

TOP 12-Outlet PC Drip Manifold

Pressure Compensating Drip Manifold



Precise Application of Water & Nutrients

DIG's TOP is an advanced pressure compensating drip manifold that offers a slow, precise application of water and nutrients directly to the plant's root zone in a predetermined fashion. It contains flow-regulating, self-flushing drip emitters with a built-in filter that perform at a wide range of operating pressures.

Features

- Constructed with 12 built-in individually pressure compensating drip emitters
- Self-flushing emitters allow passage of water and minimize clogging
- Even uniformity from each outlet at a pressure range of 10 to 80 PSI
- Interchangeable, color-coded drip emitters for variable flow rates
- Each drip emitter is individually filtered
- Can be used with 1/4" or 1/8" distribution tubing
- Made with rugged materials to withstand adverse conditions

High Uniformity

- Utilizes individual and interchangeable pressure compensating drip emitters to ensure an equal flow over a wide range of operating pressures from 10 to 80 PSI

Flow Range Flexibility

- Available with .6, 1, 2, and 3.3 GPH per outlet, the TOP delivers water directly to up to 12 plants with less water evaporation and wind-drift than the overhead sprinkler heads it replaces.



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Specifications

- Recommended operating pressure: 15-50 PSI (1 -3.4 BAR)
- Pressure compensating range: 8-80 PSI (.5-5.6 BAR)
- Flow rates: .6, 1, 2.2, and 3.3 GPH
(2.3, 3.8, 8.3 and 12.5 L/H)
- Inlet size: 1/2" FNPT
- Used with 1/8" (.187" OD) or 1/4" (.150"-.160" ID) distribution tubing
- Filter requirement: minimum of 120 mesh/130 microns, depending on water quality and concentration of dirt particles
- Materials:
 - Body and cover: high-impact plastic
 - Filter: nylon
 - Diaphragm: silicon
- Dimensions: 3" W x 2" H (7.6 cm W x 5 cm H)



Emitter Conditions

During Self Flushing Mode

0-3 PSI

3-8 PSI

8-80 PSI

The TOP concept consists of self-cleaning pressure compensating emitters with the ability to compensate for pressure fluctuations between 8-80 PSI. The self-flushing function works between 0-8 PSI and is achieved as follows:

At 0-3 PSI, the flow is relatively high and the emitter is in flushing mode, while the diaphragm is completely open.

As the pressure increases between 3-8 PSI, the diaphragm slowly begins to close; flow is still high, but steadily decreasing. The diaphragm is closed between 8-80 PSI, and the flow is constant.

Opening and closing the system will bring the TOP to a flushing mode.

Performance

Maximum number of TOP on single length of PVC lateral

Color	Black	Red	Green	Purple
Flow in GPH	.6 GPH	1 GPH	2.2 GPH	3.3 GPH
Number of TOPs	Total flow rate in GPM			
1	0.12	0.2	0.44	0.66
5	0.6	1	2.2	3.3
10	1.2	2	4.4	6.6
15	1.8	3	6.6	9.9
20	2.4	4	8.8	13.2
25	3.0	5	11.0	16.5
30	3.6	6	13.2	19.8
35	4.2	7	15.4	23.1
40	4.8	8	17.6	26.4
45	5.4	9	19.8	29.7
50	6.0	10	22.0	33.0

How to specify

Model	Description
TOP-000	Manifold only
TOP-005	.6 GPH per outlet
TOP-010	1 GPH per outlet
TOP-020	2.2 GPH per outlet
TOP-030	3.3 GPH per outlet
TOP-100	KIT with 1 GPH per outlet
TOP-200	KIT with 2.2 GPH per outlet
TOP-300	KIT with 3.3 GPH per outlet
Replacement drip emitter with O-ring	
10-019	.6 GPH per outlet
10-020	1 GPH per outlet
10-021	2.2 GPH per outlet
10-022	3.3 GPH per outlet
10-016	Bug plug for 1/8" micro tubing
25-007	Converter elbow for 1/4" micro tubing

Packaging Information

Model	Description	Pack Qty	Box Qty	Box Size	Box Weight
TOP-000	TOP Manifold	1	50	14 3/4" x 8 3/8" x 7 5/6"	28 lbs.
TOP-XXX	TOP with .6, 1, 2 & 3.3 GPH				