TriEst Irrigation focuses on total solutions for the grower so they can achieve higher crop yields using available irrigation water more efficiently.

Our company's goal is to be a one-stop-shop for growers offering:

- High quality plant irrigation and nutrition solutions
- Experienced system designers
- Great name brand products, parts, and plant nutrition
- Knowledgeable sales representatives
- Exceptional service
- 9 Convenient locations in NC, SC, GA, & FL
- Online shopping

From the home gardener to the commercial grower TriEst Irrigation can assist in achieving higher yields and better overall quality.

For more information found within this catalog or questions about other products not listed please contact us at any of our locations.

Please let us know what you are looking for and we will make every attempt to supply your demand with quality and cost-effective products.

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- Filters - Circulating
- Filters - Sand Media
- Filters - Sand Separator

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- Air Vents

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Travelers

Equipment
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- Sprayer Equipment
- Filter Trailers

Contact Us


Automation & Crop Monitoring

Netafim NMC Pro System Manager

**Features & Benefits**
The NMC Pro System Manager does more than open and close irrigation valves - it integrates all of your control features in one easy-to-use unit.

- Up to 256 Control Outputs
- Up to 32 Digital Control Inputs
- Up to 22 Analog Control Inputs
- 15 Irrigation Programs
- 8 Dosing Channels
- Flushing up to 24 Filters
- Fertigation by Time, Quantity, Proportional Time or Proportional Quantity
- History of Water and Fertigation Events Log
- EC/pH Control
- PC Communication
- Irrigation Programs
- Irrigation Trigger Programs
- Pump Control Programs
- Filter Flushing Programs
- Fertilizer and Nutrient Injection Programs
- Cooling Programs
- Alarm Programs
- Available with 115VAC or 12VDC power supply card
- AC power supply can use optional 12VDC backup battery to keep the system manager on during power failure reducing the risk of lost or damaged data

**Netafim NMC Junior Pro System Manager**

**Features & Benefits**
The NMC Junior Pro System Manager operates your entire irrigation system improving irrigation efficiencies and fertilizer injection functions. Resulting in improved plant response and optimizes your input investments.

- Program memory back-up key is removable and allows you to back up all programs.
- Programs are secure & restorable.
- Large graphic LCD display. (5” x 2 1/2”)
- User-friendly keyboard for quick and easy programming
- Hot Key Menu for instant navigation or individual preferences.
- Real-time and historical records.
- 6 control inputs
- 15 control outputs
- 8 dosing channels
- Fertigation by time or quantity
- Flushing up to 14 filters
- Cooling
- History of events
- Flow and EC/pH Alarms

**Netafim NMC Pro**

<table>
<thead>
<tr>
<th>Description</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMC Pro with Power Line for Protector</td>
<td>74340-005105</td>
</tr>
</tbody>
</table>

**Netafim NMC Junior Pro**

<table>
<thead>
<tr>
<th>Description</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMC Junior Pro with Power Line for Irrigation Control</td>
<td>74340-023960</td>
</tr>
</tbody>
</table>
**Netafim FertiKit 3G**

**Features & Benefits**
The FertiKit 3G is a fully configurable fertilizer/acid dosing unit. It can accommodate a variety of dosing channels, dosing boosters, NMC Controllers, peripherals and accessories to meet a vast range of applications and infrastructure constraints.

Basic functions include controlled mixing of fertilizers/acids with source water into a homogenous nutrient solution, EC/pH correction of nutrient solution and water pre-treatment.

- Venturi operation principle - no moving parts.
- Fits easily into an existing irrigation system.
- SP-Mainline pressure range of 15-60 psi.
- Up to 6 dosing channels: 13-265 GPH
- Total fertilizer/acid suction capacity: 1,585 GPH

**Model Description**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>33200-050000</td>
<td>FertiKit 3G SP-120 VAC NMC Pro Controller, Booster Pump 1 X220 VAC, 2 Fertilizer channels at 35 GPH, 1 Acid Channel at 10 GPH, EC/PH Monitoring</td>
</tr>
</tbody>
</table>

---

**Netafim NetaFlex 3G**

**Features & Benefits**

Featuring a state-of-the-art Open tank mixing system, NetaFlex™ 3G provides very high level of dosing Precision and uniformity for greenhouses crops. A modular CE-compliant dosing system, Netaflex 3G easily integrates with multiple Netafim and third-party controllers and monitoring systems. Netaflex always injects a uniform quantity of nutrients and perfect EC&PH control.

**Components**
- Quick-action dosing valves
- Wide range of integrated accessories and peripherals
- High-quality components and PVC piping
- Aluminum, corrosion-resistant frame with adjustable legs

**Capabilities**
- Versatile flow capacity: from 0.1Ha to 10Ha
- Up to 6* highly accurate 50-600 l/hr (13-156 gal/hr) fertilizer/acid dosing channels

**Model Description**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>33400-005900</td>
<td>NetaFlex 3G 110VAC NMC Pro Controller, Booster Pump 3x 220VAC, with 6 channels at 13 GPH, EC/pH Control, Pump CM 10-2</td>
</tr>
</tbody>
</table>

---

**Netafim FertiOne™**

**Features & Benefits**
The FertiOne™ offers a Nutrigation™ solution for injection of a single fertilizer in open field sites fitted with electricity. It is a plug-and-play, fully configurable, simple-to-operate single-channel fertilizer/acid dosing unit.

**Components**
- Venturi operated dosing channel
- Quick-action dosing valves
- Pressure gauge
- Controller (optional)
- Stainless steel dosing booster
- Dosing booster switchbox
- Check valve
- Wide range of integrated accessories and peripherals

**Capabilities**
- Versatile flow capacity: from a 0.25 acre nursery to a 1000 acre plantation

---

**Netafim FertiOne™ Plus**

**Features & Benefits**
The FertiOne Plus is a fully configurable, simple to operate two channel fertilizer/acid dosing unit. It’s the perfect solution for open field sites fitted with electricity where injection of up to two fertilizer solutions is needed. It ensures the highest efficiency and can be connected to any external 24VAC controller.

**Components**
- Two Venturi operated dosing channels
- Quick action 24VAC dosing valve
- Pressure gauge
- Controller (optional)
- Stainless steel dosing booster
- Continuous acting air vent
- Check valve
- Dosing booster switchbox with motor protection
- Visual flow meters with adjustable needle valves
- High-quality components and schedule 80 PVC piping
- Aluminum, corrosion-resistant frame with adjustable legs

**Model Description**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>33400-005900</td>
<td>NetaFlex 3G 110VAC NMC Pro Controller, Booster Pump 3x 220VAC, with 6 channels at 13 GPH, EC/pH Control, Pump CM 10-2</td>
</tr>
</tbody>
</table>
**Automation**

**Toro EVOLUTION® AG**

**Features & Benefits**
The EVOLUTION® AG, built on the award-winning Evolution platform, allows for modular expansion, fertilizer injection, pulse irrigation, propagation and misting schedules, along with the freedom to program valves to your specific needs: from 1 second to 24 hours.

**Capabilities**
- Program valve runtime from 1 second to 24 hours
- Operate up to 4 valves at one time
- Wireless Valve Remote Control
  - Hand-held Remote Control with 1,000 ft. range
- Precision Soil Sensor
  - 4" probes appropriate for container production
- Wireless Weather Sensor
- Modular expansion: 4, 8, 12, and 16 valves

**Programming features**

1) **Fertilizer Programming**
- Fertilize with every watering, or select specific days
- Assign up to two fertilizer pumps to each valve
- Fertilizer pumps are prevented from operating when no watering valve is operating

2) **Pulse Irrigation**
The Evolution AG simply asks:
- Do you want to pulse?  • How long to pulse?  • How long to delay before the next pulse?

3) **Misting & Propagation**
The Evolution AG controller makes it extremely simple to create a misting schedule with a few easy steps.

4) **Additional Programming**
- 3 Programs
- One button toggle between English and Spanish
- Press one button to skip current valve
- Schedule Options: Weekly, Interval, or Looping
- Non-volatile memory
  - Doesn’t require batteries
  - Holds program up to 5 years
- Firmware upgrade by USB
- Program save/transfer by USB
- Powerful Diagnostics built in:
  - Zone test measures and displays current draw of solenoid, and identifies short, over current, and open conditions.
  - Automatic short detection for circuit protection and faster, more efficient troubleshooting
- Flexible Master valve programming
- Programmable well-recovery delay from 10 seconds to 30 minutes.
- Timed WATER OFF from one to fourteen days
- Adjust schedules +/- by %

---

**Netfim Backflush Controller**

**Features & Benefits**
- Modular controller is expandable from 1 to 10 outputs.
- Can be used with automatic disc filters, automatic sand media filters and automatic screen filters.
- Flush cycle is triggered by time or pressure differential and each type of flush cycle is logged by the controller.
- Design flexibility with an embedded pressure differential (PD) gauge or an external PD gauge.
- Detection of continuous backflush cycles causes an alarm to sound.
- User-friendly LCD display and keyboard.
- Flexible settings for pre-dwell, dwell, and flush times allows programming to meet system requirements.

**Outputs Voltage Model Number**

<table>
<thead>
<tr>
<th>Outputs</th>
<th>Voltage</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-10</td>
<td>24VAC</td>
<td>31NBCAC*</td>
</tr>
<tr>
<td>2-10</td>
<td>12VDCL</td>
<td>31NBCDC*</td>
</tr>
</tbody>
</table>

* Add number of outputs

---

**Alextronics F2 Backflush Controller**

**Features & Benefits**
- Two (2) stations plus master valve
- Input voltage 115, 230 VAC (optional) 12VDC
- Output selectable to operate 24VAC, 12VDC solenoids
- Pressure differential (PD) gauge included
- Fixed PD delay
- Resettable backwash count
- Resettable alarm
- Plastic outdoor box
- Periodic, manual, or pressure differential (PD) actuated

**Outputs Voltage Model Number**

<table>
<thead>
<tr>
<th>Outputs</th>
<th>Voltage</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>24VAC/12VDC</td>
<td>23AXF2ACDC-D</td>
</tr>
<tr>
<td>2</td>
<td>12VDCL</td>
<td>23AXF2DCL-P</td>
</tr>
<tr>
<td>3</td>
<td>24VAC/12VDC/12VDCL</td>
<td>23AXF3ACDC-D</td>
</tr>
<tr>
<td>4</td>
<td>24VAC/12VDC/12VDCL</td>
<td>23AXF4ACDC-D</td>
</tr>
<tr>
<td>8</td>
<td>24VAC/12VDC/12VDCL</td>
<td>23AXF8ACDC-D</td>
</tr>
<tr>
<td>12</td>
<td>24VAC/12VDC/12VDCL</td>
<td>23AXF12ACDC-D</td>
</tr>
</tbody>
</table>

**Alextronics Controllers also available:**
- F3 AC/DC/DCL Controller
- FA AC/DC/DCL Controller
- F8 AC/DC/DCL Controller
- F12 AC/DC/DCL Controller

---

**Toro EVOLUTION® AG**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVO-4AG</td>
<td>4-Valve Outdoor Controller</td>
</tr>
<tr>
<td>A-EMOD-4</td>
<td>4-Valve Expansion Module</td>
</tr>
<tr>
<td>A-EMOD-12</td>
<td>12-Valve Expansion Module</td>
</tr>
</tbody>
</table>
Netafim NMC Air™

NMC Air, a cloud-based software, provides a user with the ability to operate and monitor the NMC Irrigation Controllers from anywhere at anytime. NMC Air software connects an NMC Pro, DC or NMC Junior Pro Irrigation Controller to the NMC Air cloud.

Features & Benefits
- Get farm status and check active irrigation and dosing performance in a single view
- Get alarms and notifications sent to your mobile device or PC
- Manually and remotely operate the NMC Irrigation Controller:
  - Pause and resume irrigation
  - Start or stop irrigation programs, valves, filter flushing
- View and create graphs for trend monitoring
- Create and edit your NMC irrigation strategy:
  - Edit irrigation, dosing, water run time, filter flushing, misting and cooling programs
- Get historic logs for analyzing farm data:
  - Irrigation and sensor logs
  - Uncompleted irrigation and other uncompleted programs

Crop Monitoring

### Netafim NMC Air™

**Model Description**

- **31NMCAIR1CTRKIT** NMC AIR KIT FOR NMC PRO OR DC CONTROLLER
  Includes: gateway, power supply, RS485 card, 2 years license and enclosure

- **31NMCJRAIR1CTRKIT** NMC AIR KIT FOR 1 NMC JUNIOR PRO CONTROLLER
  Includes: gateway, power supply, RS485 card, 2 years license and enclosure

- **31CELLOMODEMICU+** Optional Cell Modem for Areas Needing Internet Connectivity

**Filters**
Netafim Disc Filters

Features & Benefits
Plastic rings stack together creating a cylindrical filter element. During filtration, the rings are compressed together effectively filtering the water and protecting the system from clogging.

- Disc Filters- Sizes 3/4” - 6”.
- GPM 1-600.
- Mesh sizes 40-200.
- Multiple disc ring design captures and holds debris.
- Greater holding capacity of the rings vs. screen filters means less frequent cleaning.
- Rings are easily removed for fast cleaning without the need for scrubbing.
- Color-coded disc rings for identification.

Netafim- 2” & 3” LP Disc Kleen Series

2” & 3” LP Specifications
- Inlet and Outlet Connections:
  - 2” LP Disc-Kleen - 4” Grooved
  - 3” LP Disc-Kleen - 6” Grooved
- Backflush Valve Flush Port: 2” Male Pipe Thread
- Maximum Operating Water Pressure: 90 psi
- Minimum Pressure for Backflush: 30 psi
- Minimum Backflush Flow Per Spine: 35 GPM
- Minimum Allowable pH: 5
- Drain Manifold: 2” Grooved Outlet Connection
- Available in 24 VAC, 12 VDC or 12 VDC Latching models for operating pressure up to 90 psi.
- For operating pressures between 91 - 140 psi, high pressure solenoids are available.
- Inlet manifold for 3” LP Disc-Kleen located on top of filter for ease of installation.

How Automatic Disc Filter Technology Works
A filter element (spine) contains a stack of compressed discs with an overlapping series of grooves that force the debris to move through the numerous trap points.

Filtration Process
Unfiltered water passes through a stack of tightly compressed discs. The water is forced to flow through the interlocking grooves of the disc rings where debris is trapped, releasing only filtered water to the irrigation system.

Backflush Process
As debris in the filter increases, the backflush process is initiated. The discs separate and jets of clean water spray and spin the discs removing the trapped debris which is then flushed out.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>3/4” Filter</th>
<th>1” Filter</th>
<th>1” Super Filter</th>
<th>1 1/2” Super Filter</th>
<th>2” Dual Lite Filter</th>
<th>2” HP Filter</th>
<th>3” Dual Lite Filter</th>
<th>3” Angle Filter</th>
<th>4” Twin Filter</th>
<th>6” Twin Filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Range</td>
<td>1-12 GPM</td>
<td>5-26 GPM</td>
<td>10-35 GPM</td>
<td>10-52 GPM</td>
<td>40-110 GPM</td>
<td>40-120 GPM</td>
<td>80-220 GPM</td>
<td>80-220 GPM</td>
<td>160-450 GPM</td>
<td>200-600 GPM</td>
</tr>
<tr>
<td>Maximum Pressure</td>
<td>140 psi</td>
<td>140 psi</td>
<td>140 psi</td>
<td>115 psi</td>
<td>174 psi</td>
<td>115 psi</td>
<td>140 psi</td>
<td>140 psi</td>
<td>140 psi</td>
<td>140 psi</td>
</tr>
</tbody>
</table>

Mesh/Micron

<table>
<thead>
<tr>
<th>Mesh</th>
<th>Micron</th>
<th>Disc Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>040</td>
<td>400</td>
<td>Blue</td>
</tr>
<tr>
<td>080</td>
<td>200</td>
<td>Yellow</td>
</tr>
<tr>
<td>120</td>
<td>130</td>
<td>Red</td>
</tr>
<tr>
<td>140</td>
<td>115</td>
<td>Black</td>
</tr>
<tr>
<td>200</td>
<td>55</td>
<td>Green</td>
</tr>
</tbody>
</table>
Netafim ScreenGuard™ Automatic Screen Filters

Features & Benefits
• Screen filters sizes: 4", 6", 8" and 10"
• Screen Mesh Sizes: 80, 120, 150, & 200
• Min/Max Operating Pressure: 30/150 PSI
• 3-Layer, 316 stainless steel screen for long life and high performance
• Externally mounted backflush valve for easy serviceability
• Filter Housing: baked epoxy, carbon steel coated
• Control Voltage: DC Latching
• End Connections: Flanged

<table>
<thead>
<tr>
<th>Size</th>
<th>Model Number</th>
<th>Back Flush Flow Rate</th>
<th>Maximum Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>76ASF4FL-XXX</td>
<td>132 GPM</td>
<td>440 GPM</td>
</tr>
<tr>
<td>6&quot;</td>
<td>76ASF6FL-XXX</td>
<td>132 GPM</td>
<td>700 GPM</td>
</tr>
<tr>
<td>8&quot;</td>
<td>76ASF8FL-XXX</td>
<td>132 GPM</td>
<td>1,320 GPM</td>
</tr>
<tr>
<td>10&quot;</td>
<td>76ASF10FL-XXX</td>
<td>396 GPM</td>
<td>2,000 GPM</td>
</tr>
</tbody>
</table>

Netafim Scan Kleen Filters

Specifications:
• Screen Mesh Sizes: 40, 80, 120, 150 and 200
• Screen: Stainless Steel
• Maximum Operating Pressure: 120 psi
• Required Minimum Pressure for Flushing: 20 psi (if less than 20 psi, install a manual valve downstream of the filter)
• Flushing Flow Rate: 50 GPM at 30 psi
• End Connections: Flanged

<table>
<thead>
<tr>
<th>Size</th>
<th>Description</th>
<th>Micron</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>SAF - 1500</td>
<td>10-800</td>
</tr>
<tr>
<td>3&quot;</td>
<td>SAF - 1500</td>
<td>10-800</td>
</tr>
<tr>
<td>4&quot;</td>
<td>SAF - 1500</td>
<td>10-800</td>
</tr>
<tr>
<td>6&quot;</td>
<td>SAF - 3000</td>
<td>10-800</td>
</tr>
<tr>
<td>8&quot;</td>
<td>SAF - 4500</td>
<td>10-800</td>
</tr>
</tbody>
</table>

Amiad Screen Filters

Features & Benefits
• Interchangeable filter elements for wide range of flow rates.
• Minimal head loss even at high flow-rates.
• Rated operation pressure: 145 psi
• Easy to maintain, no tools required for rinsing.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Mesh</th>
<th>Size</th>
<th>GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic</td>
<td>Tagline Filter with Stainless steel screen &amp; Ball valve</td>
<td>80</td>
<td>3/4&quot;</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100</td>
<td>1&quot;</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td></td>
<td>130</td>
<td>1 1/2&quot;</td>
<td>66</td>
</tr>
<tr>
<td></td>
<td></td>
<td>150</td>
<td>2&quot;</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200</td>
<td>3&quot;</td>
<td>220</td>
</tr>
<tr>
<td></td>
<td></td>
<td>300</td>
<td>4&quot;</td>
<td>330</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500</td>
<td>6&quot;</td>
<td>350</td>
</tr>
<tr>
<td></td>
<td></td>
<td>700</td>
<td>8&quot;</td>
<td>700</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,000</td>
<td>10&quot;</td>
<td>1,200</td>
</tr>
</tbody>
</table>

| Steel | Perforated Screen | 800-3500 | 2" | 110 |
| Steel | Brush-away         | 200-3500 | 3" | 110 |
| Steel | Scan-away          | 50-500   | 4" | 110 |
|       |                    | 80-300   | 6" | 110 |

Amiad Automatic Screen Filter- SAF Series

Features & Benefits
• Large filter area with reliable operating mechanism and simple construction.
• Automatic flushing.
• Self-cleaning mechanism even on marginal operation.
• Minimal volume of reject water allows operation in continuous flush mode.

<table>
<thead>
<tr>
<th>Size</th>
<th>Description</th>
<th>Micron</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>SAF - 1500</td>
<td>10-800</td>
</tr>
<tr>
<td>3&quot;</td>
<td>SAF - 1500</td>
<td>10-800</td>
</tr>
<tr>
<td>4&quot;</td>
<td>SAF - 1500</td>
<td>10-800</td>
</tr>
<tr>
<td>6&quot;</td>
<td>SAF - 3000</td>
<td>10-800</td>
</tr>
<tr>
<td>8&quot;</td>
<td>SAF - 4500</td>
<td>10-800</td>
</tr>
<tr>
<td>10&quot;</td>
<td>SAF - 6000</td>
<td>10-800</td>
</tr>
<tr>
<td>12&quot;</td>
<td>SAF - 6000</td>
<td>10-800</td>
</tr>
</tbody>
</table>

Rated for well water with small amounts of sand or reservoir water with small amounts of algae.
Amiad Automatic Screen Filter- Mini Sigma Series

The Amiad Mini Sigma Series is a small and lightweight yet durable filter; quick and easy to install, simple to operate, and requires minimal maintenance. The Mini Sigma filter was developed to handle low pressure operation, with a capacity of up to 352 gpm and with filtration degrees from 80-500 micron. Inlet/outlet connections are available in 2", 3", and 4" diameter. Filters include a 1.5” flush valve.

Features & Benefits
- Amiad’s unique suction-scanner cleaning technology
- Modular design with various installation configurations
- Polymeric filter - corrosion free
- Low water and energy consumption
- Compact design and small footprint
- Easy installation and low maintenance
- Amiad’s innovative and user-friendly ADI-P electronic controller, operated by a mobile app for advanced monitoring capabilities

<table>
<thead>
<tr>
<th>Amiad Mini Sigma Series Filter</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

Amiad Automatic Screen Filter- Filtomat M100 Series

The Amiad FILTOMAT M100 Series are mid-range automatic filters with a water-driven self-cleaning mechanism that doesn’t require external power source to operate.

Features & Benefits
- Large filtration area with reliable operating mechanism and simple construction.
- Automatic flushing.
- No interruption of downstream flow during flushing.
- Minimal volume of reject water.
- 25-1760 GPM

<table>
<thead>
<tr>
<th>Amiad Filtomat M100 Filters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
</tr>
<tr>
<td>2&quot;</td>
</tr>
<tr>
<td>3&quot;</td>
</tr>
<tr>
<td>3&quot;</td>
</tr>
<tr>
<td>4&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>M100 750-1500 GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>M100-4500</td>
</tr>
<tr>
<td>3&quot;</td>
<td>M100-4500</td>
</tr>
<tr>
<td>3&quot;</td>
<td>M100-6800</td>
</tr>
<tr>
<td>4&quot;</td>
<td>M100-6800</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>M100 4500 - 6800 GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>M100-4500</td>
</tr>
<tr>
<td>6&quot;</td>
<td>M100-4500</td>
</tr>
<tr>
<td>4&quot;</td>
<td>M100-6800</td>
</tr>
<tr>
<td>6&quot;</td>
<td>M100-6800</td>
</tr>
<tr>
<td>8&quot;</td>
<td>M100-6800</td>
</tr>
</tbody>
</table>

Fresno Pressurized Screen Filters

Features & Benefits
- All stainless steel construction combines lightweight strength and corrosion resistance with efficient flushing.

Filter Sizes & Types
- SPS Series - GPM 100 to 3200; 40 to 200 mesh stainless steel available
- SYS Series - GPM 100 to 3200; 40 to 200 mesh stainless steel available

<table>
<thead>
<tr>
<th>Fresno Filters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model No.</strong></td>
</tr>
<tr>
<td>SPS 6-1</td>
</tr>
<tr>
<td>SPS 6-2</td>
</tr>
<tr>
<td>SPS 6-3</td>
</tr>
<tr>
<td>SPS 8-4</td>
</tr>
<tr>
<td>SPS 8E-4</td>
</tr>
<tr>
<td>SPS 10-8</td>
</tr>
<tr>
<td>SYS 6-1</td>
</tr>
<tr>
<td>SYS 6-3</td>
</tr>
<tr>
<td>SYS 10-12</td>
</tr>
</tbody>
</table>

Netafim Circulating Screen Filter

Features & Benefits
- Maintains water flow without increased pressure loss.
- Automatically removes residue from screen during filtration.
- Adjusts to system’s actual flow rate for effective filtration and trouble-free operation.
- Reinforced stainless steel screen.
- Maximum anti-corrosion protection with a durable polyester protective coating applied electrostatically and oven-cured on a zinc-phosphate layer.

<table>
<thead>
<tr>
<th>Netafim Circulating Screen Filter</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
</tr>
<tr>
<td>2&quot;</td>
</tr>
<tr>
<td>3&quot;</td>
</tr>
<tr>
<td>4&quot;</td>
</tr>
<tr>
<td>6&quot;</td>
</tr>
<tr>
<td>8&quot;</td>
</tr>
<tr>
<td>10&quot;</td>
</tr>
</tbody>
</table>
Spin Clean® 4E Plastic - Features & Benefits
• Plastic construction is light in weight and chemical resistant.
• Two-piece threaded housing with o-ring seal for easy maintenance.
• Available with ball valve for flushing debris basin.
• Vinyl screen collars prevent debris from by-passing filter area.

Spin Clean® 4E Epoxy coated Steel
• No moving parts.
• All welded steel house.
• Scotchkote #306 fusion bond epoxy coating.
• Bonded three layer stainless steel screen.
• 150 psi operating pressure.
• Includes 3-way valve kit.
• Liquid filled pressure gauge.
• Air vent and brass ball valve.

Features & Benefits
• Sintered Screen
• Ideal choice for applications without electricity
• Creates centrifugal movement of water to keep the screen clean during irrigation process
• Sediments collect in the lower chamber to be purged by the control valve
• No increased head loss during operation
• Automatic flushing during irrigation

Rivulis Irrigation F3400 Metal Screen Filter with Continuous Circulation
The 3400 Metal Screen Filter with Continuous Circulation is used as a primary filter for water containing minimal quantity of suspended particles and from sources with good water pressure.

Jain API™ Spin Clean® Filters

Spin Clean® 4E Plastic - Features & Benefits
• Plastic construction is light in weight and chemical resistant.
• Two-piece threaded housing with o-ring seal for easy maintenance.
• Available with ball valve for flushing debris basin.
• Vinyl screen collars prevent debris from by-passing filter area.

Spin Clean® 4E Epoxy coated Steel
• No moving parts.
• All welded steel house.
• Scotchkote #306 fusion bond epoxy coating.
• Bonded three layer stainless steel screen.
• 150 psi operating pressure.
• Includes 3-way valve kit.
• Liquid filled pressure gauge.
• Air vent and brass ball valve.

F3400 Metal Screen Filters

<table>
<thead>
<tr>
<th>Size (Inch)</th>
<th>Screen Options (Mesh)</th>
<th>Flow Rate (GPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>80, 120, 150, or 200</td>
<td>105-210</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>175-350</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>350-700</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>760-1350</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>1270-2260</td>
</tr>
</tbody>
</table>

Connection Type: Flange

Jain Spin Clean® Filters

<table>
<thead>
<tr>
<th>Model</th>
<th>Sizes</th>
<th>Mesh</th>
<th>GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>4E Plastic</td>
<td>3/4&quot;</td>
<td>30-200</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>1&quot;</td>
<td>30-200</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>1 1/2&quot;</td>
<td>30-200</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td>2&quot;</td>
<td>30-200</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td>2&quot;</td>
<td>30-200</td>
<td>103</td>
</tr>
<tr>
<td></td>
<td>3&quot;</td>
<td>30-200</td>
<td>210</td>
</tr>
<tr>
<td></td>
<td>4&quot;</td>
<td>30-200</td>
<td>365</td>
</tr>
<tr>
<td></td>
<td>6&quot;</td>
<td>30-200</td>
<td>550 or 1000</td>
</tr>
<tr>
<td></td>
<td>8&quot;</td>
<td>30-200</td>
<td>1300</td>
</tr>
<tr>
<td></td>
<td>10&quot;</td>
<td>30-200</td>
<td>2200</td>
</tr>
<tr>
<td></td>
<td>12&quot;</td>
<td>30-200</td>
<td>2800</td>
</tr>
</tbody>
</table>

Netafim Double Chamber Epoxy Coated Steel Media Filter

Features & Benefits
• Double chambered filter allows for efficient filtration and backflush uniformity.
• Multiple mushrooms provide four times more open flow area ensuring uniform water collection and backflush.
• Each mushroom produces equal pressure during backflushing cleaning the entire sand media bed.
• Filter body made of epoxy coated carbon steel and the underdrain elements are PVC tube with mushroom diffusers.

<table>
<thead>
<tr>
<th># Filters/Size</th>
<th>Flow Range</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-16&quot;</td>
<td>42-80</td>
<td>72MFDBS1602</td>
</tr>
<tr>
<td>2-20&quot;</td>
<td>70-130</td>
<td>72MFDBS2002</td>
</tr>
<tr>
<td>2-24&quot;</td>
<td>105-200</td>
<td>72MFDBS2402</td>
</tr>
<tr>
<td>2-30&quot;</td>
<td>155-290</td>
<td>72MFDBS3002</td>
</tr>
<tr>
<td>2-36&quot;</td>
<td>220-415</td>
<td>72MFDBS3602</td>
</tr>
<tr>
<td>2-48&quot;</td>
<td>400-750</td>
<td>72MFDBS4802</td>
</tr>
</tbody>
</table>
### Features & Benefits
- Single chambered filter allows for efficient filtration and backflush uniformity.
- Injection molded PVC underdrain system with mushrooms and V slots provides cleaning across the entire sand media bed.
- Flow Range: 200-374 GPM
- Max Operating psi: 120
- Minimum Backflush Pressure Required: 29 psi downstream of filter during backflush
- Backflushing Flow Rate: 210 GPM
- 10” Diameter access port on tank dome secured with bolts
- Media Depth: 16”

### Netafim Sand Media Filters Single Chamber Epoxy Steel

### Fresco Sand Media Filter - Flow Guard Filter

**Features & Benefits**
- Effectively removes captured organic and inorganic contaminants from the media bed through backwashing with a stainless steel underdrain.
- Has the ability to filter a wide variety of contaminant to very low levels making it ideal for drip and micro irrigation.

**Filter Manifold Sizes:** 15”-48”

**Screen Sizes Typically:** 200 mesh

### Rivulis Irrigation F1700 Media Filter Systems

The Rivulis F1700 Media Filter systems offer unparalleled performance that keeps drip emitters clean while using a minimal amount of backwash water. Select the best-in-class filtration for your drip irrigation to improve yields, reduce operating costs, and save water.

**Features & Benefits**
- Uses sand media.
- Sold as modular systems for easier installation and system expansion.
- Precision-engineered underdrain with open area 3.6x greater than the inlet for greater flow-through and eliminating the need for gravel.
- Efficient backwash valve.
- Tank Sizes – 21", 32", & 48”
- System Flow Range: Up to 3,765 GPM (12 X 48”)

### Filters - Sand Media

### Filters - Sand Media

### Netafim Sand Media Filters Single Chamber Epoxy Steel

### Fresco Sand Media Filter - Flow Guard Filter

### Rivulis Irrigation F1700 Media Filter Systems

### F1700 Media Filter

<table>
<thead>
<tr>
<th>System (Tanks/ Size)</th>
<th>Max Flow Rate</th>
<th>Inlet / Outlet Manifold</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 21&quot;</td>
<td>120</td>
<td>4</td>
</tr>
<tr>
<td>3 x 21&quot;</td>
<td>180</td>
<td>4</td>
</tr>
<tr>
<td>2 X 32&quot;</td>
<td>270</td>
<td>4</td>
</tr>
<tr>
<td>3 x 32&quot;</td>
<td>405</td>
<td>4</td>
</tr>
<tr>
<td>2 x 48&quot;</td>
<td>625</td>
<td>6</td>
</tr>
<tr>
<td>3 x 48&quot;</td>
<td>940</td>
<td>6</td>
</tr>
<tr>
<td>4 X 48&quot;</td>
<td>1255</td>
<td>8</td>
</tr>
<tr>
<td>5 X 48&quot;</td>
<td>1565</td>
<td>10</td>
</tr>
<tr>
<td>6 X 48&quot;</td>
<td>1880</td>
<td>10</td>
</tr>
</tbody>
</table>

### Fresno Stainless Steel Sand Media Filter

<table>
<thead>
<tr>
<th>Model No.</th>
<th>GPM</th>
<th>Model No.</th>
<th>GPM</th>
<th>Model No.</th>
<th>GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>215</td>
<td>45-60</td>
<td>336</td>
<td>420-525</td>
<td>445T</td>
<td>760-1110</td>
</tr>
<tr>
<td>218</td>
<td>60-90</td>
<td>245</td>
<td>380-555</td>
<td>545T</td>
<td>950-1390</td>
</tr>
<tr>
<td>224</td>
<td>110-160</td>
<td>345</td>
<td>570-835</td>
<td>645T</td>
<td>1140-1665</td>
</tr>
<tr>
<td>324</td>
<td>175-240</td>
<td>445</td>
<td>760-1110</td>
<td>448T</td>
<td>850-1250</td>
</tr>
<tr>
<td>230</td>
<td>170-245</td>
<td>248</td>
<td>425-625</td>
<td>548T</td>
<td>1060-1565</td>
</tr>
<tr>
<td>330</td>
<td>250-370</td>
<td>348</td>
<td>640-940</td>
<td>648T</td>
<td>1275-1875</td>
</tr>
<tr>
<td>236</td>
<td>240-350</td>
<td>448</td>
<td>850-1250</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Lakos Pro II Media Filter**

**Features & Benefits**
- The PRO II carbon steel media offers the flexibility to change patterns, add tanks to existing systems and adjust system configuration without wasting manifold piping.
- The PRO II underdrain components feature a large surface area for efficient filtration, less channeling, and less frequent backwash cycles.
- Stainless steel is standard material on 48” diameter tanks and PVC is standard material on the 21” and 32” diameter tanks.

- **Filter Manifold Sizes:** 21”, 32”, & 48”
- **Flow Range:** Up to 3,140 GPM

**Hydrocyclone Sand Separators**

**Netafim Sand Separators - Hydrocyclone Filter**

Hydrocyclone Sand Separators are designed to remove sand particles from irrigation water with 90% efficiency.

**Features & Benefits**
- Conical shape accelerates the velocity of the water increasing centrifugal forces and maximizing separation.
- Easy to operate and maintain with no moving parts or screens.
- No headloss buildup or clogging during separation.
- Specially designed rubber cone/insert protects the neck from erosion and increases separation.
- Large holding capacity of sedimentation tank reduces flushing frequency.
- Media ranges from 120-600 mesh.

**Rivulis F1000 Sand Separator**

The Rivulis F1000 Hydrocyclone Sand Separator creates a centrifugal action that moves the water around the edge of the body, throwing the sand and heavy materials to the outside or the cyclone. The heavy materials then fall into the underflow tank to be collected. Rivulis provides the proper sized underflow tank to match the performance of each size of Hydrocyclone Sand Separator, preventing the collected sand from moving back into the water flow.

**Features & Benefits**
- All models include underflow chamber
- All models include legs
- All models include rubber, protective cone.
- Offers maximum pressure of 150 PSI

<table>
<thead>
<tr>
<th>Size</th>
<th>Flow Range GPM</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>3&quot;</td>
<td>11-17</td>
<td>74HC3</td>
</tr>
<tr>
<td>4&quot;</td>
<td>15-26</td>
<td>74HC4</td>
</tr>
<tr>
<td>6&quot;</td>
<td>29-44</td>
<td>74HC6</td>
</tr>
<tr>
<td>8&quot;</td>
<td>48-84</td>
<td>74HC8</td>
</tr>
<tr>
<td>8&quot;H</td>
<td>88-154</td>
<td>74HC8HGR3</td>
</tr>
<tr>
<td>12&quot;</td>
<td>198-321</td>
<td>74HC12FL4</td>
</tr>
<tr>
<td>16&quot;</td>
<td>264-409</td>
<td>74HC16FL4</td>
</tr>
<tr>
<td>20&quot;</td>
<td>409-683</td>
<td>74HC20FL6</td>
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<tr>
<td>24&quot;</td>
<td>638-990</td>
<td>74HC24FL6</td>
</tr>
<tr>
<td>30&quot;</td>
<td>1012-1629</td>
<td>74HC30FL6</td>
</tr>
</tbody>
</table>

**Fresno Sand Separators - 1600 Series**

**Features & Benefits**
- Hot dip galvanized inside and out for maximum protection.
- Low pressure loss.
- 98% efficiency on 200 mesh (74 microns) and larger.
- Modular design.
- Domed tank end for maximum strength.
- Hydro cyclone action removes high mass sediment.
- Variable flow (gpm) capacity with manifold and valving.
- Automatic purging of sediment tank available.
Fertilizer & Water Meters

Features & Benefits
- Both meters are light-weight and deliver a high level of accuracy, ±2%.
- Only one moving part, the impeller, is in contact with the liquid for minimum wear and the utmost reliability.
- Magnetically driven sealed register is guaranteed not to accumulate moisture or fog.
- Dry contact electrical output driven by a magnetic coupling that activates a reed switch creating a pulsed output for communicating with control and monitoring equipment.
- Corrosion resistant plastic components.
- PVC body is an angle type multi-jet meter. The multi-jet design assures an equally distributed load on the impeller minimizing wear and maintaining accuracy.
- No straight pipe installation requirements.

Specifications - Plastic
- Size: 3/4”
- Maximum Working Pressure: 72.5 psi
- Maximum Liquid Temperature: 122°F
- Body Material: Polypropylene
- Connections: Threaded
- Pulse Output: 0.1 or 1.0

Specifications - PVC
- Size: 1”
- Maximum Working Pressure: 145 psi
- Maximum Liquid Temperature: 122°F
- Body Material: PVC
- Connections: Threaded
- Pulse Output: 1.0

Reed Switch Registers

<table>
<thead>
<tr>
<th>Meter Size</th>
<th>Register Totalizer</th>
<th>Volume Unit</th>
<th>Pulse Output (GALS/PULSE)</th>
<th>Pointer Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4”</td>
<td>Gallon</td>
<td>Gallon X 10</td>
<td>0.1</td>
<td>x 0.01 Gallon x 0.1 Gallon x 1.0 Gallon</td>
</tr>
<tr>
<td>3/4”</td>
<td>Gallon</td>
<td>Gallon X 10</td>
<td>1.0</td>
<td>x 0.01 Gallon x 1.0 Gallon</td>
</tr>
<tr>
<td>1”</td>
<td>Gallon</td>
<td>Gallon X 100</td>
<td>1.0</td>
<td>x 0.1 Gallon</td>
</tr>
</tbody>
</table>
**Water Meters**

**Netafim Water Meters- WMR Series**

‘WMR’ Water Meters contain an in-line axial turbine which allows foreign matter to pass through the meter without clogging. Wide clearances in the measuring chamber provide full pipe flow measurements and high reliability.

**‘WMR’ Water Meter Specifications:**
- Size: 2”
- Maximum Working Pressure: 230 psi
- Maximum Liquid Temperature: 131°F
- Body Material: Cast Iron with Polyester Coating
- Connections: Male Pipe Thread
- Register Options: Reed Switch, Photo Diode or MPE Digital
- Straight Pipe Installation Requirement: 10 x D upstream and 5 x D downstream (D = meter size)

<table>
<thead>
<tr>
<th>Performance Data</th>
<th>Meter Size</th>
<th>Lowest Flow Rate</th>
<th>Nominal Flow Rate</th>
<th>Maximum Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2” WMR</td>
<td>8.8 GPM</td>
<td>88 GPM</td>
<td>110 GPM</td>
</tr>
</tbody>
</table>

**Netafim Water Meters- IRT Series**

IRT Water Meters are ideal for moderate to dirty water conditions. The specially designed paddle wheel measuring device provides a free water passage resulting in low head loss and the ability to accurately measure water with high levels of impurities or debris. Accuracy is achieved over a wide range of flows.

**Specifications:**
- Sizes: 3”, 4”, 6”, 8” and 10”
- Maximum Working Pressure: 230 psi
- Maximum Liquid Temperature: 140°F
- Body Material: Cast Iron with Polyester Coating
- Connections: Flange
- Register Options: Reed Switch or MPE Digital
- ‘WST’ Straight Pipe Installation Requirement: 5 D* upstream and 2 x D downstream
- ‘WT’ Straight Pipe Installation Requirement: 10 D upstream and 5 x D downstream.

*D = meter size

**Performance Data**

<table>
<thead>
<tr>
<th>Meter Size</th>
<th>Lowest Flow Rate</th>
<th>Nominal Flow Rate</th>
<th>Max Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>3”</td>
<td>45 GPM</td>
<td>400 GPM</td>
<td>500 GPM</td>
</tr>
<tr>
<td>4”</td>
<td>50 GPM</td>
<td>500 GPM</td>
<td>688 GPM</td>
</tr>
<tr>
<td>6”</td>
<td>65 GPM</td>
<td>1,100 GPM</td>
<td>1,375 GPM</td>
</tr>
<tr>
<td>8”</td>
<td>130 GPM</td>
<td>1,980 GPM</td>
<td>2,475 GPM</td>
</tr>
<tr>
<td>10”</td>
<td>300 GPM</td>
<td>3,300 GPM</td>
<td>4,125 GPM</td>
</tr>
</tbody>
</table>

**Netafim Water Meters- WST & WT Series**

WST and WT Water Meters use a double magnetic transmission to drive the register and this unique design enables the meter to handle high loads of sand since only the impeller is in contact with the water. Transmission gears are located in a sealed, dry compartment which has no contact with the water. The impeller, located in the center of the flow, allows for very accurate measurements over a wide range of flows. Built-in straightening vanes in the WST meters reduce the length of straight pipe required before and after the meter.

**Specifications:**
- ‘WST’ Sizes: 3”, 4”, 6” and 8”
- ‘WT’ Sizes: 10” and 12”
- Maximum Working Pressure: 230 psi
- Maximum Liquid Temperature: 140°F
- Body Material: Cast Iron with Polyester Coating
- Connections: Flange
- Register Options: Reed Switch, Photo Diode or ER Digital
- ‘WST’ Straight Pipe Installation Requirement: 5 D* upstream and 2 x D downstream
- ‘WT’ Straight Pipe Installation Requirement: 10 D upstream and 5 x D downstream.

<table>
<thead>
<tr>
<th>Performance Data</th>
<th>Meter Size</th>
<th>Lowest Flow Rate</th>
<th>Nominal Flow Rate</th>
<th>Max Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3” ‘WST’</td>
<td>4 GPM</td>
<td>528 GPM</td>
<td>660 GPM</td>
</tr>
<tr>
<td></td>
<td>4” ‘WST’</td>
<td>6 GPM</td>
<td>1,013 GPM</td>
<td>1,266 GPM</td>
</tr>
<tr>
<td></td>
<td>6” ‘WST’</td>
<td>15 GPM</td>
<td>1,145 GPM</td>
<td>1,431 GPM</td>
</tr>
<tr>
<td></td>
<td>8” ‘WST’</td>
<td>38 GPM</td>
<td>1,980 GPM</td>
<td>2,475 GPM</td>
</tr>
<tr>
<td></td>
<td>10” ‘WT’</td>
<td>44 GPM</td>
<td>3,300 GPM</td>
<td>4,125 GPM</td>
</tr>
<tr>
<td></td>
<td>12” ‘WT’</td>
<td>51 GPM</td>
<td>4,400 GPM</td>
<td>5,500 GPM</td>
</tr>
</tbody>
</table>
Features & Benefits
- The McCrometer Mc Propeller flowmeter's self-cleaning design uses a flexible drive shaft running within a curved, stainless steel "ell" that makes it easier to shed debris.
- The positioning of the impeller directly in the flow stream assures full-flow measurement and greater accuracy.
- The McCrometer Propeller flowmeter comes with a standard instantaneous flow-rate indicator and straight-reading totalizer. An optional electronic FlowCom register is also available.
- McCrometer's McPropeller flowmeters install easily and require little maintenance. All their components are easily serviced in the field.

### McCrometer Water Meters - ML 100 & MF 100

<table>
<thead>
<tr>
<th>MF 100 Performance Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meter &amp; Nominal Pipe Size (Inches)</td>
</tr>
<tr>
<td>Maximum Flow (GPM)</td>
</tr>
<tr>
<td>Minimum Flow (GPM)</td>
</tr>
<tr>
<td>Pressure Rating</td>
</tr>
</tbody>
</table>

### MF 100 Performance Data

<table>
<thead>
<tr>
<th>Maximum Flow (GPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200</td>
</tr>
</tbody>
</table>

### ML 100 Performance Data

<table>
<thead>
<tr>
<th>Minimum Flow (GPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>90</td>
</tr>
</tbody>
</table>

### McCrometer Water Meters - M0300 Bolt-on-Saddle

Features & Benefits
- Long-lasting stainless steel ball bearings.
- Epoxy-coated carbon steal body.
- Straightening vanes for optimum flow profiles. (Option)
- Corrosion-resistant impeller made of durable polymer material, factory calibrated to retain accuracy.
- Magnetic coupling system isolates register and drive system from flow and allows unrestricted impeller movement.
- Self-cleaning design that prevents the build-up of solids.

<table>
<thead>
<tr>
<th>M0300 Performance Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meter &amp; Nominal Pipe Size (Inches)</td>
</tr>
<tr>
<td>Maximum Flow (GPM)</td>
</tr>
<tr>
<td>Minimum Flow (GPM)</td>
</tr>
<tr>
<td>Pressure Rating</td>
</tr>
</tbody>
</table>

### Signet 8150 Battery Operated Flow Totalizer

Features & Benefits
- The Signet 8150 Battery Operated Flow Totalizer is compatible with the Signet 515 and 525 flow sensors, and will provide years of dependable operation. The large digital display indicates flow rate and totalized flow volume simultaneously.
- The intuitive software design and four-button keypad provide for simple operation while setting screen displays and programming the system. Calibration can be easily performed by entering the AutoCal feature and entering a value to match an external reference. Screen displays can be modified to suit the user's needs; along with the flow rate, any of the three totalizers can be selected as the displayed totalizer. Users can quickly scroll through the totalizers simply by pressing any key on the keypad. A display averaging feature is included for applications where the flow in the pipe fluctuates. For applications where flow stops and starts due to production needs, a no-flow indicator will display the hours of non-flow.

### 8150 Flow Totalizer

- Large LCD display with averaging
- 4-digit upper line and 8-digit lower line display
- Custom digital calibration. Permanent readings in:
  - acre-inch 0.XX
  - acre-feet 0.XXX
  - gallons/1,000
- Integral power is supplied by two 3.6 volt lithium AA batteries with a 4-year life
- Relay/O.C. Output: None
- Current Output: None
- Compatible Sensors: 515, 525 Flow Sensors
- Built-in security coding for tamper-resistance
- Battery icon indicator
- Pulse output for telemetry
- Three totalizers: 2 resettable and 1 permanent, user-selectable
- Mounting versatility
- No-flow indicator
- Simple push-button operation
- Auto-calibration

<table>
<thead>
<tr>
<th>Signet 8150 Flow Totalizer</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFR#</td>
</tr>
<tr>
<td>------</td>
</tr>
<tr>
<td>3-8150-1</td>
</tr>
<tr>
<td>3-8150-1P</td>
</tr>
<tr>
<td>3-8150-P0</td>
</tr>
<tr>
<td>3-8150-P1</td>
</tr>
<tr>
<td>3-8150-T0</td>
</tr>
</tbody>
</table>
Valves

Netafim Series 80 Nylon Control Valve

Series 80 Nylon Control Valves have no moving parts and high resistance to corrosive water. The built-in 2-way solenoid has a low power requirement.

Specifications
- Available Sizes: 3/4", 1", 1 1/2", and 2"
- Maximum Working Pressure: 150 psi
- Maximum Water Temperature: 140° F
- Connections: Female Threaded NPT
- Electrical Specifications:
  » Voltage - Standard 24 VAC, 60 Hz
  » Inrush Current - .22A
  » Holding Current - .095A

Materials
- Body and Bonnet: Glass Reinforced Nylon
- Spring: Steel (AISI 302)
- Nuts, Bolts, Washers: Stainless Steel (304)

Netafim Nylon & PVC Valves

Specifications
- Recommended Operating Pressure (psi): Nylon - 15 minimum to 145 maximum
- PVC - 7 minimum to 145 maximum
- Maximum Water Temperature: 140° F Optional
- Optional Functions: Manual, Electric, Pressure Reducing, Pressure Sustaining or Remote Control and more functions

Materials
- Nylon Valve Body, Bonnet, Seat: Glass Reinforced Polyamide (GRP)
- PVC Valve Body: uPVC
- Spring: Stainless Steel (AISI 302)
- Nuts, Bolts, Washers: Zinc Coated Steel (BS 5216)
- Diaphragm: Natural Rubber
- Connections: Threaded - ANSI (NPT Female)
Valves - Iron & Bronze

Netafim Iron Valves

Iron Valves are available in a wide range of sizes and flow rates to cover most applications. The unique design allows a straight flow pattern with low friction loss. A direct sealing diaphragm, the valves only moving part, operates by pipeline or external pressure.

Specifications
• Optional Functions: Manual, Electric, Pressure Reducing, Pressure Sustaining, Hydraulic Remote Control, Quick Relief, Flow Control, Surge Anticipating, Float Control and more
• Maximum Water Temperature: 176° F
• Connections:
  » Threaded ANSI NPT Female
  » Grooved ANSI/AWWA C-606
  » Flanged ANSI CL-125

Materials
• Body and Bonnet:
  » Cast Iron (ASTM A 125 CLB)
• Spring: Stainless Steel (AISI 302)
• Nuts, Bolts, Washers: Stainless Steel (BS 5216)
• Diaphragm: Natural Rubber

<table>
<thead>
<tr>
<th>Size</th>
<th>Maximum Recommended Flow Rate (GPM)</th>
<th>Operating Pressure Range (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1”</td>
<td>44</td>
<td>17-230</td>
</tr>
<tr>
<td>1.5”</td>
<td>110</td>
<td>17-230</td>
</tr>
<tr>
<td>2”</td>
<td>176</td>
<td>21-230</td>
</tr>
<tr>
<td>323</td>
<td>176</td>
<td>21-230</td>
</tr>
<tr>
<td>3”</td>
<td>396</td>
<td>17-230</td>
</tr>
<tr>
<td>4”</td>
<td>440</td>
<td>17-230</td>
</tr>
<tr>
<td>6”</td>
<td>1,540</td>
<td>21-230</td>
</tr>
<tr>
<td>868</td>
<td>1,540</td>
<td>21-230</td>
</tr>
<tr>
<td>8”</td>
<td>2,112</td>
<td>10-230</td>
</tr>
<tr>
<td>10”</td>
<td>4,268</td>
<td>10-230</td>
</tr>
<tr>
<td>12”</td>
<td>6,160</td>
<td>10-230</td>
</tr>
</tbody>
</table>

Features & Benefits
• Large water passages allow the chamber of the valve to vent quickly, providing immediate protection.
• The “no slam” design allows the valve to close slowly, reducing the danger of water hammer when the system goes back to normal. The closure speed is adjustable.
• The set point of the valve is adjustable allowing the user the flexibility to change the setting if the requirements change. A large pressure range is covered with one spring.
• Hydraulic valve with direct sealing diaphragm.
• No stem, shaft or bearings within the water passage.
• Available in iron with threaded, grooved, and flanged connections.

Valve Sizes: 2”-12”
Flow Rates (GPM): 480-16,800
Max Working Pressure: 235 (For all sizes)

Netafim Quick Release Valve

Features & Benefits
• Changes in flow do not affect the upstream pressure in the valve since the PSNO valve is always installed downstream from the filter.
• Quick reaction time of the PSNO valve. The valve goes into sustaining mode slightly before the filter starts flushing.
• Manual override on solenoid for easy adjustments.

Max Working Pressure:
• PVC 3” & 4” 115 psi
• PVC 6” 145 psi
• Iron ALL 230 psi

Netafim Pressure Sustaining Normally Open Valves

Features & Benefits
• Available in a wide range of sizes.
• Changes in flow do not affect the upstream pressure in the valve since the PSNO valve is always installed downstream from the filter.
• Quick reaction time of the PSNO valve. The valve goes into sustaining mode slightly before the filter starts flushing.
• Manual override on solenoid for easy adjustments.

Netafim PSNO Valves

<table>
<thead>
<tr>
<th>Size</th>
<th>Flow Range (GPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3”</td>
<td>40-400</td>
</tr>
<tr>
<td>4”</td>
<td>60-600</td>
</tr>
<tr>
<td>6”</td>
<td>130-1,300</td>
</tr>
<tr>
<td>3”</td>
<td>40-400</td>
</tr>
<tr>
<td>4”</td>
<td>60-600</td>
</tr>
<tr>
<td>6”</td>
<td>130-1,300</td>
</tr>
<tr>
<td>868</td>
<td>150-1,500</td>
</tr>
<tr>
<td>8”</td>
<td>200-2000</td>
</tr>
<tr>
<td>10”</td>
<td>350-3,500</td>
</tr>
<tr>
<td>12”</td>
<td>480-4,800</td>
</tr>
</tbody>
</table>
Brass Ball Valves

Features & Benefits
• Full port brass valve. Quick to operate with ability to see position of the valve.
• Sizing: 1/2” - 4”

PVC Ball Valves

Features & Benefits
• Ball Valves are quick to operate and allow you to see the position of the valve - open or closed.
• Ends: Slip, threaded, or union
• Sizing: 1/2” - 4”

Butterfly Valves

Features & Benefits
• Wafer-style design for a seal against two-way pressure to prevent backflow in single-direction systems.
• Stainless disks available.
• Style: Lever Handle or Gear
• Sizing: 1/2” - 12”

Brass Gate Valves

Features & Benefits
• Brass Gate Valve with non-rising stem. Valve pressure rating 200 psi/14 bar non-shock cold working pressure.
• Sizing: 1/2” - 4”
**Netafim Pressure Regulators**

**Features & Benefits**
- Instant response to variations in pressure assuring that outlet pressure will remain constant regardless of inlet pressure.
- Non-corrosive, high quality plastic and brass bodies withstand commonly used fertilizers and chemicals.
- Sealed regulating unit with stainless steel spring and a screw are field replaceable and easy to maintain.
- Built-in operating indicator visually shows when proper outlet pressure is achieved (except 3/4" low flow).

<table>
<thead>
<tr>
<th>Plastic</th>
<th>3/4&quot; low flow</th>
<th>.25 - 4.4 GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic</td>
<td>3/4&quot;</td>
<td>4.5 - 17.6 GPM</td>
</tr>
<tr>
<td>Plastic</td>
<td>1 1/2&quot;</td>
<td>11 - 35 GPM</td>
</tr>
<tr>
<td>Brass</td>
<td>2&quot; x 4</td>
<td>22 - 70 GPM</td>
</tr>
<tr>
<td>Brass</td>
<td>2&quot; x 6</td>
<td>33 - 105.6 GPM</td>
</tr>
<tr>
<td>Brass</td>
<td>3&quot; x 10</td>
<td>35 - 175 GPM</td>
</tr>
</tbody>
</table>

**Senninger Pressure Regulators**

**Features & Benefits**
- Low hysteresis is important for accurate regulation when working with varying inlet pressures. Hysteresis is the difference in outlet pressure when the inlet pressure is increasing to a certain psi above the regulating pressure, and then decreasing to that same psi.
- Senninger regulators operating at maximum flow experience no more than 4 psi friction loss when fully open. Inlet pressure should be at least 5 psi higher than the outlet pressure to overcome the fully open, maximum flow friction loss.

<table>
<thead>
<tr>
<th>PRL</th>
<th>6 - 10 psi</th>
<th>.5 - 5 GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>15 - 40 psi</td>
<td>.1 - 8 GPM</td>
</tr>
<tr>
<td>PMR</td>
<td>6 - 10 psi</td>
<td>4 - 16 GPM</td>
</tr>
<tr>
<td></td>
<td>15 - 60 psi</td>
<td>2 - 20 GPM</td>
</tr>
<tr>
<td>PR-HF</td>
<td>10 - 60 psi</td>
<td>10 - 32 GPM</td>
</tr>
<tr>
<td>PRXF</td>
<td>10 psi</td>
<td>20 - 80 GPM</td>
</tr>
<tr>
<td></td>
<td>15 psi</td>
<td>20 - 85 GPM</td>
</tr>
<tr>
<td></td>
<td>20 psi</td>
<td>20 - 90 GPM</td>
</tr>
<tr>
<td></td>
<td>25 psi</td>
<td>20 - 95 GPM</td>
</tr>
<tr>
<td></td>
<td>30 - 60 psi</td>
<td>20 - 100 GPM</td>
</tr>
</tbody>
</table>

---

**Netafim Pressure Regulators**

<table>
<thead>
<tr>
<th>psi</th>
<th>3/4&quot; LF Model Numbers</th>
<th>3/4&quot; Model Numbers</th>
<th>1 1/2&quot; Model Numbers</th>
<th>2&quot; X 4 Model Numbers</th>
<th>2&quot; X 6 Model Numbers</th>
<th>3&quot; X 10 Model Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>-</td>
<td>32PRV.75-09V2K</td>
<td>32PRV1.5-09V2K</td>
<td>32PRV2-09V2K</td>
<td>32PRV2-60V2K</td>
<td>32PRV3-1009V2K</td>
</tr>
<tr>
<td>12</td>
<td>-</td>
<td>32PRV.75-12V2K</td>
<td>32PRV1.5-12V2K</td>
<td>32PRV2-12V2K</td>
<td>32PRV2-612V2K</td>
<td>32PRV3-1012V2K</td>
</tr>
<tr>
<td>15</td>
<td>32PRV.75-LF15V2</td>
<td>32PRV1.5-15V2K</td>
<td>32PRV2-15V2K</td>
<td>32PRV2-615V2K</td>
<td>32PRV3-1015V2K</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>32PRV.75-LF20V2</td>
<td>32PRV1.5-20V2K</td>
<td>32PRV2-20V2K</td>
<td>32PRV2-620V2K</td>
<td>32PRV3-1020V2K</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>32PRV.75-LF25V2</td>
<td>32PRV1.5-25V2K</td>
<td>32PRV2-25V2K</td>
<td>32PRV2-625V2K</td>
<td>32PRV3-1025V2K</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>-</td>
<td>32PRV.75-30V2K</td>
<td>32PRV1.5-30V2K</td>
<td>32PRV2-30V2K</td>
<td>32PRV3-1030V2K</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>32PRV.75-LF35V2</td>
<td>32PRV1.5-35V2K</td>
<td>32PRV2-35V2K</td>
<td>32PRV2-635V2K</td>
<td>32PRV3-1035V2K</td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>32PRV.75-LF43V2</td>
<td>32PRV1.5-43V2K</td>
<td>32PRV2-43V2K</td>
<td>32PRV2-643V2K</td>
<td>32PRV3-1043V2K</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>-</td>
<td>32PRV.75-50V2K</td>
<td>32PRV1.5-50V2K</td>
<td>32PRV2-50V2K</td>
<td>32PRV3-1050V2K</td>
<td></td>
</tr>
<tr>
<td>57</td>
<td>-</td>
<td>-</td>
<td>32PRV1.5-57V2K</td>
<td>32PRV2-57V2K</td>
<td>32PRV3-1057V2K</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>-</td>
<td>32PRV.75-65V2K</td>
<td>32PRV1.5-65V2K</td>
<td>32PRV2-65V2K</td>
<td>32PRV3-1065V2K</td>
<td></td>
</tr>
</tbody>
</table>
Air Vents

Netafim Guardian Air Vents

Features & Benefits
• Ensures vent closure as water fills the system, remains open when air pressure reaches the following:
  5 psi for 3/4” and 1” Guardian
  10 psi for 2” Guardian
  8 psi for 3” Guardian
• Large capacity vents dampen water hammer preventing pipes and fittings from cracking or bursting.
• Made of corrosion-resistant reinforced UV protected composite materials - no metal parts to rust or corrode, no need for spare parts.
• Guardian Air Vent with Shrader Valve is ideal for measuring local line pressure.

<table>
<thead>
<tr>
<th>Netafim Guardian Air Vents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Air Vent</strong></td>
</tr>
<tr>
<td>3/4” Guardian</td>
</tr>
<tr>
<td>3/4” Guardian w/ shrader valve</td>
</tr>
<tr>
<td>1” Guardian</td>
</tr>
<tr>
<td>1” Guardian w/ shrader valve</td>
</tr>
<tr>
<td>2” Guardian</td>
</tr>
<tr>
<td>3” Guardian</td>
</tr>
</tbody>
</table>

Netafim Automatic Continuous Acting Air Vent

Features & Benefits
• Aerodynamic float design ensures vent closure as water fills the system, remains open when air pressure reaches 12 psi.
• Large capacity vents dampen water hammer preventing pipes and fittings from cracking or bursting.
• Unique rolling seal feature allows gradual opening, closing and self-cleaning.
• Made of corrosion-resistant UV protected nylon - no metal parts to rust or corrode, no need for spare parts.

3/4” and 1” Automatic Max Operating Pressure: 240 psi

Netafim Pro Air Vents

Features & Benefits
• Float and seal assembly are enclosed in a one-piece, easily replaceable unit - independent of the air vent body.
• Sealing assembly, with its unique patented rolling seal feature which allows gradual opening, closing and self-cleaning, is contained in the one-piece float assembly.
• Threaded discharge outlet allows connection of additional piping for venting and drainage.

Specifications
• Working pressure range: 1 - 150 psi
• Maximum working temperature: 140° F
• Available size: 2” NPT female threaded

<table>
<thead>
<tr>
<th>Netafim Pro Air Vents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Air Vent</strong></td>
</tr>
<tr>
<td>2” Pro</td>
</tr>
</tbody>
</table>

Netafim Dynamic Air Vent

Features & Benefits
• Rolling diaphragm principle allows air to be discharged in a controlled and gradual manner preventing slam and surges.
• Reacts very quickly to vacuum surges by intaking large amounts of air - three times more air than other vents.
• Air vent is normally closed when the line is not operating preventing debris and contaminants from entering the pipeline.
• Light-weight and small for easy installation with simple and reliable operation.
• Built-in outlet connection for surplus water drainage.
• Corrosion-resistant composite materials.

Available Size: 2” & 3” NPT Male Threaded Max Operating Pressure 150 psi

<table>
<thead>
<tr>
<th>Netafim Dynamic Air Vent</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Air Vent</strong></td>
</tr>
<tr>
<td>2” Dynamic</td>
</tr>
<tr>
<td>3” Dynamic</td>
</tr>
</tbody>
</table>
**Air Vents**

**Features & Benefits**
- Eliminates air pockets within a system zone
- Releases air from the drip line when the zone is turned on
- Allows air to freely enter the system when the zone is shut down
- Prevents vacuum conditions and stops debris or particles from entering the drip line via the drip emitters or drip line outlets
- Durable, weather resistant and non-corrosive material

VBM 1” Closes at: 5 psi
VBM 1” Max operating Pressure: 80 psi

---

**Irritec Kinetic Air Vent and Vacuum Relief Valve**

**Features & Benefits**
- Large orifice.
- Durable cast aluminum body combines lightweight strength and corrosion resistance.
- Synthetic rubber seal for positive seal even with low head applications.

**Fresno Series 3000 Air Vent & Vacuum Relief Valve**

**Features & Benefits**
- Promotes full line capacity and provides vacuum protection.
- Standard NPT pipe threads for ease of installation.
- Steel or plastic risers.

<table>
<thead>
<tr>
<th>Vent Sizes (Inches)</th>
<th>Max psi</th>
<th>Orifice Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>150</td>
<td>1.75</td>
</tr>
<tr>
<td>3</td>
<td>125</td>
<td>5.00</td>
</tr>
<tr>
<td>4</td>
<td>100</td>
<td>7.00</td>
</tr>
</tbody>
</table>

**Fresno Series 3500 Continuous Acting Air Vent**

**Features & Benefits**
- Promotes full line capacity and provides vacuum protection.
- Standard NPT pipe threads for ease of installation.
- Steel or plastic risers.

<table>
<thead>
<tr>
<th>Vent Sizes (Inches)</th>
<th>Max psi</th>
<th>Orifice Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>150</td>
<td>3.30</td>
</tr>
<tr>
<td>3</td>
<td>125</td>
<td>3.30</td>
</tr>
<tr>
<td>4</td>
<td>100</td>
<td>4.00</td>
</tr>
</tbody>
</table>

---

**Rivulis Irrigation Air Valves**

The Rivulis Air Valve and Manual valve lines are essential components to all drip and micro irrigation systems. The Air Valves help to protect the system and ensure proper operation, including reduction of soil ingestion upon system shut-down.

**Features & Benefits**
- Air & Vacuum Release
  - Remain open to discharge air from a system without closing prematurely. Will function under air pressures up to 8 psi.
  - Closes and remain drip-tight when water enters the system – even with water pressures as low as 3 psi (1.5 psi for continuous and combination air valves).
  - Lightweight, durable and compact; suitable for both metal and plastic pipes.

---

**Air Valves - Application Table**

<table>
<thead>
<tr>
<th>Location in System</th>
<th>Air &amp; Vacuum Release Valves</th>
<th>Continuous Air Valves</th>
<th>Combination Air Valves</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump stations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upstream of pump check valves</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>On filter inlet manifolds</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>On filter backflush manifolds</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System Head</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At all high points</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before water meters</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distribution Network</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At all high points</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Every 1,300 feet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At the top of downhill sloping pipes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At the end of long distribution pipes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upstream of on/off field control valves</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Downstream of on/off field control valve</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Maximum operating pressure: 150 PSI
Drip Tape, Dripline, PE Hose, & Layflat

Netafim Streamline Plus Series

Features & Benefits
- Fortifies against splitting or bursting under high pressures required for proper flushing.
- Flap outlet protection impedes soil ingestion and root intrusion.

Streamline 630
Wall Thickness: 5, 6, 8, 10, & 13 mil
GPH/Emitter Rates: 0.16, 0.24, 0.36

Streamline 820
Wall Thickness: 6, 8, & 10 mil
GPH/Emitter Rates: 0.16, 0.24, 0.36

Streamline 875
Wall Thickness: 6, 8, 10, 12, 13 & 15 mil
GPH/Emitter Rates: 0.16, 0.24, 0.36

Netafim Typhoon Plus™ Series

Features & Benefits
- Low filtration requirement of 120 mesh.
- Wide cross-section flow path for larger particles.
- Large filter inlets for secondary filtration.

Typhoon 630
Wall Thickness: 8, 10, 13, & 15 mil
GPH/Emitter Rates: 0.11, 0.16, 0.22, 0.36, 0.49

Typhoon 875
Wall Thickness: 8, 10, 12, 13, & 15 mil
GPH/Emitter Rates: 0.18, 0.25, 0.36, 0.58

Netafim DripNet PC™ Series

Features & Benefits
- Pressure compensating dripline
- Wide regulation pressure range from 6 to 36 psi.
- Injection molded drippers

Inside Diameter: 0.636", 0.875", or 0.990"
Wall Thickness: 13, 15, 18, & 25, mil
GPH/Emitter Rates: 0.16, 0.26, 0.32 & 0.42
Common Spacings: 8", 12", 18", 24", & 30"
Drip Tape

**T-Tape Drip Tape by Rivulis Irrigation**

T-Tape Drip Tape is the most trusted and recognized drip tape in the world and has the most extensive offering of product configurations that include numerous diameters, wall thicknesses, spacings, and flow rates.

**Features & Benefits**
- Plug resistant design
- Expanding flow channel
- Vortex flow action

**Product Options**
- Tape Diameter: 5/8”, 7/8”, 11/8”, 1 3/8”
- Wall Thickness: 5, 6, 8, 10, 12, & 15 mil
- Flow Rate:
  - Ultra low to low - 0.15-0.27 gpm/100’
  - Medium - 0.34 - 0.50 gpm/100’
  - High - 0.67 - 1.34 gpm/100’
- Common Spacings: 4”, 6”, 8”, 12”, 16”

**D900 Drip Line by Rivulis**

D900’s design minimizes friction loss through its small design, and its uniquely engineered flow path that minimizes exponent. In other words, D900 allows you to achieve longer distances per row while still maintaining high uniformity.

**Features & Benefits**
- Large turbulent flow path emitters are injection molded and welded into a seamless drip tape.

**D900**
- Tape Diameter: 5/8” & 7/8”
- Wall Thickness: 5, 6, 8, 10 mil
- GPH/Emitter Rates: 0.13, 0.22, 0.31
- Common Spacings: 6”, 8”, 12”, 14”, 16”

**Ro-Drip Drip Tape by Rivulis Irrigation**

Ro-Drip Drip Tape is specifically engineered to deliver uniform flow rates while addressing the most difficult maintenance issue faced by drip growers today: blockage during high contaminant conditions. Our patented Ro-Drip Drip Tape design employs two independent anti-plugging systems: Vortex Flow Action, which resists clogs by keeping particulates in suspension; and our exclusive Expanding Flow Channel, which reacts to blockages by actually changing shape, often purging even the toughest particulate build-up.

**Features & Benefits**
- Plug resistant design
- Expanding flow channel
- Vortex flow action

**Product Options**
- Tape Diameter: 5/8”, 7/8”
- Wall Thickness: 5, 6, 8, & 10 mil
- Flow Rate:
  - Low - 0.25 - 0.33 gpm/100’
  - Medium - 0.33 - 0.50 gpm/100’
  - High - 0.67 - 1.00 gpm/100’
- Common Spacings: 4”, 8”, 12”, 16”

**D1500 Drip Line by Rivulis**

Rivulis D1500 features one of the largest inlet filters for flat drip emitters on the market. The additional filtration area provides outstanding protection against clogging.

**Features & Benefits**
- Large turbulent flow path emitters are injection molded and welded into a seamless drip tape.

**D1500**
- Tape Diameter: 5/8”, 7/8”, 1”, 1 3/8”
- Wall Thickness: 5, 6, 8, 10, 12, 15, 18, 24, & 36 mil
- GPH/Emitter Rates: 0.18, 0.26, 0.32, 0.53 and 0.79
- Common Spacings: 8”, 12”, 14”, 16”, 18”, 20”, 24”
**Toro Aqua-Traxx® Series**

Aqua-Traxx with the PBX Advantage offers a Proportionally Balanced Cross-Section (PBX) design that optimizes flowpath turbulence and increases durability, clog resistance and uniformity. Choose emitter spacing from 4 to 36 inches — with no cost increase — for precise placement and flexibility when designing your system. Find the perfect tape for your application with a wide variety of available flow rates, wall thicknesses and internal diameters.

**Features & Benefits**
- Emitter spacing options for all soils—at no additional cost
- Widest selection of flow rates
- Superior clog resistance
- Aqua-Traxx® requires only 140-mesh filtration.
- Wide pressure operating range:
  - PBX 4-15 psi

**Aqua-Traxx**
- Tape Diameter: 5/8", 7/8", 1", 1-1/8" & 1 -3/8"
- Wall Thickness: 4, 5, 6, 8, 10, 12, 13, & 15 mil
- GPH/Emitter Rates: 0.07, 0.09, 0.10, .13, 0.15, 0.20, 0.27, 0.34, & 0.53
- Common Spacings: 4" - 36"

**Toro FlowControl® Series**

Toro FlowControl® is the only flow-regulating drip tape available, delivering more uniform output even in the most challenging terrain. The innovative emitter design regulates flow with changes in water pressure. More uniformity can lead to better yields even in longer runs or hilly terrain.

**Features & Benefits**
- An extra-large Proportionally Balanced Cross-section flow-path design to help prevent clogging.
- FlowControl™ requires just 150-mesh filtration.
- Wide pressure operating range:
  - FlowControl™ 4-25 psi

**FlowControl™**
- Tape Diameter: 5/8", 7/8", & 1 - 3/8"
- Wall Thickness: 6, 8, 10, 12, & 15 mil
- GPH/Emitter Rates: 0.13, 0.20, 0.27
- Common Spacings: 6"- 24"
**Features & Benefits**

- Anti-vacuum mechanism prevents suction of dirt into the dripline, providing the critical protection needed against dripper plugging.
- Wide Compensating range maintains a constant uniform flow - longer runs and steep terrains are irrigated with high uniformity.
- Exclusive Non-Leakage (CNL) Mechanism - (Optional) Prevents system drainage when pressure is turned off at the end of each irrigation cycle. Ensures uniform water distribution during pulse irrigation.
- Root intrusion barrier prevents roots from penetrating the dripper’s mechanism.

Line Diameter: 0.54", 0.57", 0.62", 0.69", 0.82"
Wall Thickness: 16, 17, 18, 20, & 820 mil
GPH/Emitter Rates: 0.26, 0.42, 0.53, 0.61, 0.92, 1.0
Common Spacings: 18", 24", 30", 36", 42", 48", 60"

**Netafim DripNet PC™**

- Heavywall solution for irrigating crops with long runs and steep topographies.
- Large filtration area prevents penetration of dirt particles into the dripper.
- Chemical resistant, self-cleaning, self-flushing dripper diaphragm removes debris throughout the irrigation cycle.

Line Diameter: 0.54", 0.57", 0.62", 0.69", 0.82"
Wall Thickness: 16, 17, 18, 20, 36 & 60 mil
GPH/Emitter Rates: 0.26, 0.42, 0.53, 0.61, 0.79, 1.0
Common Spacings: 18", 24", 30", 36", 42.25", 48"

**Netafim Aries™**

- Available with a wide choice of dripper spacings, flow rates and wall thickness to tailor-make a system for your varied applications, soils and crops.
- Large dripper filter flushes out large particles for long-term use and efficiency.
- Injection molded dripper construction provides uniform flow.

Line Diameter: 0.54", 0.62", 0.69", 0.82"
Wall Thickness: 45, 48, & 60 mil
GPH/Emitter Rates: 0.26, 0.40, 0.50, 0.79, 1.0
Common Spacings: 18", 24", 30", 36", 42", 48", 60" (Custom spacing available)

**Netafim UniRam (PC)**

**Features & Benefits**

- Heavywall solution for irrigating crops with long runs and steep topographies.
- Large filtration area prevents penetration of dirt particles into the dripper.
- Chemical resistant, self-cleaning, self-flushing dripper diaphragm removes debris throughout the irrigation cycle.

Line Diameter: 0.54", 0.57", 0.62", 0.69", 0.82"
Wall Thickness: 16, 17, 18, 20, & 820 mil
GPH/Emitter Rates: 0.26, 0.42, 0.53, 0.61, 0.92, 1.0
Common Spacings: 18", 24", 30", 36", 42", 48", 60"

**Rivulis Irrigation Hydrogol Drip Line**

Hydrogol Drip Line utilizes industry leading, cylindrical dripper that have turbulent flow path, dual inlets, and dual outlets to reduce the possibility of clogging. Hydrogol drip lines are offered in either black or white. The white hose has many benefits including the ability to maintain a lower water temperature, reflect light, and provide high visibility of the lines in a field or a greenhouse.

**Features & Benefits**

- Large surface inlet filter
- Outstanding clogging resistance for all flow rates
- Constant inside diameter regardless of drip line wall thickness

**Product Options**

Diameters: 16, 18, 20
Wall Thickness: 45 mil
Flow Rates (gph):
16 mil: 0.26, 0.53, 1.06, 2.11
18 mil: 0.44, 0.57, 1.08
20 mil: 0.32, 0.53, 1.06
Hose Color: Black or White
Standard operating pressure: 15 psi

**Jain Signature Aqualine™ Series**

**Features & Benefits**

- Cylindrical PC dripper, with unique regulating labyrinth with self-flushing operation at the beginning and end of each irrigation cycle.
- Silicone PC membrane with variable length flow path ensures performance consistency for life.
- Precision emitter manufacturing using medium to high density PE materials for long life and high chemical resistance.
- Dual opposed inlet filters offers filter area 10 times larger than competition of similar emitters.
- Self cleaning
- Large pressure compensation range offers uniform flow on large elevation changes and allows for longer length of run.
- Permanent bonded inline emitters during extrusion minimizes joints and offer low frictional losses.

**Signature Aqualine™ Series**

Wall Thickness: 16, 18, & 20
GPH/Emitter Rates: 0.23, 0.42, 0.53, 0.55, 1.0
Common Spacings: 12", 18", 24", 30", 36", 42", 48"
**Dripline**

**Toro BlueLine® PC Series**

**Features & Benefits**
- More resistant to plugging.
- Self flushing diaphragm - patented new design flushes during operation and shutdown, further resisting clogging and providing longer life for your system.
- Anti-siphon feature reduces susceptibility to back siphoning.
- Blue Stripe® of Quality allows for easy of identification of emitters during installation and/or operation.
- Fully pressure compensating from 10 to 60 psi.
- Available in standard and custom emitter spacings.
- Low profile emitter reduces friction loss.

**BlueLine® PC**
- Line Diameter: 0.55", 0.62", 0.71"
- Wall Thickness: 45 mil for 16mm and 18mm
  48 mil for 20mm
- GPH/Emitter Rates: 0.26, 0.40, 0.53 & 1.06

**Toro BlueLine® Classic Series**

**Features & Benefits**
- Efficient Emitter Design - The unique "shark tooth" emitter flow path design allows uniform application of water and nutrients in demanding field applications, including long lengths of run or undulating terrain.
- Accurate Flow Rate Between 5 and 60 psi - A wide operating window means less waste and uniform application of fluids to all plants, even at system start up and shutdown.
- Low Profile Emitter Design - Reduced friction loss saves energy and helps ensure uniform application of fluid to all plants.

**BlueLine® Classic**
- Line Diameter: 0.55", 0.62", 0.71"
- Wall Thickness: 45 mil for 16mm and 18mm
  48 mil for 20mm
- GPH/Emitter Rates: 0.53 & 1.06

**PE Tubing & Hose**

**Netafilm Polyethylene Tubing**

Netafilm Polyethylene Tubing is made from the highest quality low density polyethylene resin available.

**Features & Benefits**
- Available in black or white color, standard coil lengths or large diameter reels to meet your specific needs.
- White tubing is opaque to prevent algae growth, withstand heat and harsh chemicals while producing cooler water temperatures.
- UV and acid resistance.
- Available with pre-punched holes at various spacings.

**PE Tubing**
- Working Pressure (psi): 44-75

**Max-Flat Hose by Rivulis Irrigation**

Max-Flat Hose is the most versatile hose available for manifold, submain or water transfer applications. Max-Flat Hose is fabricated from premium polyethylene resin, specially formulated to resist stress cracking and kinking, and to ensure long-term reliability.

**Features & Benefits**
- Highly resistant to agricultural chemicals.
- Better connections with fittings that other types of manifolds.
- Hose rolls flat to easier shipping and handling.
- Green stripe

**Product Options**
- Diameters: 1.5" to 4"
- Max. Operating. Pressure: 21 psi
- Color: Black
Toro Ag Blue Stripe® Oval Hose is made from high quality polyethylene resins. Small diameter models of Oval Hose may be used as lateral lines in permanent crop applications, while large diameter models may be used as submains and mainlines in row crop applications.

**Features & Benefits**
- Available in a wide range of diameters, wall thicknesses and coil lengths to accommodate required lengths of run, working pressures and terrain. Polyethylene or flexible PE options available.
- Perfect for use across a number of applications as it allows growers flexibility in emitter placement and easily fits on emission devices or barbed fittings.
- Can be used for submain to dripline/tape connections, as well as micro sprinkler, sprayer and emitter connections.

**Toro Micro-Distribution Tubing**
- Tubing Diameter (Inches): 0.128, 0.176, 0.187, 0.188, 0.220, 0.225, 0.272, 0.275, 0.350, 0.375

**Toro Blue Stripe® Round Hose**
- Available in a wide range of diameters, wall thicknesses and coil lengths to accommodate required lengths of run, working pressures and terrain.
- Round hose available in blue, white or purple stripes for easy irrigation zone identification. Also available in white tubing for nursery and extreme climate applications to assist with water temperature control.
- A minimum of 2% carbon black is present to prevent ultraviolet degradation.

**BlueStripe® Round Hose**
- Hose Diameter (MM): 4, 10, 13, 14, 15, 16, 20, 26, & 35
- Working Pressure (psi): 46 - 80 psi, depending on wall thickness and diameter.

**Toro Blue Stripe® Oval Hose**
Toro Ag Blue Stripe® Oval Hose is made from high quality polyethylene resins. Small diameter models of Oval Hose may be used as lateral lines in permanent crop applications, while large diameter models may be used as submains and mainlines in row crop applications.

**Features & Benefits**
- Available in a wide range of diameters, wall thicknesses and coil lengths to accommodate required lengths of run, working pressures and terrain.
- Larger diameters available to provide a cost effective alternative to both rigid and flexible PVC pipelines.
- A minimum of 2% carbon black is present to prevent ultraviolet degradation.

**BlueStripe® Oval Hose**
- Working Pressure (psi): 21 or 42

**Bowsmith Premium Plus Tubing**
- Bowsmith Premium Plus+ tubing is manufactured from the highest grades of polyethylene resins.
- Contains a minimum of 2% carbon black.
- Every reel undergoes a series of tests to insure Bowsmith’s high quality manufacturing standards are met.
- Available in a wide range of diameters, wall thickness and coil lengths to accommodate required lengths of run, working pressures and terrain.
- Pre-punched and marked custom spacing are available for easy Fan-Jet® microsprinkler or NonStop® emitter installations.

**Tubing Diameter (Inches):** 0.128, 0.176, 0.187, 0.188, 0.220, 0.225, 0.272, 0.275, 0.350, 0.375
**Netafim FlexNet™ Flexible Tubing**

**Features & Benefits**
- FlexNet™ is made from durable, environmentally-friendly polypropylene material.
- It is easily laid out and can be recoiled multiple times each year.
- FlexNet™ can be used in surface or subsurface installation.
- FlexNet™ can be recycled at the end of its lifespan.
- Assembly is quick and easy with installed integral welded outlets (1/2” female threaded) which are located at predetermined spacings.
- Each welded outlet can accept a 1/2” male threaded tee or elbow start connector.

**Specifications**

<table>
<thead>
<tr>
<th>Size</th>
<th>Standard Outlet Spacing</th>
<th>Nominal Diameter Inside (inch)</th>
<th>Nominal Diameter Outside (inch)</th>
<th>Nominal Wall Thickness (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2”</td>
<td>30”</td>
<td>2.0”</td>
<td>2.09”</td>
<td>0.030”</td>
</tr>
<tr>
<td>3”</td>
<td>36”</td>
<td>3.1”</td>
<td>3.14”</td>
<td>0.030”</td>
</tr>
<tr>
<td>4”</td>
<td>40”</td>
<td>4.0”</td>
<td>4.10”</td>
<td>0.030”</td>
</tr>
<tr>
<td>6”</td>
<td>72”</td>
<td>6.4”</td>
<td>6.48”</td>
<td>0.030”</td>
</tr>
<tr>
<td>8”</td>
<td>80”</td>
<td>8.2”</td>
<td>8.29”</td>
<td>0.030”</td>
</tr>
</tbody>
</table>

**Pro-Flat Layflat by Rivulis Irrigation**

Pro-Flat Layflat is the only PVC Layflat that is designed specifically for drip irrigation systems. The thick walls and strong yarn structure help the product to hold connections and resist bursting. The tension in the yarn structure reduces the amount of rotation and elongation each time the system is pressurized.

**Features & Benefits**
- Premium resins for durability.
- Strong yarn structure - Minimizes rotation and expansion to keep the drip lines in place.
- Holds connections and resists bursting.

**Product Options**
- Diameters: 1.5” to 8”
- Color: Green

**VinylFlow® Layflat**

- Hose Diameter(inches): 1 1/2, 2, 3, 4, 6, 8 & 10
- Working Pressure (psi): 35 - 80

**VinylFlow® EZ-Lite™ Layflat**

- Hose Diameter(inches): 1 1/4, 1 1/2, 2, 3, 4, 6, & 8
- Working Pressure (psi): 40 - 85

**Toro Layflat**

Premium layflat discharge hose for drip irrigation applications is manufactured in the USA using high quality resins and stringent quality control standards. It is used worldwide as a flexible submain for irrigation lateral lines, and for general water transfer, and can be easily rolled up and used again for different applications or planting cycles. Due to its unique 3-ply polyester yarn construction and simultaneous tube and cover extrusion process, this layflat hose offers high working pressures with minimal elongation and snaking.

**Features & Benefits**
- Premium hose for discharge, transfer and sub-main lines
- Simultaneous tube and cover process minimizes the risk of separation.
- Unique construction minimizes elongation or distortion under pressure, ensuring security of fittings and placement.
- Ultraviolet inhibitors reduce aging and weather damage.
- Flexible construction allows easy coiling for reuse.
- Working temperature range from -5°F to 170°F

- Hose Diameter(inches): 1 1/2, 2, 3, 4, 6, & 8
- Working Pressure (psi): 40 - 80
# Tape Fittings

## Fittings

<table>
<thead>
<tr>
<th>TLOC-400B06LS-BV</th>
<th>RLOC-CPT06LS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drip Tape x Oval Hose Connector with Valve.</td>
<td>5/8 Typhoon - Drip Tape x Drip Tape Coupling</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TLOC-CPT06-LS</th>
<th>RLOC-CPT09LS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drip Tape x Drip Tape Couplings.</td>
<td>7/8 Typhoon - Drip Tape x Drip Tape Coupling</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TLOC-250B06LS</th>
<th>RLOC-400B06LS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drip Tape x Oval Hose Connector</td>
<td>5/8 Typhoon - Drip Tape x Oval Hose Connector</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TLOC-400B06LS</th>
<th>TLOC-TEE06LSB400</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8 Drip Tape x Oval Hose Connector.</td>
<td>Drip Tape X Drip Tape X Oval Hose Connector</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>TLOC-400B09LS</th>
<th>TLOC-TEE06LSB250</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/8 Drip Tape x Oval Hose Connector.</td>
<td>Drip Tape X Drip Tape X Oval Hose Connector</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TLOC-FHC06LS-19</th>
<th>PLUG-250 &amp; PLUG-400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drip Tape x Layflat Connector.</td>
<td>Goof Plugs</td>
</tr>
</tbody>
</table>

400B - 7/8
250B - 5/8

---

**Online Drappers**
Features & Benefits

• Patent protected pressure differential system maintains uniform flow rate at different inlet working pressures (within the recommended range) ensuring exact distribution of water and nutrients.
• Industry's widest flow path and wider dripper cross section allow large particles through the dripper’s short flow path.
• Continuous self-flushing system, even while irrigating, provides improved resistance to clogging.
• The Woodpecker Jr. PC has a CNL feature that is an internal check valve or non-draining mechanism that eliminates refill and drainage effects.

### Specifications

<table>
<thead>
<tr>
<th>GPH/Emitter</th>
<th>Operating Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC</td>
<td>7 - 45 psi</td>
</tr>
<tr>
<td>Woodpecker PC</td>
<td>7 - 45 psi</td>
</tr>
<tr>
<td>Woodpecker Jr PC</td>
<td>7 - 45 psi</td>
</tr>
</tbody>
</table>

### Bowsmith - NonStop Drip Emitters

Features & Benefits

Bowsmith NonStop emitters have demonstrated that the unique NonStop Continuous Self-Cleaning Action (Pressure Cascade Principle) really works, even under conditions that typically clog other emitters. With only 30-mesh filtration (recommended minimum), Bowsmith NonStop emitters have operated successfully with water containing heavy concentrations of sand, silt, iron bacteria, calcium carbonates, even algae and moss.

- Single barb outlet, 0.250” and 0.175” barbs on opposite ends; either can be used as an inlet.
- 30-Mesh Filtration (recommended minimum)

### Toro - Drip Emitters

#### Specifications

<table>
<thead>
<tr>
<th>&quot;SB Series&quot; Model No.</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB-06</td>
<td>0.6 GPH</td>
</tr>
<tr>
<td>SB-10</td>
<td>1.0 GPH</td>
</tr>
<tr>
<td>SB-20</td>
<td>2.0 GPH</td>
</tr>
</tbody>
</table>

### Netafim Non-Pressure Compensating Drippers

Features & Benefits

- Wide flow path and wider dripper cross section allow large particles through the dripper’s short flow path.
- Designed with a barbed base for easy installation into blank polyethylene tubing.
- Several flow rates provide adaptability to many applications.

<table>
<thead>
<tr>
<th>GPH/Emitter</th>
<th>Max Operating Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Button Dripper</td>
<td>0.5, 1.0, 2.0 40 psi</td>
</tr>
<tr>
<td>Woodpecker Dripper</td>
<td>0.5, 1.0, 2.0 40 psi</td>
</tr>
</tbody>
</table>
Nursery & Greenhouse Spray Stakes

Netafim PC, Non PC, Dripper & MOD Assembly

Features & Benefits

• Nursery Pot Stakes have a 160° low angle spray pattern designed for round pots to reduce over-spray. Spray pattern works well from low to high water pressures and are available in various gallon sizes. There is a side arm shut-off ring to give a watertight seal and keep dirt out of tubing.
• Agriculture Groove Stakes are ideal for long runs or elevation.
• Elbow Stakes are 7” in height in orange or black colors. The flexible vinyl is available in black and blue colors. Elbow Stakes spray jet sprays a 45° downward circle pattern.

MaxiJet Nursery Pot, Groove, & Elbow Stakes

Features & Benefits

• Nursery Pot Stakes have a 160° low angle spray pattern designed for round pots to reduce over-spray. Spray pattern works well from low to high water pressures and are available in various gallon sizes. There is a side arm shut-off ring to give a watertight seal and keep dirt out of tubing.
• Agriculture Groove Stakes are ideal for long runs or elevation.
• Elbow Stakes are 7” in height in orange or black colors. The flexible vinyl is available in black and blue colors. Elbow Stakes spray jet sprays a 45° downward circle pattern.

<table>
<thead>
<tr>
<th>Model</th>
<th>GPH</th>
<th>Pattern</th>
<th>Operating Pressure Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC Spray Stakes</td>
<td>3.2 - 10.6</td>
<td>Single or Double</td>
<td>22 - 55</td>
</tr>
<tr>
<td>Non PC Spray Stake</td>
<td>3, 5, or 7</td>
<td>Single</td>
<td>15 - 25</td>
</tr>
<tr>
<td>Dripper Stake Assembly</td>
<td>1 or 2</td>
<td>Single Stake</td>
<td>10 - 45</td>
</tr>
<tr>
<td>MOD Assembly</td>
<td>1 or 2</td>
<td>2 Way, 4 Way, or Stackable</td>
<td>10 - 45</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>GPH</th>
<th>Pattern</th>
<th>Operating Pressure Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursery Pot Stake</td>
<td>3.2 - 10.6</td>
<td>Single or Double</td>
<td>22 - 55</td>
</tr>
<tr>
<td>Groove Stake</td>
<td>4.2 - 15</td>
<td>Single</td>
<td>15 - 25</td>
</tr>
<tr>
<td>Elbow Stake</td>
<td>1 or 2</td>
<td>Single Stake</td>
<td>10 - 45</td>
</tr>
</tbody>
</table>
Nursery/Greenhouse Spray Stakes

Netafim SpinNet, VibroNet, & CoolNet Pro

Features & Benefits
- Netafim SpinNet and VibroNet Sprinklers produce high levels of watering uniformity. They are constructed without a "bridge" to retain the spinner, producing drip-less operation. These sprinklers have wide patterns up to 24’. Both types have a check valve above the sprinkler head to ensure that each sprinkler turns on/off at the same time.

- Netafim CoolNet Pro Foggers produce finer droplets allowing quicker evaporation resulting in higher humidity for propagation applications. Each nozzle of the 4-Way Fogger has a flow rate of 2.0 GPH. CoolNet Pro Foggers also have a reliable check valve above each head ensuring all foggers turn on/off at the same time.

<table>
<thead>
<tr>
<th>Model</th>
<th>GPH</th>
<th>Pattern</th>
<th>Operating Pressure Range</th>
<th>Wetted Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>SpinNet</td>
<td>18.4 - 23.4</td>
<td>6 Different</td>
<td>10 - 35 psi</td>
<td>10 - 38 ft</td>
</tr>
<tr>
<td>VibroNet</td>
<td>9.2 - 11.7</td>
<td>Vibrating</td>
<td>10 - 35 psi</td>
<td>10 - 38 ft</td>
</tr>
<tr>
<td>CoolNet Pro</td>
<td>8.1</td>
<td>Fogging</td>
<td>45 - 60 psi</td>
<td>6 - 10 ft</td>
</tr>
</tbody>
</table>

Primerus Spot Spitters

Features & Benefits
- Primerus Spot Spitters deliver a variety of flow rates and patterns. Exclusive directional indicator allows quick placement. Available options: Standard (4.75"), short (2.75"), Tall (11") and Down-spray.

<table>
<thead>
<tr>
<th>Color</th>
<th>GPH</th>
<th>Pattern</th>
<th>Pressure Range</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black High Flow</td>
<td>12.6 - 17.4</td>
<td>160° Spray</td>
<td>15 - 25 psi</td>
<td>15 - 20 Gallon Pot</td>
</tr>
<tr>
<td>Green Medium Flow</td>
<td>9.6 - 13.2</td>
<td>160° Spray</td>
<td>15 - 25 psi</td>
<td>5 - 15 Gallon Pot</td>
</tr>
<tr>
<td>Lt. Green Flow</td>
<td>5.4 - 6.6</td>
<td>160° Spray</td>
<td>15 - 25 psi</td>
<td>2 - 7 Gallon Pot</td>
</tr>
<tr>
<td>Orange Mini Flow</td>
<td>3.6 - 4.8</td>
<td>160° Spray</td>
<td>15 - 25 psi</td>
<td>1 - 3 Gallon Pot</td>
</tr>
<tr>
<td>Brown Mini Flow</td>
<td>5.4 - 7.8</td>
<td>90° Spray</td>
<td>15 - 25 psi</td>
<td>2 - 7 Gallon Pot</td>
</tr>
<tr>
<td>Grey Mini Flow</td>
<td>2.4 - 3.6</td>
<td>90° Spray</td>
<td>15 - 25 psi</td>
<td>1 - 3 Gallon Pot</td>
</tr>
<tr>
<td>Blue Medium Flow</td>
<td>9.0 - 12.6</td>
<td>360° Spray</td>
<td>15 - 25 psi</td>
<td>36” - 48” Box</td>
</tr>
</tbody>
</table>
**Features & Benefits**

- The SuperNet Pressure Regulated Micro Sprinkler has a wide regulating range and floating, self-flushing diaphragm maintains uniform flow across broad pressure range.
- High distribution uniformity - unique nozzle tube prevents negative effects of varying inlet pressure on the wetted diameter.
- Large water passages - resists clogging.
- Drop down “bug-proof” swivel/jet plate prevents entry of insects.
- Everspin bearing has a layer of sapphire material to reduce friction and wear, promoting long-lasting sprinkler performance.
- Bearing keeps the swivel centered during operation and improves start-up.
- SuperNet Jr. Non-Pressure Regulated is recommended for applications where flow regulation is not required.

### Specifications

<table>
<thead>
<tr>
<th>Style</th>
<th>GPM</th>
<th>Pattern</th>
<th>Operating Pressure</th>
<th>Wetted Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>SuperNet (SW)</td>
<td>5.3-23.8</td>
<td>Short or Long</td>
<td>25-50 psi</td>
<td>5-23 ft.</td>
</tr>
<tr>
<td>SuperNet (j.Plate)</td>
<td>8.2-23.8</td>
<td>6-12ft Stream</td>
<td>25-50 psi</td>
<td>16-18ft.</td>
</tr>
<tr>
<td>SuperNet Jr. (SW)</td>
<td>6-50</td>
<td>Short or Long</td>
<td>15-35 psi</td>
<td>4.3-29.5 ft.</td>
</tr>
</tbody>
</table>

**Jets & Micro Sprinklers**

Netafim SuperNet & SuperNet Jr.

**Netafim SuperNet & SuperNet Jr.**

- **Features & Benefits**
  - The SuperNet Pressure Regulated Micro Sprinkler has a wide regulating range and floating, self-flushing diaphragm maintains uniform flow across broad pressure range.
  - High distribution uniformity - unique nozzle tube prevents negative effects of varying inlet pressure on the wetted diameter.
  - Large water passages - resists clogging.
  - Drop down “bug-proof” swivel/jet plate prevents entry of insects.
  - Everspin bearing has a layer of sapphire material to reduce friction and wear, promoting long-lasting sprinkler performance.
  - Bearing keeps the swivel centered during operation and improves start-up.
  - SuperNet Jr. Non-Pressure Regulated is recommended for applications where flow regulation is not required.

<table>
<thead>
<tr>
<th>Netafim NetJet Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Style</strong></td>
</tr>
<tr>
<td>NetJet</td>
</tr>
</tbody>
</table>

**Netafim NetJet**

- **Features & Benefits**
  - Netafim NetJet High Performance Spray Jet operates at low pressures. It has wide range of spray patterns and trajectories that help save on energy costs. The NetJet minimizes “misting” reducing water lost to evaporation. The lower operating pressure also reduces wear associated with hard or soluble gypsum.

**NetJet Specifications**

<table>
<thead>
<tr>
<th>Netafim NetJet Model #</th>
<th>Nozzle Color</th>
<th>Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>037121080000</td>
<td>Black</td>
<td>6.8 GPH</td>
</tr>
<tr>
<td>037121780000</td>
<td>Orange</td>
<td>7.6 GPH</td>
</tr>
<tr>
<td>037121280000</td>
<td>Brown</td>
<td>8.7 GPH</td>
</tr>
<tr>
<td>037121180000</td>
<td>Blue</td>
<td>11.1 GPH</td>
</tr>
<tr>
<td>037121680000</td>
<td>Purple</td>
<td>13.1 GPH</td>
</tr>
<tr>
<td>03712998</td>
<td>Stream Deflector</td>
<td>-</td>
</tr>
</tbody>
</table>

**Spray Patterns**

- **A**: 12 STREAM 360°
- **B**: BUTTERFLY STREAM
- **C**: 8 STREAM 210°
- **D**: 22 STREAM 360°
- **E**: 12 STREAM 360°
- **F**: RECTANGULAR STREAM
- **G**: 10 STREAM 300°
Features & Benefits

• The Max-14 Fill-In Jet was designed for high density plantings and the Max-14 Stream Jet is suited for mature trees with wider spacings. Both the Max-14 Fill-In and Stream are durable one-piece jets with a winged one-arm design, available in 8 different gallon sizes, and have quick locking threads to get the jet in and out of the stake in only 1 to 2 quick turns.

• The Max-360 and Max-180 jets are equipped with a down spray stream pattern to keep water off leaves and berries and allow little to no wind deflection. Spray jets will irrigate 90% to 100% of the root zone.

• The Max-240 sprays a 10-stream 240° pattern and is designed to be installed near the base of trees spraying out to keep water off of the trunks.

MaxiJet MAX-FLO™ Flow-Controlled Adapters

Features & Benefits

• Maxi Jet MAX-FLO™ adapters connect the poly hose to the jet assembly and allows for a consistent spray pattern on undulating terrain.
**Jets & Micro Sprinklers**

**Rivulis Irrigation Tornado Ray Jet Stream Spray**

**Features & Benefits**
- No moving parts to break, jam, or wear out.
- Vortex nozzle which creates a turbulent water flow throughout the large water passage way.
- Wetting pattern options
  - 180˚ (8 jet streams)
  - 300˚ (10 jets)
  - 360˚ (8 or 12 jets)

**Operating Guidelines**
- Operating pressure range: 22-42 psi

<table>
<thead>
<tr>
<th>Nozzle Size (inch)</th>
<th>Flow Rate (gph)**</th>
<th>Wetting Diameter (ft)***</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black (0.035)</td>
<td>6.6****</td>
<td>7.9</td>
</tr>
<tr>
<td>Blue (0.051)</td>
<td>9</td>
<td>10.5</td>
</tr>
<tr>
<td>Green (0.067)</td>
<td>14.5</td>
<td>11.8</td>
</tr>
<tr>
<td>Red (0.079)</td>
<td>18.5</td>
<td>13.8</td>
</tr>
</tbody>
</table>

**S2000 Micro Sprinkler**

S2000 Micro Sprinklers can be used in a wide range of applications including irrigation, cooling, and frost protection for orchards and groves. The S2000 Micro Sprinkler delivers a consistent spray pattern at a low angle, avoiding low hanging branches.

**Features & Benefits**
- Anti-insect device
- Standard or flow regulated models
- Wear resistant design

**Product Options**
- Flow regulated
- Trunk protector(s)
- Detachable range limiter spinner
- Operating pressure range: 22-50 psi
- Effective wetting area: 3 to 33 feet

---

**Bowsmith Fan-Jet**

**Features & Benefits**
- The Fan-Jet has a twin-wedge post construction, which is durable, low profile, and impact resistant.
- Open design that has no pockets to collect debris or harbor insects.
- The Fan-Jet is made of high grade co-polymer material for limited creep and shrinkage.
- The splash plate, with no moving parts, maintains precise alignment over time.
- 18 Different spraying patterns available.

<table>
<thead>
<tr>
<th>Bowsmith Fan-Jet</th>
<th>Flow Rate (gph)</th>
<th>Wetting Diameter (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nozzle Size</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>55</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Violet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Green</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yellow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Red</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Spray Patterns**

**Nozzle sizes (color coded)**

<table>
<thead>
<tr>
<th>Nozzle Size</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>Black</td>
</tr>
<tr>
<td>35</td>
<td>Orange</td>
</tr>
<tr>
<td>40</td>
<td>Blue</td>
</tr>
<tr>
<td>45</td>
<td>Violet</td>
</tr>
<tr>
<td>50</td>
<td>Green</td>
</tr>
<tr>
<td>55</td>
<td>Yellow</td>
</tr>
<tr>
<td>60</td>
<td>Red</td>
</tr>
</tbody>
</table>

---

**Spinners & Colors**

<table>
<thead>
<tr>
<th>Spinner Color</th>
<th>Nozzle Color</th>
<th>Flow Rate (gph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLK</td>
<td>Light Blue</td>
<td>8</td>
</tr>
<tr>
<td>BLK</td>
<td>Black</td>
<td>10</td>
</tr>
<tr>
<td>BLK</td>
<td>Blue</td>
<td>14</td>
</tr>
<tr>
<td>BLK</td>
<td>Dark Blue</td>
<td>16</td>
</tr>
<tr>
<td>BLK</td>
<td>Green</td>
<td>20</td>
</tr>
<tr>
<td>BLK</td>
<td>Red</td>
<td>26</td>
</tr>
<tr>
<td>BLK</td>
<td>White</td>
<td>33</td>
</tr>
</tbody>
</table>
Jets & Micro Sprinklers

Features & Benefits
- No tools are required to remove and re-install nozzle/deflector on the bayonet mount.
- Nozzle/deflector assembly is easily removed for cleaning.
- The taper bore nozzle design prevents debris from clogging the orifice.
- Upright (upward spraying) or inverted (downward spraying) nozzle/deflector position available.
- The transfer tubing offers maximum flexibility, durability and kink-resistance.
- 7 Different spray patterns available.

---

Rain Bird Micro-Quick Sprays

Features & Benefits
- No tools are required to remove and re-install nozzle/deflector on the bayonet mount.
- Nozzle/deflector assembly is easily removed for cleaning.
- The taper bore nozzle design prevents debris from clogging the orifice.
- Upright (upward spraying) or inverted (downward spraying) nozzle/deflector position available.
- The transfer tubing offers maximum flexibility, durability and kink-resistance.
- 7 Different spray patterns available.

<table>
<thead>
<tr>
<th>Nozzle Size</th>
<th>QN-05 (0.026&quot;)</th>
<th>QN-08 (0.033&quot;)</th>
<th>QN-12 (0.038&quot;)</th>
<th>QN-14 (0.044&quot;)</th>
<th>QN-17 (0.048&quot;)</th>
<th>QN-24 (0.057&quot;)</th>
<th>QN-33 (0.068&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
<td>Orange</td>
<td>Blue</td>
<td>Lavender</td>
<td>Green</td>
<td>Red</td>
<td>White</td>
</tr>
<tr>
<td>Model #</td>
<td>Q1080005</td>
<td>Q1080008</td>
<td>Q1080018</td>
<td>Q1080014</td>
<td>Q1080017</td>
<td>Q1080024</td>
<td>Q1080033</td>
</tr>
<tr>
<td>Pressure</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow (GPH)</td>
<td>3.7</td>
<td>4.5</td>
<td>5.2</td>
<td>5.9</td>
<td>6.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5.6</td>
<td>6.9</td>
<td>8.0</td>
<td>9.2</td>
<td>10.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7.3</td>
<td>9.1</td>
<td>10.6</td>
<td>11.8</td>
<td>13.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9.7</td>
<td>11.8</td>
<td>13.7</td>
<td>15.5</td>
<td>17.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10.7</td>
<td>13.3</td>
<td>15.5</td>
<td>17.4</td>
<td>19.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>14.2</td>
<td>17.3</td>
<td>20.1</td>
<td>22.4</td>
<td>26.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>17.2</td>
<td>21.0</td>
<td>25.2</td>
<td>27.9</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

Rain Bird Micro-Quick Spray

<table>
<thead>
<tr>
<th>Nozzle Size</th>
<th>QN-05 (0.026&quot;)</th>
<th>QN-08 (0.033&quot;)</th>
<th>QN-12 (0.038&quot;)</th>
<th>QN-14 (0.044&quot;)</th>
<th>QN-17 (0.048&quot;)</th>
<th>QN-24 (0.057&quot;)</th>
<th>QN-33 (0.068&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
<td>Orange</td>
<td>Blue</td>
<td>Lavender</td>
<td>Green</td>
<td>Red</td>
<td>White</td>
</tr>
<tr>
<td>Model #</td>
<td>Q1080005</td>
<td>Q1080008</td>
<td>Q1080018</td>
<td>Q1080014</td>
<td>Q1080017</td>
<td>Q1080024</td>
<td>Q1080033</td>
</tr>
</tbody>
</table>

---

Jain Mini Revolver 16

Features & Benefits
- The Mini Revolver 16 is a low-volume plastic ball-driven sprinkler.
- It has a compact, sturdy, closed and protected ball engine.
- The Mini Revolver offers uniform water distribution at low pressure and precipitation rate.
- It has a wetted diameter ranger of 8-31 ft.
- Different color-coded plastic low-trajectory nozzles make for easy operation and service.
- The Mini Revolver has an insect-resistant, pop-up/down nozzle.

<table>
<thead>
<tr>
<th>Jain Mini Revolver</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unregulated Description</td>
</tr>
<tr>
<td>Blue, 35 GPH @ 35 psi, 46 ft Diameter</td>
</tr>
<tr>
<td>Yellow, 47 GPH @ 35 psi, 48 ft Diameter</td>
</tr>
<tr>
<td>Violet, 59 GPH @ 35 psi, 51 ft Diameter</td>
</tr>
<tr>
<td>Black, 71 GPH @ 35 psi, 52 ft Diameter</td>
</tr>
<tr>
<td>Orange, 47 GPH @ 39 ft Diameter (low angle)</td>
</tr>
<tr>
<td>Red, 59 GPH @ 42 ft Diameter (low angle)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Regulated Description</th>
<th>Model #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue, 35 GPH @ 35 psi, 46 ft Diameter</td>
<td>11347443</td>
</tr>
<tr>
<td>Yellow, 47 GPH @ 35 psi, 48 ft Diameter</td>
<td>11347446</td>
</tr>
<tr>
<td>Violet, 59 GPH @ 35 psi, 51 ft Diameter</td>
<td>11347444</td>
</tr>
<tr>
<td>Black, 71 GPH @ 35 psi, 52 ft Diameter</td>
<td>11347448</td>
</tr>
<tr>
<td>Orange, 47 GPH @ 39 ft Diameter (low angle)</td>
<td>11347445</td>
</tr>
<tr>
<td>Red, 59 GPH @ 42 ft Diameter (low angle)</td>
<td>11347447</td>
</tr>
</tbody>
</table>
Sprinklers

Netafim MegaNet™

Features & Benefits
- The MegaNet™ is a balanced sprinkler with two equal water jets - no wobble.
- It has a closed and compact design preventing insect penetration and protecting internal parts.
- The MegaNet has distribution uniformity and can be installed on solid sets or in removable field stands.
- Each unit has an individual filter for nozzle cleanliness and to simplify cleaning.
- It is UV protected materials are durable in all climates and resistant to fertilizers and chemicals.
- The operating psi ranges from 29-45 and the wetted diameter ranges from 42.8 - 52.4 ft.

Jain 233B

Features & Benefits
- The Jain 233 Series sprinkler has high water distribution with spacing up to 59 feet.
- It has an integrated stream-straightening vane for maximum ranges.
- The sand and protection sleeve ensures reliable operation and durability.

Senninger Mini-Wobbler & Wobbler

Features & Benefits
- Senninger Mini-Wobblers employ a unique off-center rotary action that provides an extremely uniform distribution pattern over a large area. Their gentle rain-like pattern has very low evaporative loss and is effective for frost protection and salt leaching. Mini-wobblers are extremely durable with only one moving part. They are constructed entirely of engineering grade thermoplastics for excellent corrosion resistance.
- The Wobbler provides extremely uniform coverage over a large diameter at low-pressures. It produces droplets that resist wind-drift and are applied in a gentle rain-like pattern. The Wobbler is constructed entirely of engineering grade thermoplastics for corrosion resistance and is extremely durable due to having only one moving part.

Specifications

<table>
<thead>
<tr>
<th>Style</th>
<th>GPM</th>
<th>Trajectory</th>
<th>Operating Pressure</th>
<th>Wetted Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mini-Wobbler</td>
<td>0.42</td>
<td>0 or 10</td>
<td>15-25 psi</td>
<td>26 - 43.5 ft.</td>
</tr>
<tr>
<td>Wobbler</td>
<td>0.78 - 7.64</td>
<td>12 or 24</td>
<td>15-30 psi</td>
<td>29 - 52 ft.</td>
</tr>
</tbody>
</table>

Mini-Wobbler Flow GPM @ psi

<table>
<thead>
<tr>
<th>Nozzle</th>
<th>15</th>
<th>20</th>
<th>25</th>
</tr>
</thead>
<tbody>
<tr>
<td>#4 Nozzle</td>
<td>0.42</td>
<td>0.50</td>
<td>0.56</td>
</tr>
<tr>
<td>#5 Nozzle-Beige</td>
<td>0.64</td>
<td>0.75</td>
<td>0.84</td>
</tr>
<tr>
<td>#6 Nozzle- Gold</td>
<td>0.95</td>
<td>1.10</td>
<td>1.25</td>
</tr>
<tr>
<td>#7 Nozzle- Lime</td>
<td>1.30</td>
<td>1.51</td>
<td>1.69</td>
</tr>
<tr>
<td>#8 Nozzle- Lavender</td>
<td>1.67</td>
<td>1.95</td>
<td>2.18</td>
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</tbody>
</table>

Wobbler Flow GPM @ psi

<table>
<thead>
<tr>
<th>Nozzle</th>
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<th>15</th>
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<tr>
<td>#7 Nozzle- Lime</td>
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<td>1.50</td>
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<tr>
<td>#8 Nozzle- Lavender</td>
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<td>1.78</td>
<td>2.19</td>
<td>2.54</td>
<td>2.84</td>
</tr>
<tr>
<td>#9 Nozzle- Grey</td>
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<td>2.20</td>
<td>2.54</td>
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<td>2.72</td>
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<td>#11 Nozzle- Yellow</td>
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<td>#12 Nozzle- Red</td>
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<td>#13 Nozzle- White</td>
<td>3.80</td>
<td>4.65</td>
<td>5.38</td>
<td>6.01</td>
<td>6.59</td>
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<td>#14 Nozzle- Blue</td>
<td>4.40</td>
<td>5.39</td>
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Netafim MegaNet™ Specifications

<table>
<thead>
<tr>
<th>Nozzle Size</th>
<th>Nominal Flow (GPM)</th>
<th>Trajectory</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.070&quot;</td>
<td>0.88</td>
<td>High - 24°</td>
</tr>
<tr>
<td>0.084&quot;</td>
<td>1.10</td>
<td>High - 24°</td>
</tr>
<tr>
<td>0.096&quot;</td>
<td>1.54</td>
<td>High - 24°</td>
</tr>
<tr>
<td>0.109&quot;</td>
<td>1.98</td>
<td>High - 24°</td>
</tr>
<tr>
<td>0.121&quot;</td>
<td>2.42</td>
<td>High - 24°</td>
</tr>
<tr>
<td>0.132&quot;</td>
<td>2.86</td>
<td>High - 24°</td>
</tr>
<tr>
<td>0.144&quot;</td>
<td>3.30</td>
<td>Low - 15°</td>
</tr>
<tr>
<td>0.070&quot;</td>
<td>0.88</td>
<td>Low - 15°</td>
</tr>
<tr>
<td>0.084&quot;</td>
<td>1.10</td>
<td>Low - 15°</td>
</tr>
<tr>
<td>0.096&quot;</td>
<td>1.54</td>
<td>Low - 15°</td>
</tr>
<tr>
<td>0.109&quot;</td>
<td>1.98</td>
<td>Low - 15°</td>
</tr>
<tr>
<td>0.121&quot;</td>
<td>2.42</td>
<td>Low - 15°</td>
</tr>
<tr>
<td>0.132&quot;</td>
<td>2.86</td>
<td>Low - 15°</td>
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Senninger Mini-Wobbler & Wobbler Specifications

<table>
<thead>
<tr>
<th>Style</th>
<th>GPM</th>
<th>Trajectory</th>
<th>Operating Pressure</th>
<th>Wetted Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mini-Wobbler</td>
<td>0.42</td>
<td>0 or 10</td>
<td>15-25 psi</td>
<td>26 - 43.5 ft.</td>
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<tr>
<td>Wobbler</td>
<td>0.78 - 7.64</td>
<td>12 or 24</td>
<td>15-30 psi</td>
<td>29 - 52 ft.</td>
</tr>
</tbody>
</table>
# Sprinklers

## Senninger Xcel Wobbler & Impacts

### Features & Benefits
- **Xcel-Wobblers** produce droplets resistant to wind-drift and evaporation, and distribute them in a gentle, rain-like pattern. Provides extremely uniform coverage over large diameters. Only one moving part, which translates to longer product life. Available in high and low angle models.
- The 20 series full-circle impacts are Senninger’s most economical sprinklers. These sprinklers work best with low flows between 1.34 to 3.98 gpm. Three models with different trajectories available:
  - **2009** – 9° fights wind drift and evaporation
  - **2014** – 14° ideal for under-tree irrigation
  - **2023** – 23° maximum throw on overhead systems

### Specifications

<table>
<thead>
<tr>
<th>Xcel - Wobbler</th>
<th>Flow GPM @ psi</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10</td>
</tr>
<tr>
<td>#6 Nozzle - Gold (3/32&quot;)</td>
<td>0.78</td>
</tr>
<tr>
<td>#7 Nozzle - Lime (7/64&quot;)</td>
<td>1.06</td>
</tr>
<tr>
<td>#8 Nozzle - Lavender (1/8&quot;)</td>
<td>1.40</td>
</tr>
<tr>
<td>#9 Nozzle - Grey (9/64&quot;)</td>
<td>1.80</td>
</tr>
<tr>
<td>#10 Nozzle - Turquoise (5/32&quot;)</td>
<td>2.22</td>
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<tr>
<td>#11 Nozzle - Yellow (11/64&quot;)</td>
<td>2.69</td>
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<tr>
<td>#12 Nozzle - Red (3/16&quot;)</td>
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<tr>
<td>#13 Nozzle - White (13/64&quot;)</td>
<td>3.80</td>
</tr>
<tr>
<td>#14 Nozzle - Blue (7/32&quot;)</td>
<td>4.40</td>
</tr>
</tbody>
</table>

## Nelson R2000 Rotator, R2000WF, R33 Rotator

### Features & Benefits
- **The R2000 Rotator** uses proven Rotator Technology to provide high uniformity without the riser vibration or splash down associated with impact sprinklers. The simple, snap-apart design is durable, reliable, and easy to repair and clean. Choose from 15 different plate options to achieve optimal trajectory and throw characteristics.
- **The R2000WF Rotator** - the “Windfighter” - consistently delivers higher uniformity than impact sprinklers. The R2000WF forms a tight wind-penetrating stream that is systematically broken up by a diffuser, filling in the water pattern. Its sweeping action gently distributes water droplets to the ground preventing soil compaction. The R2000LP is a low-pressure version of the R2000WF.
- **The R33 Rotator** is an innovation that saves money, saves time, and performs better than the 3/4” brass impact sprinklers it’s designed to replace. The R33 uses Nelson’s proven Rotator® technology to provide longer throw distance, fight the wind and deliver uniform coverage. While brass sprinklers are prone to damage, clogging, and theft, the R33 is easy to clean, easy to repair, and costs less. The R33LP is a low-pressure version of the R33.

### Specifications

<table>
<thead>
<tr>
<th>Style</th>
<th>GPM</th>
<th>Trajectory</th>
<th>Operating Pressure</th>
<th>Wetted Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>R2000 Rotator</td>
<td>0.67 - 3.54</td>
<td>6, 9, 12, 15, or 24</td>
<td>30 - 60 psi</td>
<td>23 - 37 ft.</td>
</tr>
<tr>
<td>R2000WF Rotator</td>
<td>1.10 - 5.70</td>
<td>25</td>
<td>40 - 65 psi</td>
<td>44 - 50 ft</td>
</tr>
<tr>
<td>R2000LP Rotator</td>
<td>0.88 - 5.00</td>
<td>25</td>
<td>25 - 50 psi</td>
<td>30 - 41 ft</td>
</tr>
<tr>
<td>R33 Rotator</td>
<td>1.22 - 91.8</td>
<td>25</td>
<td>40 - 65 psi</td>
<td>35 - 45 ft</td>
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## 20 Series Impacts

### Flow GPM @ psi

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<th>2009HD Impact</th>
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<td>1.55</td>
<td>1.64</td>
<td>-</td>
<td>-</td>
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<tr>
<td>#7 Nozzle - Lime (7/64&quot;)</td>
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<td>1.99</td>
<td>2.12</td>
<td>2.25</td>
<td>2.37</td>
<td>-</td>
</tr>
<tr>
<td>#8 Nozzle - Lavender (1/8&quot;)</td>
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<td>2.62</td>
<td>2.79</td>
<td>2.97</td>
<td>3.12</td>
<td>-</td>
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<tr>
<td>#9 Nozzle - Grey (9/64&quot;)</td>
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<td>3.33</td>
<td>3.56</td>
<td>3.78</td>
<td>3.98</td>
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### 2014HS

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<tr>
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<td>1.45</td>
<td>1.55</td>
<td>1.64</td>
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<td>1.99</td>
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<td>2.25</td>
<td>2.37</td>
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<tr>
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<td>2.62</td>
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<tr>
<td>#9 Nozzle - Grey (9/64&quot;)</td>
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<td>3.33</td>
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### 2023HS

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<th>45</th>
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<tbody>
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<tr>
<td>#7 Nozzle - Lime (7/64&quot;)</td>
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<tr>
<td>#9 Nozzle - Grey (9/64&quot;)</td>
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<td>3.33</td>
<td>3.56</td>
<td>3.78</td>
<td>3.98</td>
<td>-</td>
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</tbody>
</table>
Sprinklers

Wade Rain WR-32

Features & Benefits
• Wade Rain WR-32 Brass Impact Sprinkler is a single nozzle sprinkler with an aluminum arm for low gallonage applications. It also comes in an aluminum arm version with a straightening vane for larger wetted diameters.

Specifications

<table>
<thead>
<tr>
<th>Style</th>
<th>GPM</th>
<th>Operating Pressure</th>
<th>Wetted Diameter</th>
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</thead>
<tbody>
<tr>
<td>WR-32</td>
<td>1.73 - 5.17</td>
<td>25 - 80 psi</td>
<td>77 - 91 ft</td>
</tr>
<tr>
<td>WR-32 W/Vane</td>
<td>1.10 - 5.70</td>
<td>25 - 80 psi</td>
<td>78 - 100 ft</td>
</tr>
</tbody>
</table>

Rain Bird LF Series & 2045PJ

Features & Benefits
• The Rain Bird® LF Series Sprinkler is built rugged to withstand the harsh conditions in agricultural applications. It has been designed to combine the advantages of an impact sprinkler with stream height flexibility that delivers precise, uniform water distribution, making it a good choice for frost protection.
• The 2045PJ is an impact drive sprinkler. It has a double-weighted arm for slower rotation and increased distance throw. An adjustable spring arm makes for low-pressure and low-gallonage operation. The 2045PJ has a precision jet tube to minimize side splash. It also has a powerful reverse action.

Specifications

<table>
<thead>
<tr>
<th>Style</th>
<th>GPM</th>
<th>Trajectory</th>
<th>Operating Pressure</th>
<th>Wetted Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF Series</td>
<td>0.77 - 1.67</td>
<td>6 - 22</td>
<td>25 - 60 psi</td>
<td>23 - 33 ft</td>
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<tr>
<td>2045PJ</td>
<td>1.50 - 8.40</td>
<td>6 - 12</td>
<td>25 - 60 psi</td>
<td>22 - 45 ft</td>
</tr>
</tbody>
</table>

Features & Benefits
• The 30H impact sprinkler has a heavy duty brass construction with stainless steel springs and fulcrum pin. The 30H has dual nozzle ports, brass bearing sleeve, and chemically resistant washers. Built to last the 30H is corrosion and grit resistant.
• The L36H is a low angle sprinkler to fight strong wind conditions. It is made with chemically resistant washers, has a durable Delrin plastic body and arm, and is chemical and grit resistant. The L36H has a slotted spoon for larger nozzles and an exceptionally wide range of quick-fit nozzles.

Specifications

<table>
<thead>
<tr>
<th>Style</th>
<th>GPM</th>
<th>Trajectory</th>
<th>Operating Pressure</th>
<th>Wetted Diameter</th>
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<tr>
<td>30H</td>
<td>2.90 - 13.10</td>
<td>27</td>
<td>25 - 80 psi</td>
<td>40 - 56 ft</td>
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<tr>
<td>L36H</td>
<td>1.60 - 17.80</td>
<td>10</td>
<td>20 - 60 psi</td>
<td>40 - 61 ft</td>
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LF Series 2045-PJ

<table>
<thead>
<tr>
<th>LF Series</th>
<th>Nozzle types</th>
<th>2045-PJ</th>
<th>Nozzle types</th>
</tr>
</thead>
<tbody>
<tr>
<td>6° Yellow</td>
<td>White 0.0703” Red 3/32”</td>
<td>Blue 0.087” Black 7/64”</td>
<td></td>
</tr>
<tr>
<td>6° Dark Purple</td>
<td>16° Red</td>
<td>Orange 0.086” Blue 1/8”</td>
<td></td>
</tr>
<tr>
<td>9° Purple</td>
<td>17° Powder Blue</td>
<td>Purple 0.094” Yellow 5/32”</td>
<td></td>
</tr>
<tr>
<td>10° White</td>
<td>21° Olive Green</td>
<td>Yellow 0.102” Beige 3/16”</td>
<td></td>
</tr>
<tr>
<td>10° Lime Green</td>
<td>22° Dark Green</td>
<td>Green 0.109”</td>
<td></td>
</tr>
<tr>
<td>12° Copper</td>
<td>Tan 0.117”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12° Cyan Blue</td>
<td>Red 0.1250”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13° Maroon</td>
<td>Black 0.1325”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15° Brown</td>
<td>Silver 0.1406”</td>
<td></td>
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</tbody>
</table>
End Suction Centrifugal Pumps

Features & Benefits

- Simple operation.
- Low maintenance.
- Insignificant excessive pressure build up in casing.
- Impeller and shaft are the only moving parts.
- Wide range of pressure, flow and capacities.

Types:
- S.A.E. centrifugal pumps are powered by an internal combustible engine.
- Frame Mount centrifugal pumps are designed for a power source suitable for driving through couplings or with belts.
- Close-coupled pumps are electric motor driven and have only one shaft and one set of bearings.

Brands Offered:
- Berkley
- Cornell
- Gorman Rupp
- Rainbow
- Goulds

Line Shaft Turbine Submersible Pump

Features & Benefits

- Generate high head and high discharge pressure.
- Flow rate less variable with pressure changes.
- Eliminate potential issues with suctions and loss of prime.
- Compact design.

Types:
- Line-shaft Turbine - The motor is mounted above the ground, and the pump unit is mounted below the water surface. A column extends from the pump to a discharge head found just below the motor. A shaft extends on a straight line from the center of the motor to the pump. The pump may be mounted a few feet to several hundred feet away from the motor.
- Submersible Turbine - The entire pump assembly and motor are submersed in the water.

Brands Offered:
- National Pump
- Berkley (submersible only)
- Flowserve
- American Marsh
- Goulds

* Examples of pump use on pages 80 & 81
Both wet well illustrations featured in this product guide are customizable to fit the customers’ unique needs.

Wet Well Assembly

SIDE VIEW ~NTS~

- Starter Box or Disconnect Box
- Pond Water Surface Level
- Discharge Valve Assembly
- Well Seal
- Galvanized Discharge Pipe
- PVC Pipe for Wet Well
- Pump Sleeve
- Submersible Pump Cable
- Check Valve
- Submersible Pump
- Submersible Motor

Note: Galvanized pipe is typical. *Sch 80 PVC pipe can be used as discharge pipe.

Floating Riser Assembly for Wet Well

FRONT VIEW ~NTS~

- PVC Float
- Cap
- Round Hole Strainer
- Suction Hose
- 90° Ell
- PVC Pipe
- Tee SSS with Bushings

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Wet Well Illustration

Submersible PVC Sleeve Wet Well

A wet well is also regarded as a pump station. Water collected in a hole is moved by pump to another location.

- Twin turbine can wet well featured.
- Single turbine can wet wells available.

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Injectors, Fert Pumps, & Tanks

Chlorinators

Accu-Tab® Chlorinators

Features & Benefits
- Accu-Tab chlorinators use 3-inch Accu-tablets, have few moving parts, use no proprietary parts, and have no small openings that can clog.
- Accu-Tab offers gravity return systems or pressure return systems.
- Gravity Return Systems (GS models) - where the chlorinator is located at an elevation higher than the point the chlorinated solution is returned to the main water stream.
- Pressure Return Systems (P) - utilizes a centrifugal pump to re-inject the chlorinated solution back into the main water line.

<table>
<thead>
<tr>
<th>Model</th>
<th>Chlorine Delivery</th>
<th>Tablet Capacity</th>
<th>Unit Footprint</th>
</tr>
</thead>
<tbody>
<tr>
<td>2075 GS</td>
<td>2.5 lbs./hr</td>
<td>75</td>
<td>20” x 20”</td>
</tr>
<tr>
<td>2150 GS</td>
<td>12.5 lbs./hr</td>
<td>150</td>
<td>20” x 20”</td>
</tr>
<tr>
<td>2300 GS</td>
<td>25 lbs./hr</td>
<td>300</td>
<td>31” x 50”</td>
</tr>
<tr>
<td>2600 GS</td>
<td>35 lbs./hr</td>
<td>600</td>
<td>32” x 60”</td>
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<table>
<thead>
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<th>Model</th>
<th>Chlorine Delivery</th>
<th>Tablet Capacity</th>
<th>Unit Footprint</th>
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</thead>
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<tr>
<td>2150 P</td>
<td>10.5 lbs./hr</td>
<td>150</td>
<td>20” x 40”</td>
</tr>
<tr>
<td>2300 P</td>
<td>25 lbs./hr</td>
<td>300</td>
<td>31” x 63”</td>
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<table>
<thead>
<tr>
<th>Model</th>
<th>Chlorine Delivery</th>
<th>Tablet Capacity</th>
<th>Unit Footprint</th>
</tr>
</thead>
<tbody>
<tr>
<td>3012</td>
<td>0.57 lbs./hr</td>
<td>12</td>
<td>9” diameter</td>
</tr>
<tr>
<td>3075</td>
<td>2.5 lbs./hr</td>
<td>75</td>
<td>13.375” diameter</td>
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<tr>
<td>3150</td>
<td>12.5 lbs./hr</td>
<td>150</td>
<td>18” diameter</td>
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<tr>
<td>3530</td>
<td>25 lbs./hr</td>
<td>300</td>
<td>24” diameter</td>
</tr>
</tbody>
</table>
Acid Injection

PULSAtron C-Plus Series

Features & Benefits
• Four distinct models are available, having pressure capabilities of 80 psiG (5.6 BAR), and flow capacities up to 30 GPD (4.7 lph), with a turn-down ratio of 100:1. Metering performance is reproducible to within ± 3% of maximum capacity.
• Viscosity Max CPS: 1000 CPS
• Stroke Frequency Max SPM: 125
• Stroke Frequency Turn-Down Ratio: 10:1
• Stroke Length Turn-Down Ratio: 10:1
• Power Input: 115 VAC/50-60 HZ/1 ph
• @ 115 VAC; Amps: 0.6 Amps
• @ 230 VAC; Amps: 0.3 Amps
• Peak Input Power: 130 Watts
• Average Input Power @ Max SPM: 50 Watts

PULSAtron E-Plus Series

Features & Benefits
• The Pulsation Series E Plus offers manual control over stroke length and stroke rate as standard with the option to choose between 4-20mA and external pace inputs for automatic control. Twenty distinct models are available, having pressure capabilities to 300 psi (21 bar) @ 3 gpd (0.5 lph), and flow capacities to 600 GPD (94.6 lph) @ 30 psi (2 bar), with a turndown ratio of 100:1. Metering performance is reproducible to within ± 2% of maximum capacity.
• Stroke Frequency Max SPM: 125
• Stroke Frequency Turn-Down Ratio: 10:1
• Stroke Length Turn-Down Ratio: 10:1
• Power Input:
• 115 VAC/50-60 HZ/1 ph
• 230 VAC/50-60 HZ/1 ph
• Average Current Draw:
• @ 115 VAC; Amps: 1.0 Amps
• @ 230 VAC; Amps: 0.5 Amps
• Peak Input Power: 300 Watts
• Average Input Power @ Max SPM: 130 Watts

AgriFlow Irri-Max™

Features & Benefits
• IRRI-MAX is a unique and powerful dispersant formulation. It provides reduced emitter clogging and improved water flow. IRRI-MAX is a concentrated formulation that is continually injected into your mainline irrigation.
• Available in by the drum or gallon

Acid Injection

Neptune 535-S-N5 “Dia-Pump”

Features & Benefits
Variable Oil By-pass™ stroke adjustment allows better valve performance than variable linkage designs. The valve checks have extra time to seat even in heavy liquids since they are idle during the by-pass portion of the suction and discharge strokes.
• EZE-CLEAN™ Valves–Cartridges can be removed for cleaning without disturbing the piping to the pump.
• All Neptune "dia-Pumps" are adjustable from 10% through 100% of capacity by micrometer dial.
• Standard motor (with metal head) 1/3HP - 1ph - 115VAC - 60c-TEFC
• Flange mount motor and PVC & Kynar head options available.
• Flow capacities at 100 psi 18.0 GPH.
• psi 100- 300.

Mister Mist’r®

Features & Benefits
• The Mister Mist’r® uses a four-way spray that instantly atomizes the chemical being injected into the irrigation stream. The result is complete suspension through your entire irrigation system.
• Mister Mist’r also serves as a positive two-way check valve to prevent backflow of water into the system. This also prevents accidental leakage of chemical into the mainline water stream during shutdown.
• Moving parts are continually cleaned by moving water, ensuring a long life.
• Plastic models are suitable for use in 6-12” diameter pipe and can handle up to 110 GPH.
• Stainless steel models are designed for high volume applications of up to 300 GPH. They are also available for use in a wide range of pipe diameters.
Fertilizer Pumps

CDS- John Blue E-Z Meter & In Series Full Range

Features & Benefits

• E-Z Meter pumping cylinders can be mounted in parallel for large volume applications or for injection of two non-compatible products. A simple change of stroke length sets the precise flow to be injected.

• Full Range fert pumps have all working parts totally enclosed for maintenance free service. All wetted parts are constructed with corrosion resistant stainless steel to ensure optimum performance over many years of service. Rates are easily adjusted with the dial pointer located on the side of the pump, which changes the length of the stroke. Depending on the pump model, units are available with 3/4 or 1 1/2 HP motor and gearbox.

<table>
<thead>
<tr>
<th>CDS Meter</th>
<th>GPH</th>
<th>Power Type</th>
<th>Max Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Z Meter (Single Piston)</td>
<td>5 - 100</td>
<td>12V, 110/220 1ph, 220/440 3ph</td>
<td>150 psi</td>
</tr>
<tr>
<td>E-Z Meter (double piston)</td>
<td>100 - 200</td>
<td>12V, 110/220 1ph, 220/440 3ph</td>
<td>150 psi</td>
</tr>
<tr>
<td>In Series Full Range</td>
<td>1.6 - 470</td>
<td>110/220 1ph, 220/440 3ph</td>
<td>120 psi</td>
</tr>
</tbody>
</table>

E-Z Meter

<table>
<thead>
<tr>
<th>Power Source</th>
<th>Model</th>
<th>Model Injection Pump</th>
<th>Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belt Drive</td>
<td>01620 01622 01623 01630 01633</td>
<td>IN-11610</td>
<td>Single</td>
</tr>
<tr>
<td>Honda Engine</td>
<td>02620 02622 02630 02633</td>
<td>IN-11630</td>
<td>Three</td>
</tr>
<tr>
<td>110-220 Volt, 1ph</td>
<td>10620 10622 10623 11630 10633</td>
<td>IN-23510-NGP</td>
<td>Single</td>
</tr>
<tr>
<td>220-440 Volt, 3ph</td>
<td>20620 20622 20623 21630 20633</td>
<td>IN-23530-NGP</td>
<td>Three</td>
</tr>
<tr>
<td>12 Volt DC Motors</td>
<td>30622 30623 30630 30633</td>
<td>IN-47010-NGP</td>
<td>Single</td>
</tr>
<tr>
<td></td>
<td>IN-47030-NGP</td>
<td>IN-47030-NGP</td>
<td>Three</td>
</tr>
</tbody>
</table>

E-Z Meter Full Range Injection Pump

Variable Oil By-pass™ stroke adjustment allows better valve performance than variable linkage designs. The valve checks have extra time to seat even in heavy liquids since they are idle during the by-pass portion of the suction and discharge strokes.

Features & Benefits

• EZE-CLEAN™ Valves–Cartridges can be removed for cleaning without disturbing the piping to the pump.

Neptune 560 Series “Dia-Pump”

Features & Benefits

• The 8000 Series and 8020 Series are self-priming up to 8 vertical feet.
• The 2088 Series Automatic Demand Pump is self-priming up to 12 vertical feet.
• Made from chemical resistant materials.
• Designed for heavy duty spraying and fluid transfer applications.
• Can run dry without damage.
• Built in check valve.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Max GPM</th>
<th>Max psi</th>
<th>Max AMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>2088-343-435</td>
<td>Automatic Demand Pump 12VDC Standard</td>
<td>3</td>
<td>40</td>
<td>7.7</td>
</tr>
<tr>
<td>2088-343-500</td>
<td>No Control Pump 12VDC Front Adapter Pump</td>
<td>3.3</td>
<td>50</td>
<td>10.1</td>
</tr>
<tr>
<td>2088-394-154</td>
<td>Automatic Demand Pump 115VAC Standard</td>
<td>3.2</td>
<td>40</td>
<td>0.98</td>
</tr>
<tr>
<td>8000-533-250</td>
<td>Bypass Pump 115VAC</td>
<td>1.4</td>
<td>50</td>
<td>0.54</td>
</tr>
<tr>
<td>8000-543-136</td>
<td>Automatic Demand Pump 12VDC Standard</td>
<td>1.8</td>
<td>60</td>
<td>7.3</td>
</tr>
<tr>
<td>8002-833-238</td>
<td>Automatic Demand Pump 115VAC High Pressure Pump with 6ft. Power Cord</td>
<td>1.6</td>
<td>100</td>
<td>0.95</td>
</tr>
</tbody>
</table>

Neptune 560 Series “Dia-Pump”
Fertilizer Pumps

**Dosatron D14MZ2, D45RE15, D8R, D20S**

**Features & Benefits**
- Dosatron fert pumps are water-powered and non-electric.
- They are accurate regardless of variations in flow and pressure.
- Dosatron fert pumps are easy to adjust with the ability to change fert injection ratios with just one external adjustment.

<table>
<thead>
<tr>
<th>Model</th>
<th>GPH</th>
<th>Power</th>
<th>Ratio</th>
<th>Max Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>D14MZ72</td>
<td>0.05 - 14</td>
<td>Water Drive</td>
<td>1:500 - 1:50</td>
<td>4.3 - 85</td>
</tr>
<tr>
<td>D45RE15</td>
<td>0.4 - 20</td>
<td>Water Drive</td>
<td>1:500 - 1:66</td>
<td>7 - 70</td>
</tr>
<tr>
<td>D8R</td>
<td>2.2 - 40</td>
<td>Water Drive</td>
<td>1:500 - 1:50</td>
<td>2 - 110</td>
</tr>
<tr>
<td>D20S</td>
<td>5 - 100</td>
<td>Water Drive</td>
<td>1:500 - 1:50</td>
<td>2 - 120</td>
</tr>
</tbody>
</table>

**Hydro Systems Chemilizer CP33 & HN55**

**Features & Benefits**
- Chemilizer pumps run off water flow - NO electricity.
- Chemilizer pumps have the ability to inject very small amounts and to dynamically adjust the injection volume.
- Easy to read injection control panel.

<table>
<thead>
<tr>
<th>Model</th>
<th>GPH</th>
<th>Power</th>
<th>Ratio</th>
<th>Max Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP33</td>
<td>12 - 200</td>
<td>Water Drive</td>
<td>1:100 - 2:100</td>
<td>4 - 80</td>
</tr>
<tr>
<td>HN55</td>
<td>.02 - 11</td>
<td>Water Drive</td>
<td>20:1 - 500:1</td>
<td>3 - 85</td>
</tr>
</tbody>
</table>

---

**Dema MixRite 500 Series, TF10 Series, & TF25 Series**

**Features & Benefits**
- MixRites are water driven injectors that use water pressure as the power source, not electricity.
- A proportional amount of additive is injected into the water line regardless of flow variation, creating a homogenized solution.
- All seals are designed to withstand harsh chemical additives and the body is made of a chemically resistant nylon-fiberglass body.

<table>
<thead>
<tr>
<th>Model</th>
<th>GPH</th>
<th>Power</th>
<th>Max Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 Series</td>
<td>.08 - 11</td>
<td>Water Drive</td>
<td>2.9 - 120 psi</td>
</tr>
<tr>
<td>TF5 Series</td>
<td>.88 - 22</td>
<td>Water Drive</td>
<td>2.9 - 120 psi</td>
</tr>
<tr>
<td>TF10 Series</td>
<td>2 - 45</td>
<td>Water Drive</td>
<td>14.7 - 120 psi</td>
</tr>
<tr>
<td>TF25 Series</td>
<td>4.4 - 110</td>
<td>Water Drive</td>
<td>14.7 - 120 psi</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Induction Rate</th>
<th>Chemical Shut-off</th>
<th>Available Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>569</td>
<td>.1% to .9%</td>
<td>Yes</td>
<td>CW, CL, PVDF</td>
</tr>
<tr>
<td>571</td>
<td>.3% to 2%</td>
<td>Yes</td>
<td>CW, CL, PVDF</td>
</tr>
<tr>
<td>574</td>
<td>.3% to 10%</td>
<td>No</td>
<td>CW, CL</td>
</tr>
<tr>
<td>TFS-005 ON/OF</td>
<td>.3% to 2%</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>TF10-001</td>
<td>.1% to 1%</td>
<td>No</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>TF10-002</td>
<td>.2% to 2%</td>
<td>No</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>TF10-005</td>
<td>.1% to 5%</td>
<td>No</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>TF25-001</td>
<td>.1% to 1%</td>
<td>No</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>TF25-002</td>
<td>.2% to 2%</td>
<td>No</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>TF25-005</td>
<td>.1% to 5%</td>
<td>No</td>
<td>ON/OFF</td>
</tr>
</tbody>
</table>
Fertilizer Pumps/Tanks

Mazzei 384, 584, 1078, & 1583

Features & Benefits
- Mazzei’s chemigation technology delivers a uniform distribution of chemicals and fertilizers within the irrigation water.
- No electrical connections needed.
- Mazzei Injectors offer the advantages of an easy to maintain non-mechanical system.
- Mazzei Injectors are designed for vacuum transfer of irrigation chemicals, they provide safe chemigation.

<table>
<thead>
<tr>
<th>Model</th>
<th>Motive Flow GPM</th>
<th>Suction Rate GPH</th>
</tr>
</thead>
<tbody>
<tr>
<td>384</td>
<td>0.7 - 3.5</td>
<td>2.1 - 11</td>
</tr>
<tr>
<td>584</td>
<td>2.1 - 10.2</td>
<td>10 - 32</td>
</tr>
<tr>
<td>1078</td>
<td>5.5 - 26</td>
<td>2.7 - 94</td>
</tr>
<tr>
<td>1583</td>
<td>10.7 - 48</td>
<td>53 - 232</td>
</tr>
</tbody>
</table>

Vertical Fertilizer Tanks

Features & Benefits
- Vertical tanks are strong and versatile enough for your bulk storage needs.
- Available in a variety of styles and sizes from 65 gallons to 16,500 gallons.
- These vertical tanks feature stable, flat bottoms, maximum drainage siphon assemblies and molded-in tie down lugs.
- Most standard size is a vertical 2500 gallon tank with a diameter of 90" and height of 107".
Plant Nutrition

Albion® Metalosate®

Albion® Metalosate® liquid foliars are true amino acid chelates designed for foliar application on plants to prevent or correct nutrient deficiencies that may limit crop growth and yields. Amino acids are the basic building blocks of protein found in all living organisms, the chelation of minerals with amino acids provides a tremendous advantage in the efficiency of absorption and translocation of minerals within plants.

The METALOSATE® foliar line of products are also available in an organic-approved form.

Product Advantages

- Greater assimilation into the plant.
- Faster mineral nutrition delivery.
- Hardier plants.
- Higher yields.
- Increased vigor.
- True Amino Acid Chelate.
- Rapidly absorbed.
- Rapidly translocated.
- Enhanced systemic performance.
- Tank mixes well with pesticides.
- Patented manufacturing process.

Metalosate Foliar products may be used on:
- Legumes
- Leafy Vegetables
- Grain Crops
- Root Crops
- Cucurbits
- Cole Crops
- Deciduous Fruits
- Vine Crops
- Tropical and Subtropical Fruits
- Woody and Herbaceous Ornaments
- and many other crops.

Liberty Acres Fertilizer

Liberty Acres liquid fertilizers are fertigation-grade and custom-blended to the crop, climate, and growing systems. Fertigation-grade fertilizers are made from the highest quality materials with limited impurities and no by-products. Our finished products are “double decanted” and filtered to ensure that the liquid will run cleanly through the drip irrigation lines to the plants.

Characteristics of liquid fertilizers include:
- Targeted nutrient placement
- Customizable completely water soluble blends
- Controlled salt concentration for reduced salt burn potential

All Liberty Acres liquid fertilizers are:
- Filtered
- Double decanted
- Blended to order
- Sampled on every load
- Dependable
- Consistent

Liberty Acres offers fertigation-grade blends containing:
- N-P-K. Any Ratio
- Calcium
- Magnesium
- Copper
- Boron
- Manganese
- Iron
- Zinc
- Molybdenum

In addition to our liquid fertilizer line and Albion® Metalosate® products, we offer a large array of other foliar nutritional products, dry fertilizers, phosphite-based fungicides, organic materials, amendments, and more.

To assist growers reach their goals we have prepared guided recommendations for our products to maximize their potential. We also offer our customers complete nutritional programs based on their operation, crop, and goals. Contact us for more information regarding our product recommendations and plant nutrition programs.
Twine, Plastic, & Ground Covers

Plastic Twine

Features & Benefits
Poly-Pro Twine is great for a wide variety of crops in both field and greenhouse production. 3-lb box, 2100-ft/lb

Specifications:
Twisted Polypropylene "Tomato Twine"
UV stabilized
Standard product 2100 ft/lb white.
Other weights and colors available upon special request
Made in Guatemala

Plastic Mulch

Available In:
• Standard and specialized bed sizes.
• Black on black and white on black plastics.
• VIF
• TIF
• Metalized
• Budget friendly to specialized plastic thicknesses.

Stakes

A variety of sizes and types of wooden stakes offered.
• Tomato & Pepper stakes.
• Honduran Pine agricultural stakes.
• Untreated or Treated stakes.
• Blunt or pencil pointed.
• Rough sawn.
• String-tied sub-bundles for easy handling.

WinFab Ground Covers

WINFAB Woven Ground Cover is an excellent choice for nursery, greenhouse, landscape applications, and other areas where weed growth needs to be controlled without the use of chemicals.

WINFAB’s woven ground cover is manufactured using high tenacity polypropylene yarns that are woven to form a dimensionally stable network, which allows the yarns to maintain their relative position. It resists ultraviolet deterioration, rotting, and biological degradation and is inert to commonly encountered soil chemicals.
**Travelers**

**KIFCO T23x720 Ag-Rain® Water Reel®**

**Features & Benefits**
- Turbine Driven Water-Reel® with 2.3" ID x 720' MDPE Tube
- Irrigated width 154' - 203'
- Irrigated length 797' - 822'
- Retraction speed 30-300 foot per hour
- Irrigated area per run (acres) 2.8 - 3.8
- GPM range is 74-152
- Inlet psi range is 77-150
- Hours per full run is 2.4-24

**KIFCO T30x660 Ag-Rain® Water Reel®**

**Features & Benefits**
- Turbine Driven Water-Reel® with 3.0" ID x 660' MDPE Tube
- Irrigated width 186' - 253'
- Irrigated length 753'-787'
- Retraction speed 30-300 foot per hour
- Irrigated area per run (acres) 3.2 - 4.6
- GPM range is 125-330
- Inlet psi range is 72-140
- Hours per full run is 2.2-22

**KIFCO T37x1080 Ag-Rain® Water Reel®**

**Features & Benefits**
- Turbine Driven Water-Reel® with 3.7" ID x 1080' MDPE Tube
- Irrigated width 200' - 295'
- Irrigated length 1,180'-1,228'
- Retraction speed 30-300 foot per hour
- Irrigated area per run (acres) 5.4 - 8.3
- GPM range is 165-474
- Inlet psi range is 71-152
- Hours per full run is 3.6-36
Travelers

KIFCO E40x1320 Ag-Rain® Water Reel®

Features & Benefits
• Gas Engine Driven Water-Reel® with 4.0" ID x 1320' MDPE Tube
• Irrigated width 228' - 298'
• Irrigated length 1,434' - 1,469
• Retraction speed 60-400 foot per hour
• Irrigated area per run (acres) 7.5 - 10
• Fuel cell capacity (gallons) is 6 (approx. 37.5 hr. runtime)
• GPM range is 205-480
• Inlet psi range is 68-140
• Hours per full run is 3.3-22

Amadas Reel Rain Jr. - T200L x 580

Features & Benefits
• Turbine drive water motor with speed control, automatic shutdown, PTO rewind capability, stabilizer legs, hose guide, pressure gauge, three wheel chassis, and 2" supply hose.
• Hose I.D 2”
• Hose length 580’
• Pressure (psi) 47 - 140
• GPM range 47 - 125
• Acres with 1” in 5 days 11-30

Amadas Reel Rain Jr. - T200S x 320

Features & Benefits
• Turbine drive water motor with speed control, automatic shutdown, PTO rewind capability, stabilizer legs, hose guide, pressure gauge, three wheel chassis, and 2” supply hose.
• Hose I.D 2”
• Hose length 320’
• Pressure (psi) 40 - 150
• GPM range 25 - 143
• Acres with 1” in 5 days 6 - 34
**Andros Hybrid Injection Tool**

**Features & Benefits**
- Sturdy tool for injecting a wide variety of sizes and styles of drip tape.
- Chrome tip & chrome shin-guard. Both of these high wear components are with no cutting or welding required.
- Shear bolt protection. The Hybrid tool mounts via 2 large high strength bolts, a pivot bolt and shear bolt protecting the tool and tool-bar from damage.
- Easy access, large diameter guide block that permits gentle passage of couplers and large pressure compensating emitters. The pivoting access door allows operators to inspect tool for internal wear or contamination.

**Andros Cast Aggressive Tip Tape Layer**

**Features & Benefits**
- This Cast Aggressive Tip Tape Layer can be used on tool bars pulling planters and bed-shapers.
- The aggressive tip helps pierce tough soils allowing maximum ground penetration.
- Hi-Chrome construction with a narrow profile.
- 3/4 X 2 1/2 Plow bar.
- Easy access tape shoe inspection.
- 0” - 6” depth.

**Andros Universal Coupler Tool**

**Features & Benefits**
- Safe and efficient method for injecting drip tape that has been spliced together with mechanical couplers.
- Allows a coupler to be injected smoothly up to depths of 12 inches.
- Large plastic shoe allows the coupler to make the 90-degree turn into the ground without pinching the tape.

**Andros Series III Carrier**

**Features & Benefits**
- The Coil Retrieval System mounts to any tool-bar using standard clamps.
- Available with either open or closed center hydraulics, the coil retrieval option can run in single or multiple head configurations using the tractors auxiliary hydraulics.
- The system has a speed control that allows the operator to control tension and speed of retrieval.
Plasticulture Equipment

**Reddick Equipment Company RMC-172 Single Row Mulch Layer**

Whether you are running a roadside strawberry stand or a multi acre produce operation, Reddick’s new line of mulch laying equipment is right for you. We have pulled together some of the best in the industry to totally revamp our line of mulch laying equipment with the focus being set on ease of adjustment.

**Features & Benefits:**
- Quality manufacturing with precision laser cut components
- New simplified design for ease of adjustment
- Available in 1, 2 or 3 row configurations
- Available in varying row spacing
- Adjustable gathering blades
- Adjustable UHMW lined press pan
- Press pan outfitted with kick out wings
- Adjustable four axis press wheels and covering discs
- Adjustable plastic roll bed to accommodate plastic widths up to 66”
- Operator seat mounted on the rear for better access to components
- Crown roller for a more defined bed

**Reddick Equipment Company RMC-100 Hole Punch**

This plasticulture hole punch is equipped with spiked wheels. The hole puncher goes Over the bed to perforate the plastic mulch film before bare root or plug settings.

**Features & Benefits:**
- Cat. I or II 3-point hitch frame
- 2 to 4 spiked wheels depending on the number of rows
- Different spike size & spacing according to the type of transplants
- Adjustable gauge wheels for proper bed alignment
- Front stands for storage

**Reddick Equipment Company RMC-105 Mulch Lifter**

This mulch lifter is designed to lift various sizes of mulch with minimum adjustments.

**Features & Benefits**
- Quality manufacturing with precision laser cut components
- Simplified design for ease of adjustment
- Available in 1, 2, or 3 row configurations
- Adjustable to varying row spacing
- Cutting coulter to split residue in front shank
- Lifting fingers on rear of cutting blade
- UHMW lined frog on foot for increased lift

**Reddick Equipment Company YF-10.5 Plastic Puller**

The YF-10.5 Plastic Puller is designed to reduce the labor cost of removing plastic mulch and drip tape from your field.

After lifting your plastic mulch with our Reddick YF-605 lifter, removing the plastic from the field is made easier with the YF10.5 Plastic Puller.

The Hydraulically Driven Spindles retrieve the plastic as you drive, then swing out to release.

**Reddick Equipment Company YF203-90B Mulch Layer**

This machine is for raised bed much application and fumigation. Treated area will depend on press and pan size (optional). This applicator will lay up to 54” wide plastic.

**Features & Benefits:**
- Main frame—3” X 3” square tool bar frame with 3-point hitch.
- Two smooth press wheels with floating action for correct placement of plastic tuck.
- Press pan—3/16” steel reinforced with 1/2” UNHW liner material. Made to order.
- Crown rollers insure fast and easy roll conversion along with improved bed definition.
- Bedding plows for pre-forming soil ahead of press pan.
- Two cylinder rack for two methyl bromide cylinders.
- Customizations available.
Reddick Equipment Company S5 Sprayers

Reddick's legendary S5 Bridge Boom Sprayers offer flexibility in the field with a heavy-duty compact design. They feature:

- Heavy-Duty Tubular Frame Fits Category II or III Quick Hitch
- Choice of 200, 300 or 400 Gallon Capacity Poly Tank
- Bridged Boom Arms. Three Pieces of Square Tubing Trussed
- Stiff Arm Connecting Boom Arm to Back Frame
- Boom Mounted Shock Absorbers
- High Volume In-Line Strainer
- QJ300 Quick-Jet No-Drip Nozzle Bodies with Diaphragm Checks
- VisiFlo Nozzles for Insecticide and Fungicide Spraying
- Hydraulic Cylinders for Boom Fold and Hydraulic Hose Package with Restrictors

Reddick Equipment Company In-Line/ Single Tube Side Mount Tanks

Reddick's In-Line/Side Mount Tanks are designed to allow the tanks to be mounted parallel to the direction of travel, making the assembly more compact and easier to transport.

- Straight Frame or 8" Drop Frame Available.
- Component Parts Options
  - Conversion Kit to Mount Existing Saddles & Bands
  - Side Receiver Plates & Braces Only
- Pumps & Control Kit Options

Reddick Equipment Company Front Mount Tank Assemblies

Reddick's front-mount tank and frame assemblies bolt together to accommodate tractors with different frame widths and designs no longer is it necessary to commit one tractor to front-mount applications. Select from straight or drop frame designs. Then select a tank assembly.

- Front Tank Assembly options from 150 - 300 Gallons
- Pumps & Control Kit Options

Reddick Equipment Company 110 Gallon HP 3PTH Sprayer

Reddick's high pressure fruit and vegetable sprayer with 3-point hitch is designed for disease and insect control.

**Standard Features:**
- Udor High Pressure Diaphragm Pump
- Adjustable Jet Agitation
- High Pressure Manual Control Valve
- High Capacity Suction Strainer
- Adjustable Pressure Regulator
- Break-A-Way Boom Assembly *
- Liquid Filled Pressure Gauge
- Brass Boom Fittings for High Pressure
- Two Separate Boom Control Levers
- Hi-Volume 1/2" ID, 600psi Boom Hoses
- Frame Mounted Pump w/Drive Shaft
- Large 10" Fill Well & Vented Lid

* Standard Boom Assembly set-up to spray: 3 Beds on 5-6’ Center

Reddick Equipment Company Ditchers

Now making water furrows in dry ground and draining wet potholes is no problem. Eliminate most shovel work and cut more uniform ditches with Reddick Chain Drive Ditchers. Designed to cut a smooth ditch that can be crossed easily with harvest equipment. Combine headers can remain close to the ground with scooping dirt, as with a plowed drain furrow. Dig ditches with a single or multiple passes using Reddick’s adjustable skid plate. For convenience a built-in parking stand holds the ditcher upright for easy connection to your tractor.

**Specifications:**
- Cutter head – 3 replaceable heat-treated, high carbon steel blades and 3 thrower blades
- Chain drive – heavy-duty #120 roller chain in oil bath. Shafts are 1-7/16” diameter high carbon steel
- A-frame – category i & ii three-point hitch
- Main frame – all welded heavy-duty rectangular tubing used for main frame & chain housing
- Universal drive shaft – 1-3/8” 6-spline coupler for 540 Rpm. Telescoping shaft is fully shielded
- Horse power - 60hp rated pto & chain drive
- Slip clutch – heavy-duty double disc clutch for overload protection on drive system
Filter Trailers

TriEst Irrigation builds filter trailers to meet a grower’s needs.

Features & Benefits
- Filter trailers allow you to filter multiple sites with just one filter system.
- Able to work with different power availabilities.
- Different size trailers available.
- Customizable with options for controllers and pumps.
- TriEst Irrigation can supply all the connecting field hoses.

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