

TORO

Count on it.

Drip In[®] Classic

Turbulent Flow Dripline

Micro-Irrigation



The Drip In[®] Emitter



Inserted in the tube...



becomes a permanent part of it.



Drip In Classic is the most effective and economical choice for most permanent applications. The hose with the integral in-line emitter is rugged and lightweight for easy installation and retrieval. The in-line emitter, with its proven turbulent flow path design and raised inlets, offers high resistance to clogging for the most demanding of applications.

IMPROVED CROP YIELD AND QUALITY

- Water distributed evenly over all rows in the irrigated area.
- Fewer weeds from surface water.
- Precise application of fertilizers.
- Better control of plant stress.
- Harvest timing becomes controllable.
- Crops can be irrigated during harvesting to maximize total yield.

CULTURAL COST BENEFITS

- Less irrigation water applied during growing season.
- Quantity of fertilizers can be reduced.
- Reduced labor costs for irrigation and harvesting.

THE IN-LINE EMITTER

- The in-line emitter is a labyrinth type, turbulent flow dripper. The emitter is enclosed and inseparably welded to the inside wall of the tubing as it is extruded in the manufacturing process. This emitter has enjoyed over 20 years of reliable performance in a variety of applications.
- Classic[®] Dripline is a one piece emitter enclosed tube. It is rugged, lightweight and very flexible. It can be laid out and re-rolled easily with no damage to the in-line emitters. Only the highest quality resins are used. Drip In[®] dripline is the most effective and economical choice for permanent or row crops. Classic dripline now comes with the Toro Micro-Irrigation Blue Stripe[®] of quality.

ADVANTAGES

- Highly clog-resistant due to wide, deep turbulent passage ways and raised inlets.
- Dual-opposed outlets.
- Extremely accurate flow rate due to high quality control standards.
- Reduced labor and installation cost. No hole punching, lost emitters or handling damage.
- Lower friction loss allows longer runs and fewer mainlines.
- Flow rate can be varied according to crop requirements.
- For above and below ground applications.*
- Emitters are factory pre-installed, thus requiring no field installation (hole punching, clip-ons, etc.).

Note: For subsurface applications, we recommend Drip In[®] with Rootguard[®].

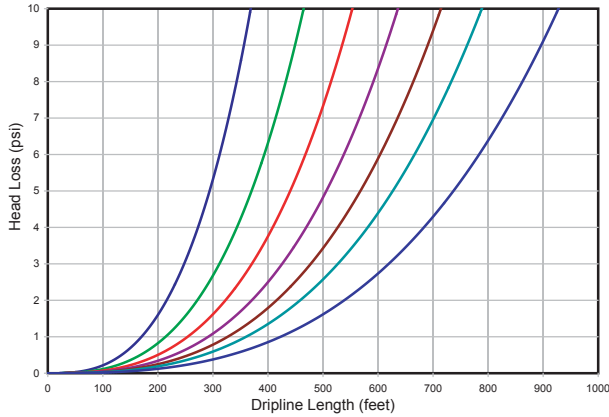
Drip In[®] Classic

Drip In[®] Classic

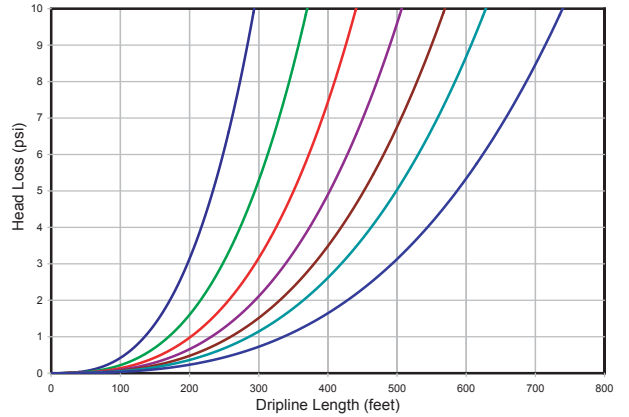
Spacings: — 18" — 24" — 30" — 36" — 42" — 48" — 60"

0.550 (16MM) DRIP IN CLASSIC DRIPLINE

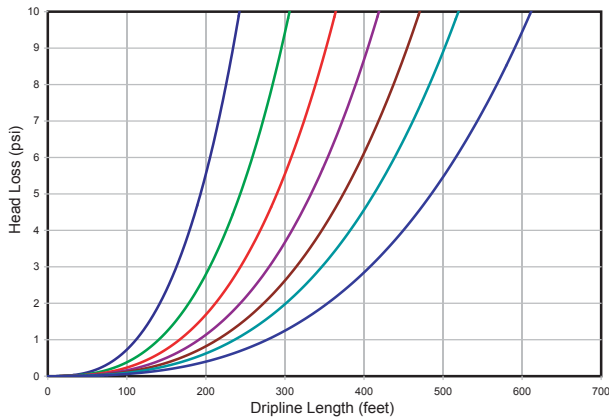
Head Loss v. Dripline Length and Emitter Spacing
Drip In 16mm .53 GPH Emitter 0% Slope.



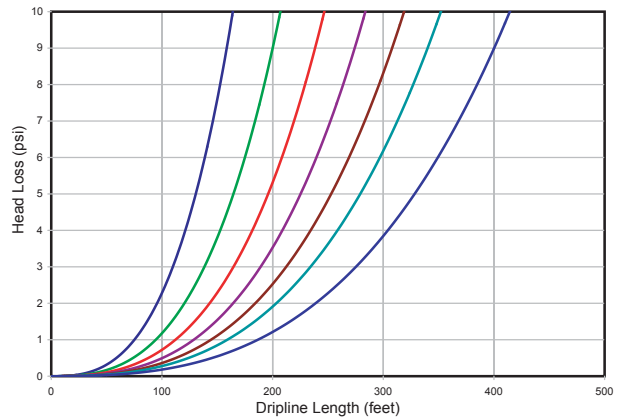
Head Loss v. Dripline Length and Emitter Spacing
Drip In 16mm .75 GPH Emitter 0% Slope.



Head Loss v. Dripline Length and Emitter Spacing
Drip In 16mm 1.0 GPH Emitter 0% Slope.



Head Loss v. Dripline Length and Emitter Spacing
Drip In 16mm 1.8 GPH Emitter 0% Slope.



Flow Rate vs. Pressure								
Emitter Flow GPH @ 15 psi	Color of Emitter	Pressure (psi)						
		10	15	20	25	30	35	40
0.53	Black	0.43	0.53	0.62	0.69	0.76	0.82	0.88
0.75	Brown	0.61	0.75	0.87	0.97	1.06	1.15	1.22
1.00	Green	0.81	1.00	1.16	1.31	1.44	1.57	1.68
1.80	Blue	1.46	1.80	2.09	2.35	2.58	2.80	3.00

Color Coding of Emitter is as shown.

0.550" I.D./0.640" O.D./0.045" Wall		16mm Dripline Run Length							
Emitter Spacing		Maximum Run for a Flow Variation ±5%							
		0.53 gph		2.0 lph		0.75 gph		2.8 lph	
Inches	Centimeters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
18"	45	254	77	201	61	165	50	125	38
24"	60	317	97	254	77	205	62	150	46
30"	75	374	114	300	97	228	69	172	52
36"	90	428	130	345	105	270	82	205	62
42"	105	478	146	392	119	300	91	225	69
48"	125	526	160	428	130	330	101	250	76
60"	150	616	188	474	144	385	117	290	88

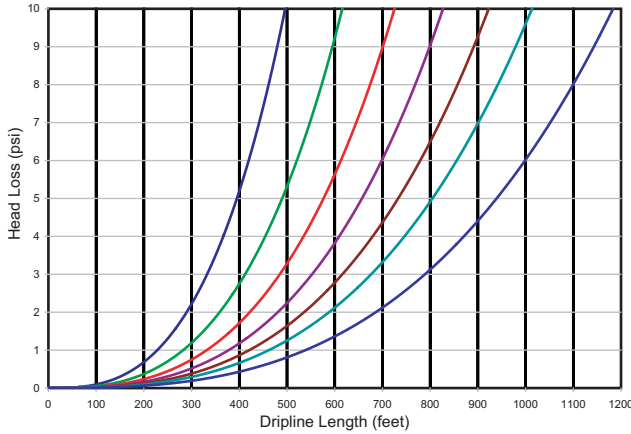
Maximum length of run based on EU and minimum pressures – please contact Toro for length of run based on other criteria such as flushing velocity.

Drip In® Classic

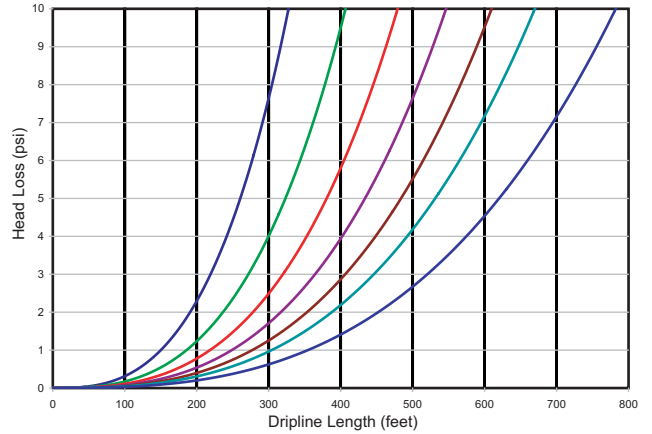
Spacings: — 18" — 24" — 30" — 36" — 42" — 48" — 60"

0.620 (18MM) DRIP IN CLASSIC DRIPLINE

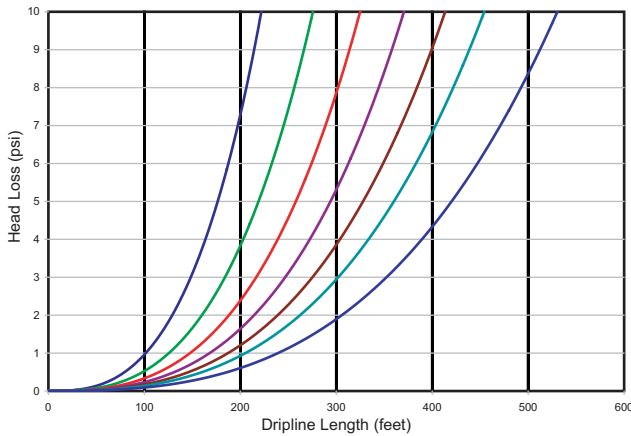
Head Loss v. Dripline Length and Emitter Spacing
Drip In 18mm .53 GPH Emitter 0% Slope.



Head Loss v. Dripline Length and Emitter Spacing
Drip In 18mm 1.0 GPH Emitter 0% Slope.



Head Loss v. Dripline Length and Emitter Spacing
Drip In 18mm 1.8 GPH Emitter 0% Slope.



Flow Rate vs. Pressure								
Emitter Flow GPH @ 15 psi	Color of Emitter	Pressure (psi)						
		10	15	20	25	30	35	40
0.53	Black	0.43	0.53	0.62	0.69	0.76	0.82	0.88
1.00	Green	0.81	1.00	1.16	1.31	1.44	1.57	1.68
1.80	Blue	1.46	1.80	2.09	2.35	2.58	2.80	3.00

Color Coding of Emitter is as shown.

0.620" I.D./0.710" O.D./0.045" Wall		18mm Dripline Run Length					
Emitter Spacing		Maximum Run for a Flow Variation ±5%					
		0.53 gph	2.0 lph	1.0gph.	3.78 lph	1.80 gph	6.81 lph
Inches	Centimeters	Feet	Meters	Feet	Meters	Feet	Meters
18"	45	330	101	225	69	151	46
24"	60	410	125	282	86	186	57
30"	75	460	140	322	98	217	66
36"	90	545	166	369	112	250	76
42"	105	620	189	410	125	276	84
48"	125	670	204	452	138	304	93
60"	150	775	236	524	160	355	108

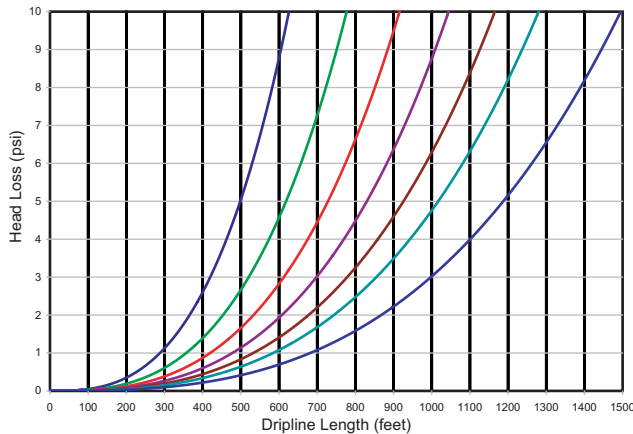
Maximum length of run based on EU and minimum pressures – please contact Toro for length of run based on other criteria such as flushing velocity.

Drip In® Classic

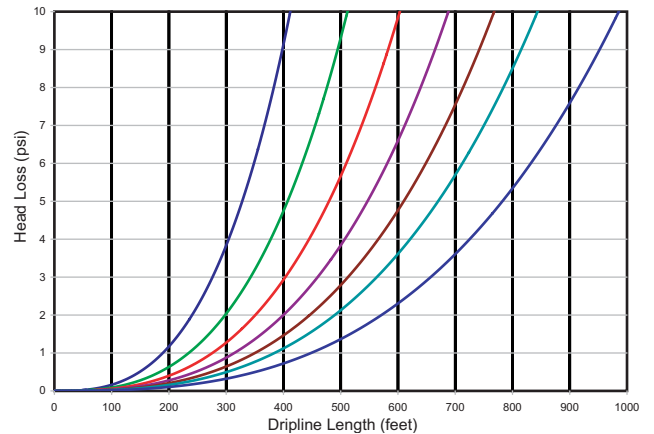
Spacings: — 18" — 24" — 30" — 36" — 42" — 48" — 60"

0.710 (20MM) DRIP IN CLASSIC DRIPLINE

Head Loss v. Dripline Length and Emitter Spacing
Drip In 20mm .53 GPH Emitter 0% Slope.



Head Loss v. Dripline Length and Emitter Spacing
Drip In 20mm 1.0 GPH Emitter 0% Slope.



Flow Rate vs. Pressure								
Emitter Flow GPH @ 15 psi	Color of Emitter	Pressure (psi)						
		10	15	20	25	30	35	40
0.53	Brown	0.43	0.53	0.61	0.68	0.75	0.81	0.87
1.00	Green	0.81	1.00	1.16	1.31	1.44	1.57	1.68

Color Coding of Emitter is as shown.

0.710" I.D./0.805" O.D./0.045" Wall		20mm Dripline Run Length			
Emitter Spacing		Maximum Run for a Flow Variation ±5%			
		0.53 gph	2.0 lph	1.0 gph	3.78 lph
Inches	Centimeters	Feet	Meters	Feet	Meters
18"	45	395	120	271	83
24"	60	493	150	338	103
30"	75	582	177	397	121
36"	90	666	203	453	138
42"	105	744	227	507	155
48"	125	820	250	556	169
60"	150	958	292	170	170

Maximum length of run based on EU and minimum pressures – please contact Toro for length of run based on other criteria such as flushing velocity.

Other Drip In® Products

DripIn® Clipperline®

Drip In dripline comes factory-installed

- Dramatically reduces labor and installation time in the field.
- Unique engineering plastics provide unparalleled strength on the wire.
- Superior control of water placement by directing water droplet to the plant.
- Low profile for mechanical harvesting.
- Works with 14 gauge wire.

With Clipperline, we do the work in the factory to save you time, labor and money in the field.

DripIn® with ROOTGUARD®

Drip In Dripline is also available with ROOTGUARD protection. ROOTGUARD technology combines Treflan® with the drip emitter to inhibit root growth. This is a patented technology where the herbicide is released at a uniform rate over a long period of time. It maintains a sufficient concentration in the soil immediately surrounding the drip emitter, to prevent root growth into the dripper.

DripIn® PC Dripline

Pressure compensating dripline for use in adverse topographical and operating conditions.

DripIn® Soaker Dripline 1/4" (6mm)

Classic (non-compensating) dripline for greenhouse, nurseries and other small applications.

