beige</td>
<td>5/32&quot; (.016)</td>
<td>6 psi</td>
<td>0.56 l/min</td>
<td>15 psi</td>
<td>0.78 l/min</td>
</tr>
<tr>
<td>#4 Black</td>
<td>9/64&quot; (.014)</td>
<td>6 psi</td>
<td>0.14 l/min</td>
<td>15 psi</td>
<td>0.24 l/min</td>
<td>30 psi</td>
<td>0.31 l/min</td>
<td>40 psi</td>
<td>0.38 l/min</td>
<td>640 psi</td>
<td>0.38 l/min</td>
<td>#5 Black</td>
<td>3/32&quot; (.009)</td>
<td>6 psi</td>
<td>0.08 l/min</td>
<td>15 psi</td>
<td>0.13 l/min</td>
</tr>
<tr>
<td>#4 Light Blue</td>
<td>1/8&quot; (.125)</td>
<td>6 psi</td>
<td>0.35 l/min</td>
<td>15 psi</td>
<td>0.56 l/min</td>
<td>30 psi</td>
<td>0.72 l/min</td>
<td>40 psi</td>
<td>0.79 l/min</td>
<td>640 psi</td>
<td>0.79 l/min</td>
<td>#6 Bronze</td>
<td>3/16&quot; (.019)</td>
<td>6 psi</td>
<td>0.27 l/min</td>
<td>15 psi</td>
<td>0.41 l/min</td>
</tr>
<tr>
<td>#4 Light Blue</td>
<td>5/64&quot; (.008)</td>
<td>6 psi</td>
<td>0.43 l/min</td>
<td>15 psi</td>
<td>0.63 l/min</td>
<td>30 psi</td>
<td>0.84 l/min</td>
<td>40 psi</td>
<td>0.91 l/min</td>
<td>640 psi</td>
<td>0.91 l/min</td>
<td>#6 Black</td>
<td>1/4&quot; (.064)</td>
<td>6 psi</td>
<td>0.14 l/min</td>
<td>15 psi</td>
<td>0.23 l/min</td>
</tr>
</tbody>
</table>

### GOOSENECKS

Senninger 180 degree goosenecks are constructed of non-corrosive, UV-resistant thermoplastic materials for long life and reduced plugging.
We strive to create the best low pressure, high performance agricultural irrigation products in the world while maintaining the highest level of quality and reliability. In every instance we will back our innovations with the unwavering support our customers need to succeed.

James E. Burks, President of Senninger Irrigation