

# Hydro PCND

## Flow Regulated Drip Line



### Product Features

- Turbulent Flow Path
- Two Outlets Per Dripper
- Flow Regulation

### Applications

- Field Crops
- Orchards
- Greenhouses

### Product Options

- 12 mm - OD 0.47"/ ID 0.41":  
Wall thickness: 35, 40 mil
- 16 mm - OD 0.63"/ ID 0.54":  
Wall thickness: 35, 40, 45 mil
- 17 mm - OD 0.67"/ID 0.60":  
Wall thickness: 40, 45, 47 mil
- 20 mm - OD 0.79"/ID 0.69":  
Wall thickness: 45, 47 mil

### Operating Guidelines

- Operating pressure range: 12-50 psi
- 25 mil - 36 psi
- 35 mil - 43 psi
- 40-47 mil - 50 psi
- Sealing Pressure
- 12 mm- 1.7 psi
- 16, 17, 20 mm- 1.45 psi

Hydro PCND Drip Line contains flow-regulating cylindrical drippers. Hydro PCND has a highly responsive floating diaphragm which regulates and maintains a constant flow rate at variable inlet pressures. In addition to the flow regulation, Hydro PCND also has a no-drain feature. The water stops flowing through the drippers when the pressure drops to 1.45 PSI. The no-drain feature protects drip lines from sucking in small soil particles at system shut down. And with two outlets per dripper, Hydro PCND will continue to deliver the right amount of water, throughout the entire field.

Hydro PCND Drip line is the ideal choice for subsurface drip irrigation systems. Like the standard Hydro PC, it has a high clogging resistance due to the design and size of the dripper channel. And with the self-cleaning mechanism, the dripper continuously flushes the inlet filter in the drip line. Hydro PCND Drip line is constructed with premium resins resistant to UV degradation and damage caused from commonly used chemicals and fertilizers.

# Hydro PCND Flow Regulated Drip Line

## Hydro PCND 12 mm (0.48") - 0.28 gph Maximum Recommended Drip Line Length (feet) on Flat Terrain

Flow Rate (gph)	Dripper Spacing (inch)	Pipe Diameter 12 mm (0.48") Drip line inlet pressure (psi)		
		14.5	29	36
0.28	6	92	161	180
0.28	8	118	207	230
0.28	12	171	295	331
0.28	16	213	374	423
0.28	20	256	449	505
0.28	24	295	518	584
0.28	30	351	620	695
0.28	39	433	768	866



## Hydro PCND 16 mm (0.63"), 17 mm (0.67"), 20 mm (0.79") Maximum Recommended Drip Line Length (feet) on Flat Terrain

Flow Rate (gph)	Dripper Spacing (inch)	Pipe Diameter 16 mm (0.63")			Pipe Diameter 17 mm (0.67")			Pipe diameter 20 mm (0.79")		
		Drip Line Inlet Pressure (PSI)								
		14.5	29	43.5	14.5	29	43.5	14.5	29	43.5
0.36	8	200	305	367	246	381	456	276	482	590
0.36	12	282	433	522	344	535	646	384	676	830
0.36	16	354	551	663	436	676	814	482	850	1043
0.36	20	426	659	797	518	807	974	574	1010	1243
0.36	24	489	761	922	594	928	1119	656	1161	1430
0.36	31	610	951	1148	735	1148	1391	807	1437	1768
0.36	39	718	1122	1358	866	1352	1637	948	1686	2080
0.46*	8	141	249	302	190	331	403	233	407	499
0.46*	12	203	351	430	266	466	571	325	571	699
0.46*	16	256	446	548	335	587	722	407	718	882
0.46*	20	305	535	659	397	702	863	485	856	1053
0.46*	24	351	617	761	456	804	991	554	981	1207
0.46*	31	436	771	951	564	1001	1230	686	1214	1499
0.46*	39	515	912	1122	663	1178	1450	804	1427	1762
0.62	8	118	203	249	134	249	308	177	331	407
0.62	12	167	292	354	190	354	436	249	463	574
0.62	16	210	367	453	236	446	551	312	584	722
0.62	20	253	443	545	285	535	659	371	695	863
0.62	24	289	512	627	325	613	761	423	800	991
0.62	31	361	636	784	400	761	941	522	991	1227
0.62	39	426	754	928	472	896	1112	613	1165	1443
0.99**	8	85	151	184	98	184	226	144	253	312
0.99**	12	121	213	262	141	259	321	203	358	436
0.99**	16	154	272	335	177	328	407	256	449	551
0.99**	20	187	328	400	210	394	489	305	535	659
0.99**	24	213	377	466	239	453	561	348	617	758
0.99**	31	269	472	581	295	561	699	430	764	938
0.99**	39	315	558	686	351	663	823	505	899	1105

\* Flow rate for 17 mm (0.67"): 0.42 gph \*\* Flow rate for 20 mm (0.79"): 0.95 gph

