RECOMMENDED INSTALLATION
LDN® UP3®

COMPONENT ASSEMBLY

THE MAGNUM WEIGHT
(0.85 LB)
MAGWGTSLP

UP3 NOZZLES
#04 - #26
UP3NZ04 - UP3NZ26
(Depending on deflector)

LDN UP3 BRACKET ASSEMBLY
LDNBRASMUP3

DEFLECTOR PADS
Please see LDN schematic for part numbers

UP3 NOZZLE REMOVAL AND INSTALLATION

NOZZLE REMOVAL
PINCH

NOZZLE INSTALLATION
PLACE
CLICK

NOZZLE VISIBILITY
Whole sizes
Half sizes
Notches
### Installation Specifications

**LDN SYSTEM ASSEMBLY**

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

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**BUBBLER PAD ASSEMBLY**

Make sure the large tick marks of the UP3 Bubbler Pad align with the LDN UP3 Bracket legs before twisting to lock it in. The small tick mark aligns with the leg when locked.

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**PART-CIRCLE PAD ASSEMBLY**

With the nozzle number in the bracket facing you, center the tab on the Part-Circle Pad behind the nozzle before twisting to lock it in.

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**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.*

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### System Design Criteria

<table>
<thead>
<tr>
<th>Nozzle sizes</th>
<th>Mini Pad</th>
<th>Single Pad</th>
<th>Double Pad</th>
<th>Triple Pad</th>
<th>Part-Circle Pad</th>
<th>Bubbler Pad</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Minimum</strong></td>
<td>#04 1/16” (1.59 mm)</td>
<td>#10 5/32” (3.97 mm)</td>
<td>#15 15/64” (5.95 mm)</td>
<td>#20 5/16” (7.94 mm)</td>
<td>#06 3/32” (2.38 mm)</td>
<td>#04 1/16” (1.59 mm)</td>
</tr>
<tr>
<td><strong>Maximum</strong></td>
<td>#09 9/64” (3.57 mm)</td>
<td>#14 7/32” (5.56 mm)</td>
<td>#26 13/32” (10.32 mm)</td>
<td>#26 13/32” (10.32 mm)</td>
<td>#18 9/32” (7.14 mm)</td>
<td>#23 13/32” (10.32 mm)</td>
</tr>
</tbody>
</table>

**Flows**

| Minimum | 0.27 gpm (61 L/hr) | 1.74 gpm (395 L/hr) | 3.93 gpm (898 L/hr) | 6.99 gpm (1587 L/hr) | 0.62 gpm (141 L/hr) | 0.27 gpm (61 L/hr) |
| Maximum | 2.56 gpm (581 L/hr) | 6.25 gpm (1420 L/hr) | 21.2 gpm (4811 L/hr) | 21.2 gpm (4811 L/hr) | 10.4 gpm (2351 L/hr) | 21.2 gpm (4811 L/hr) |

**Maximum Spacing**

| at 6 ft (1.8m) ground clearance | 7 ft (2.1 m) | 7 ft (2.1 m) | 7 ft (2.1 m) | 7 ft (2.1 m) | N/A | N/A |
| Pressure at the Nozzle |
| Minimum | 6 psi (0.41 bar) | 6 psi (0.41 bar) | 6 psi (0.41 bar) | 6 psi (0.41 bar) | 6 psi (0.41 bar) | 6 psi (0.41 bar) |
| Maximum | 20 psi (1.38 bar) | 20 psi (1.38 bar) | 20 psi (1.38 bar) | 20 psi (1.38 bar) | 20 psi (1.38 bar) | 20 psi (1.38 bar) |

* It is recommended that larger nozzle sizes be used only on soils and slopes that can handle higher application rates.

**For optimum performance Senninger recommends the use of maximum spacing for 1-2 spans only.**

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