**TOP 12-Outlet Drip Zone**

**Specifications:**
- **Emitter Dimensions:** 3” W x 2” H (7.6 cm W x 5 cm H)
- **TOP Flow Rates:**
  - .6 gph per zone (2.2 LH) Color Code – Black
  - 1 gph per zone (4 LH) Color Code – Red
  - 2.2 gph per zone (8.3 LH) Color Code – Green
  - 3.3 gph per zone (12.5 LH) Color Code – Purple
- **Recommended Working Pressure:** 15-50 PSI (1-3.5 bar)
- **Use with 1/8” (.187 OD) or 1/4” (.156 ID) distribution tubing**
- **Operating Pressure:** 8-80 PSI
- **TOP Kits contain 100’ 1/8” distribution tubing, accessories and stakes**
- **1/2” female NPT thread**
- **Filter mesh requirement:** 155 mesh

**Features:**
- 12-outlet emitter
- 12 individually pressure compensating, self flushing emitters to minimize clogging
- Flow rates .6, 1, 2.2, and 3.3 gph (2.2, 4, 8.3, 12.5 LH)
- Interchangeable emitters to combine flow rates in a single head
- Color coded emitters and barbs easily identify flow rate at each zone
  - Each emitter individually filtered (approximately 80 mesh)
  - Backup mini-disk filter
  - Rugged materials to withstand the most adverse conditions
  - Install above grade or place below grade in a 6” emitter box
  - 1/4” elbow and barb allow the use of 1/4” distribution tubing
  - Inlet plugs provide closure options of up to eight emitters

**Ordering Information**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>TOP-005</td>
<td>.6 GPH per zone</td>
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<tr>
<td>TOP-010</td>
<td>1 GPH per zone</td>
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<tr>
<td>TOP-020</td>
<td>2.2 GPH per zone</td>
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<tr>
<td>TOP-030</td>
<td>3.3 GPH per zone</td>
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<tr>
<td>TOP-100</td>
<td>KIT with 1 GPH per zone</td>
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<td>TOP-300</td>
<td>KIT with 3.3 GPH per zone</td>
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Phone: 800-322-9146 • FAX 760-727-0282
www.digcorp.com

**Drawing File No.: TOP.exe**
Part 1 Products

1.1.2.5 Distribution Tubing Holding Stake

1.2 Distribution Tubing

Part 2 Submittals

Fill in the appropriate number of units and submit (qty) with a copy of the catalog and instruction manual.

a. The TOP 12 outlet pressure compensating drip head shall have a minimum of 12 outlets and shall be able to operate in a pressure range from 8 to 10 PSI. The TOP shall have emitter uniformity of 94% to 97% at 50 PSI at a constant flow rate, the manufacturer’s coefficient of variation (CV) of .05 for .63 GPM, .07 for 1 GPM, .03 for 2.2 GPM and .01 for 3.3 GPM (Tested). The TOP shall be constructed of ultra-violet-resistant plastic with narrow slots in the bottom of the box to allow the installation of distribution tubing into the TOP 12 outlet pressure compensating drip head. The removal of the cover will allow for periodic inspection, servicing and maintaining of the TOP 12 outlet.

Part 3 Execution

3.1 TOP System Installation

Install control valve assemblies with materials and installer’s specifications. The number of drip heads on line shall not exceed the recommendation. Install valve assembly with a minimum of 2 to 4" clearance from the top of the box. The arrow molded on the AC valve shall be pointing in the direction of the water flow. After installation of all control valves PVC pipes, risers and the system has been flushed out, install drip head to the 1/2" riser assembly. Conforming to the manufacturers recommendation or to standard methods used by the irrigation industry. After installation of all pipes and risers for the TOP 12 outlet and before installing the drip heads, the contractor shall operate the control valve assembly manually by turning the manual lever 1/4 turn to open and to close confirming support and placement shall conform to standard methods used by the irrigation industry. After installation of all pipes and risers for the TOP 12 outlet and before installing the drip heads, the contractor shall operate the control valve assembly manually by turning the manual lever 1/4 turn to open and to close confirming support and placement shall conform to standard methods used by the irrigation industry.

1.2.6 Drip Irrigation Box with Cover

The box and box cover (as detailed) shall be constructed of ultra-violet-resistant plastic with narrow slots in the bottom of the box to allow the installation of distribution tubing into the TOP 12 outlet pressure compensating drip head. The removal of the cover will allow for periodic inspection, servicing and maintaining of the TOP 12 outlet.

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The box and box cover (as detailed) shall be constructed of ultra-violet-resistant plastic with narrow slots in the bottom of the box to allow the installation of distribution tubing into the TOP 12 outlet pressure compensating drip head. The removal of the cover will allow for periodic inspection, servicing and maintaining of the TOP 12 outlet.

1.1.2.4 Outdoor Pressure-Peaking DRIP HEAD

The TOP 12 outlet pressure compensating drip head shall be a manifold with twelve independent pressure-compensating emitter outlets conforming to the following:

1. The nozzle shall have nominal flow rates with black representing 0.6 GPM, red representing 1 GPM, green representing 2.2 GPM and purple representing 3.3 GPM.

2. The recommended working pressure shall range from 15 to 50 PSI.

3. The minimum pressure on the last head shall not drop below 2 PSI to ensure the proper function of the self-flushing mode. The operating sequence should be followed in PSI, the nozzles are in self-flushing mode and is achieved as follows: at 3 PSI the flow rate is relatively high, the nozzle is in self-flushing mode and the diagram is completely open allowing purge of sediment or other debris that may not have been captured by the mini disk filter. As the pressure increases between 3 to 8 PSI, the diagram slowly begins to close, flow is still but high dad decreasing. The diagram is completely closed between 6 to 8 PSI and the flow is constant.

During initial system build-up of up to 10 PSI, the flow discharge will increase by up to 15% and bring the TOP system to a flushing mode.

1.2.1 AC Control Valve Assembly Instruction Manual

Install control valve assemblies with materials and installer’s specifications. The number of drip heads on line shall not exceed the recommendation. Install valve assembly with a minimum of 2 to 4″ clearance from the top of the box. The arrow molded on the AC valve shall be pointing in the direction of the water flow. After installation of all control valves PVC pipes, risers and the system has been flushed out, install drip head to the 1/2″ riser assembly. Conforming to the manufacturers recommendation or to standard methods used by the irrigation industry. After installation of all pipes and risers for the TOP 12 outlet and before installing the drip heads, the contractor shall operate the control valve assembly manually by turning the manual lever 1/4 turn to open and to close confirming support and placement shall conform to standard methods used by the irrigation industry. After installation of all pipes and risers for the TOP 12 outlet and before installing the drip heads, the contractor shall operate the control valve assembly manually by turning the manual lever 1/4 turn to open and to close confirming support and placement shall conform to standard methods used by the irrigation industry.

1.2.1 Outdoor Pressure-Peaking DRIP Head Installation

After installation of all control valves PVC pipes, risers and the system has been flushed out, install drip head to the 1/2″ riser assembly. Conforming to the manufacturers recommendation or to standard methods used by the irrigation industry and as detailed. Plant all specimens of trees and shrubs. Excavate a narrow path to a depth of 4-10″ below finished grade from each plant to the nearest riser and lay out all distribution tubing indicated on the plans (see installation details). Remove the cover and the Mini-disc™-filter. Attach 1/8″ distribution tubing to outlet ports or if used with 1/4″ distribution tubing, connect 1/4″ coupler or elbow side to side 1/4″ distribution tubing and then attach to the drip outlet ports. Use the rubber caps to close any unused outlets. Install Mini-disc™-filter and cover to the drip head and tighten covers by hand, Secure 1/8″ or 1/4″ distribution tubing in plant nest area. If using more than one outlet, space outlets a minimum of 6″ to 8″ apart using the 6″ plastic stake and add a bug cap at the end if needed, insert stake into soil level with distribution tubing. Pressure system to verify that all heads are working correctly. Install subterranean stand pipe box and all distribution tubing between the two outlets of the irrigation box (as manufacturers specification). The number of drip heads on line shall not exceed specification recommendation.

4.1 Field Quality Control

Final prior to trench filling, the contractor shall operate each valve via the controller program. The contractor shall check for proper installation of the drip box and the operation of each TOP drip head emitter with all outlets and make sure it has been installed according to the manufacturers specification. The contractor shall make all the necessary corrections, if any problems occur, and re-test the system before filling trenches and excavations.

If you have any problems call the manufacturer at 1-800-322-9146

5.1 Final Inspection

Contractor shall be responsible for all work until inspected. Contractor shall request the presence of the project operator at least two days in advance of final inspection and run each control valve on the system for a minimum of one minute to verify correct control valve and TOP twelve-outlet head operation.

6.1 Completion of Work

Upon job completion and testing of the system, the contractor shall instruct the user on proper operation and maintenance of the system and turn over to the authorized representative:

Catalog information # 41-008  TOP instruction manual # 26-002  50 replacement emitter: Catalog # 10-019 for .63 GPM, 10-020 for 1 GPM, 10-021 for 2.2 GPM and 10-023 for 3.3 GPM.