

P1TM



• LIGHT DRIPLINE

P1TM light dripline utilizes innovative technology that offers the following benefits to the grower:

- P1TM light dripline has no seam for more reliability and uniform installation.
- P1TM light dripline is manufactured using injection molded drippers for a high degree of plugging resistance and uniform water distribution over long run
- P1TM is available in both 5/8" and 7/8" diameters with wall thickness of 6, 7, 8, 10, 12, 15, 18, 24 and 35 mil.
- P1TM is available in six different flow rates to serve a wide variety of crops.
- P1TM is used in both above ground and subsurface installations with equal success.



Born from the integrated-extruded technology P1TM – light dripline shows advanced technical characteristics:

- The low profile drippers welded on the inside wall keeps friction loss to a minimum.
- Each dripper has an integrated inlet filter to prevent clogging.
- The turbulent flow path design is affective against clogging even at low pressures.
- All P1TM is resistant to UV Rays and mechanical stresses.
- Drip Emitter CV's are 2.5% or less.



DRIPPER CHARACTERISTICS

Nominal flow rate		Inlet filter		Recommended filtration requirement	Flow equation		Dripper color
GPH @ 8 Psi	GPH @ 10 Psi	Dripper Surface Area (Sq.In)	Inlet Filter Teeth Count		K	X	
0.16	0.17	0.252"	20	155 mesh	0.054	0.50	Green
0.22	0.25	0.228"	8	155 mesh	0.080	0.48	Pink
0.29	0.33	0.228"	8	155 mesh	0.099	0.52	Yellow
0.41	0.46	0.295"	8	120 mesh	0.139	0.52	Blue
0.55	0.61	0.295"	8	120 mesh	0.202	0.48	Tan
0.76	0.84	0.319"	8	120 mesh	0.278	0.48	Orange

*don't wait for rain*TM

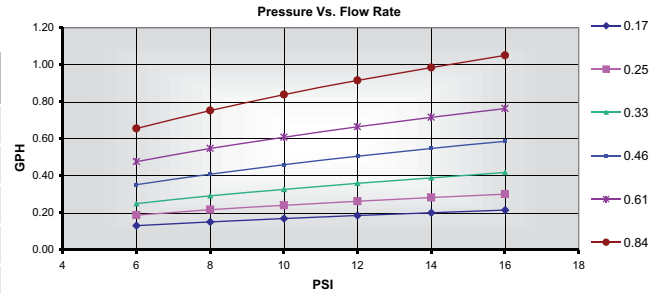
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Pressure-flow rate relationship

calculated on the average of 25 drippers

Nominal flow rate	Pressure (Psi)					
	6	8	10	12	14	16
GPH @ 10 Psi						
0.17	0.13	0.15	0.17	0.19	0.20	0.22
0.25	0.19	0.22	0.24	0.26	0.28	0.30
0.33	0.25	0.29	0.33	0.36	0.39	0.42
0.46	0.35	0.41	0.46	0.51	0.55	0.59
0.61	0.48	0.55	0.61	0.67	0.72	0.76
0.84	0.66	0.75	0.84	0.92	0.99	1.05



Nominal flow rate	GPM/100 Ft.	8"	12"	16"	18"	24"
0.16 GPH	Q/100 @ 8 Psi	0.41 GPM	0.27 GPM	0.20 GPM	0.18 GPM	0.13 GPM
0.17 GPH	Q/100 @ 10 Psi	0.43 GPM	0.29 GPM	0.22 GPM	0.19 GPM	0.14 GPM
0.22 GPH	Q/100 @ 8 Psi	0.56 GPM	0.37 GPM	0.28 GPM	0.25 GPM	0.19 GPM
0.25 GPH	Q/100 @ 10 Psi	0.64 GPM	0.42 GPM	0.32 GPM	0.28 GPM	0.21 GPM
0.29 GPH	Q/100 @ 8 Psi	0.74 GPM	0.49 GPM	0.37 GPM	0.33 GPM	0.24 GPM
0.33 GPH	Q/100 @ 10 Psi	0.84 GPM	0.56 GPM	0.42 GPM	0.37 GPM	0.28 GPM
0.41 GPH	Q/100 @ 8 Psi	1.04 GPM	0.69 GPM	0.52 GPM	0.46 GPM	0.35 GPM
0.46 GPH	Q/100 @ 10 Psi	1.17 GPM	0.78 GPM	0.58 GPM	0.52 GPM	0.39 GPM
0.55 GPH	Q/100 @ 8 Psi	1.40 GPM	0.93 GPM	0.70 GPM	0.62 GPM	0.46 GPM
0.61 GPH	Q/100 @ 10 Psi	1.55 GPM	1.03 GPM	0.77 GPM	0.69 GPM	0.51 GPM
0.76 GPH	Q/100 @ 8 Psi	1.93 GPM	1.29 GPM	0.97 GPM	0.86 GPM	0.64 GPM
0.84 GPH	Q/100 @ 10 Psi	2.13 GPM	1.42 GPM	1.07 GPM	0.95 GPM	0.71 GPM

PACKAGING AND REEL LENGTH

Wall thickness mil	5/8"		7/8"		Reels per pallet	Reels per container		
	Reel Length (Ft.)					20'	40'	
	Dripper Spacing (In)							
6	8,200' 6"-7.8"	9,185' 8"-11.5"	9,840' 12" and greater	-	16/32	320	640	
7	7,545' 6"-7.8"	8,200' 8"-11.5"	8,855' 12" and greater	-	16/32	320	640	
8	6,560' 6"-7.8"	7,218' 8"-11.5"	8,200' 12" and greater	4,920' 6"-11.5"	5,905' 12" and greater	16/32	320	640
10	5,578' 6"-7.8"	5,905' 8"-11.5"	6,560' 12" and greater	4,265' 6"-11.5"	4,920' 12" and greater	16/32	320	640
12	4,265' and 6"-7.8"	4,920' 8"-11.5"	5,575' 12" and greater	3,935' 6"-11.5"	4,265' 12" and greater	16/32	320	640
15	3,609' 6"-7.8"	4,265' 8"-11.5"	4,590' 12" and greater	2,950' 6"-11.5"	3,609' 12" and greater	16/32	320	640
18	2,624' 6"-7.8"	3,280' 8"-11.5"	3,609' 12" and greater	2,624' 6"-11.5"	2,950' 12" and greater	16/32	320	640
24	1,968' 6"-7.8"	2,295' 8"-11.5"	2,624' 12" and greater	1,968' 6" and greater		16/32	320	640
35	-	1,968' 6" and greater	-	-		16/32	320	640

P1™ 5/8"

8 mil	characteristics	Inside Diameter	0.635"	P1™ 8 mil
		Nominal wall thickness	8 mil	
		Nominal flow rate	0.17 - 0.25 - 0.33 - 0.46 0.61 - 0.84	
		Max. working pressure	12 Psi	

P1™ ULTRA™ 7/8"

12 mil	characteristics	Inside Diameter	0.875"	P1™ ULTRA™ 12 mil
		Nominal wall thickness	12 mil	
		Nominal flow rate	0.17 - 0.25 - 0.33 - 0.46 0.61 - 0.84	
		Max. working pressure	13 Psi	

P1™ DISCRETE EMITTER DRIPLINE

RECOMMENDED RUN LENGTH (FEET) TO EMISSION UNIFORMITY (E.U.%)

Model	S (%)	E.U. (%)	8"	12"	16"	20"	24"	30"
5/8" 0.17 Gph	2	95	131	134	137	141	141	141
		90	380	433	469	492	508	524
		85	498	577	633	669	698	725
	0	95	305	397	485	547	616	708
		90	564	731	879	1010	1135	1309
		85	698	905	1089	1253	1407	1624
	-2	95	200	164	157	154	154	150
		90	695	862	1161	1368	1558	1853
		85	843	1056	1092	1204	1404	2116
5/8" 0.25 Gph	2	95	127	137	144	144	147	147
		90	344	403	446	475	495	518
		85	442	528	587	633	666	705
	0	95	255	331	397	456	511	590
		90	469	606	728	839	941	1086
		85	577	748	898	1036	1164	1341
	-2	95	360	206	177	170	167	164
		90	567	754	803	1049	1259	1483
		85	685	908	997	1072	1505	1765
5/8" 0.33 Gph	2	95	111	124	127	131	134	137
		90	288	344	383	413	436	462
		85	370	449	505	551	584	626
	0	95	203	262	318	364	410	472
		90	377	485	584	672	754	872
		85	465	603	725	833	938	1624
	-2	95	269	242	180	164	157	154
		90	439	590	731	862	990	1158
		85	534	715	882	1040	1187	1387
5/8" 0.46 Gph	2	95	104	118	127	131	134	137
		90	249	305	344	377	403	433
		85	318	390	446	492	528	574
	0	95	167	216	259	298	334	387
		90	305	397	475	547	616	711
		85	380	492	590	679	764	879
	-2	95	213	285	203	318	183	170
		90	351	465	570	685	777	918
		85	429	567	695	826	938	1105

P1™ 5/8"
Working Pressure: 10 PSI
Spacing (In)
Run Length (Feet)

P1™
5/8"

E.U. = $100 (1 - 1.27CV / \text{Square Root}(n)) Q_{min} / Q_{med}$
S = Slope

CV = Coefficient of Variation
n = number of drippers for each plant
Q_{min} = mean Flow Rate (gph)
Q_{med} = medium Flow rate

For a better uniformity of delivery in each system point,
it is recommended to use E.U. values, higher than or equal to 90%.

**P1™ ULTRA™ DISCRETE EMITTER DRIFLINE
RECOMMENDED RUN LENGTH (FEET) TO EMISSION UNIFORMITY (E.U.%)**

Model	S (%)	E.U. (%)	8"	12"	16"	20"	24"	30"
7/8" 0.17 Gph	2	95	141	141	141	141	141	144
		90	488	521	538	547	524	557
		85	662	721	751	780	780	790
	0	95	531	689	826	954	1072	1236
		90	984	1273	1528	1761	1978	2280
		85	1217	1578	1893	2185	2454	2828
	-2	95	154	150	150	150	150	150
		90	1335	2070	1092	830	771	738
		85	1594	1975	2385	2664	3021	1394
7/8" 0.25 Gph	2	95	144	147	150	150	150	150
		90	469	515	541	557	567	577
		85	626	698	744	771	787	807
	0	95	446	577	695	800	898	1036
		90	820	1063	1276	1473	1653	1902
		85	1013	1315	1578	1820	2044	2355
	-2	95	170	164	160	160	160	160
		90	882	1437	1775	2119	1289	879
		85	1105	1355	1640	2158	2621	2992
7/8" 0.33 Gph	2	95	131	134	137	137	137	141
		90	410	459	488	505	518	531
		85	544	620	669	698	721	744
	0	95	357	462	554	639	718	826
		90	659	853	1023	1181	1325	1528
		85	816	1056	1269	1463	1643	1869
	-2	95	167	154	150	150	147	147
		90	839	1122	1236	1919	1870	1200
		85	1013	1348	1509	1755	2116	2431
7/8" 0.46 Gph	2	95	131	137	141	141	144	144
		90	370	426	465	488	508	524
		85	485	567	623	662	692	725
	0	95	292	377	452	521	587	675
		90	538	695	836	964	1082	1246
		85	666	862	1036	1194	1341	1545
	-2	95	301	170	160	157	157	154
		90	669	895	1102	1292	1466	1742
		85	803	1076	1322	1545	1752	2017

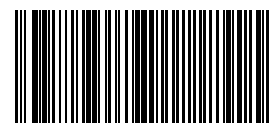
P1™ ULTRA™ 7/8"
Working Pressure: 10 PSI
Spacing (In)
Run Length (Feet)

P1™
Ultra™
7/8"

E.U. = 100 (1-1.27CV/Square RootN) Qmin/Qmed
S = Slope

don't wait for rain™

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