



# Typhoon 990 Series

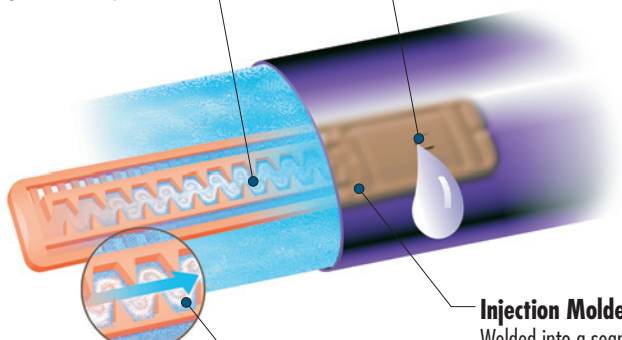
## The Ultimate Thinwall Dripperline for Long Term Row Crop Irrigation To 2,000 Feet

### Industry's Widest Flow Path

Wider cross-section allows large particles through short flow path.

### Advanced Flap Technology

Systematically opens and closes during start-up and shut-down providing uninterrupted flow while open and preventing soil ingestion and root intrusion when closed.



### Injection Molded Drippers

Welded into a seamless wall of tubing for added strength, durability and long-term performance.

### TURBONET

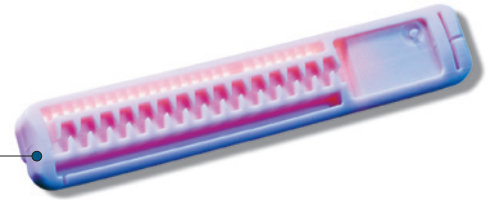
#### Increased Flow Path Velocity

Commonly used turbulent drippers have overlapping tooth patterns, easily catching debris.

**Turbonet Technology** improves dripper performance by widening the tooth pattern, maximizing flow path velocity, allowing contaminants to pass easily through the dripper, virtually eliminating plugging.

### Product Advantages

- Injection Molded Drippers - welded into a wall of seamless tubing preventing damage to the drippers during installation and distortion of the dripper flow even as tubing stretches and expands
- Seamless Construction
  - Stronger, more durable than comparable drippers
  - Fortifies against splitting or bursting under high pressures required for proper flushing
  - Eliminates root growth and intrusion - no path for roots to follow
- Dripperlines packaged with more feet per reel, the industry's longest, requiring fewer fittings and less time changing reels during installation
- Industry's lowest filtration requirement - 120 mesh
- Larger filter inlets, provide secondary filtration - reduces clogging, maintaining the essential supply of water to the dripper for constant delivery of water flow



### Applications

- For sub-surface drip installations - deep burial (up to 24").
- For durable protection against rocks and insect intrusion.
- For a wide array of row crops when long runs are needed.

### Specifications

Wall thickness (mil): 13

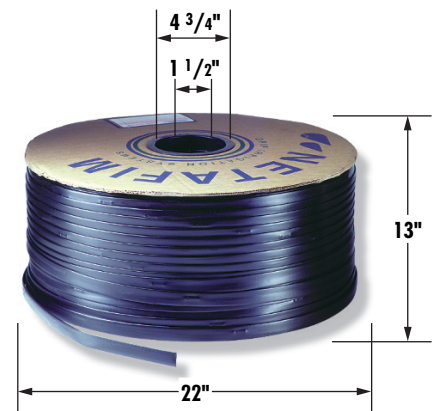
Inside diameter (inches): .990

Nominal flow rates (GPH) @ 10 psi:  
.18, .24, .36, .58

Common spacings: 12", 18", 24", 30"

Recommended filtration:

- 120 mesh for .24, .36 and .58 GPH
- 140 mesh for .18 GPH



### NETAFIM USA

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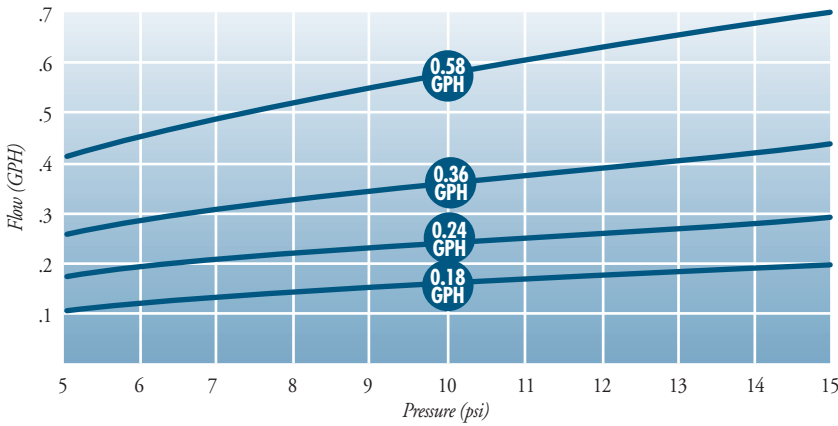
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# Typhoon 990 Series Technical Information

## TYPHOON Flow Rate vs. Pressure



## DRIPPER DATA

Dripper GPH	Exponent (x)	Constant (k)	Kd (990)	Cv
0.18	0.48	0.052	0.08	.025
0.24	0.48	0.081	0.08	.025
0.36	0.48	0.118	0.08	.025
0.58	0.48	0.188	0.08	.025

## DRIPPER FLOW PATH DIMENSIONS

Dripper	Length	Depth	Width
0.18	.9"	.018"	0.024"
0.24	.9"	.024"	0.024"
0.36	.9"	.028"	0.032"
0.58	.9"	.034"	0.037"

## MAXIMUM OPERATING PRESSURE

Wall Thickness	psi
13 mil	14

## PACKAGING DATA

Wall	Reel Length	Weight	Reels per Pallet	Weight per Pallet
13 mil	3,000'	57 lbs	12	957 lbs

Packaging data using 22" x 11" cardboard reels with 1 1/2" hub hole.  
Weights are approximate. 16 reels per pallet. Pallet weight includes 45 lbs. for weight of pallet.

## LENGTH OF RUN @ 0% Slope TYPHOON 990, 0.18 GPH Dripper (0.18 @ 10 psi)

Dripper Spacing	GPM per 100 ft.	Emission Uniformity (EU)		
		94%	92%	90%
12"	0.275	1130	1370	1560
18"	0.183	1500	1815	2070
24"	0.138	1820	2220	2520
30"	0.110	2120	2585	2930

## LENGTH OF RUN @ 0% Slope TYPHOON 990, 0.24 GPH Dripper (0.24 @ 10 psi)

Dripper Spacing	GPM per 100 ft.	Emission Uniformity (EU)		
		94%	92%	90%
12"	0.368	950	1145	1300
18"	0.246	1250	1525	1730
24"	0.184	1530	1855	2100
30"	0.147	1780	2160	2450

## LENGTH OF RUN @ 0% Slope TYPHOON 990, 0.36 GPH Dripper (0.36 @ 10 psi)

Dripper Spacing	GPM per 100 ft.	Emission Uniformity (EU)		
		94%	92%	90%
12"	0.539	730	885	1005
18"	0.360	965	1170	1335
24"	0.270	1170	1430	1630
30"	0.216	1370	1660	1890

## LENGTH OF RUN @ 0% Slope TYPHOON 990, 0.58 GPH Dripper (0.58 @ 10 psi)

Dripper Spacing	GPM per 100 ft.	Emission Uniformity (EU)		
		94%	92%	90%
12"	0.861	540	655	745
18"	0.573	715	870	990
24"	0.430	870	1060	1200
30"	0.344	1010	1230	1400

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