

Hydro PC

Flow Regulated Integral Drip Line



JOHN DEERE
WATER



Hydro PC is a drip line made with flow-regulating cylindrical drippers which allow growers to irrigate crops in a wide range of field conditions. Whether you're irrigating on a slope or as far as the eye can see, count on Hydro PC to deliver.

The Hydro PC drippers have sensitive floating diaphragms that regulate and maintain a constant flow rate at variable inlet pressures. Hydro PC is ideal for fields with sloping terrain or long run lengths. Because Hydro PC has a large cross-sectional labyrinth and self-cleaning mechanism, it's highly resistant to clogging. And with two outlets per dripper, Hydro PC will continue to deliver the right amount of water, throughout the entire field.

The Hydro PC is constructed with premium resins resistant to UV degradation and damage caused from commonly used chemicals and fertilizers.

Hydro PC - Specifications

Constant inside diameter (I.D.) regardless of drip line wall thickness.

12 mm - OD 0.47"/ ID 0.41":

Wall thickness: 25, 35, 40 mil (0.023, 0.035, .039 inch)

Flow rate: 0.28 gph

Operating pressure range: 12-43 PSI

16 mm - OD 0.63"/ ID 0.54":

Wall thickness: 35, 40, 45 mil (0.023, 0.035, 0.043 inch)

17 mm - OD 0.67"/ ID 0.60":

Wall thickness: 35, 40, 45, 47 mil (0.023, 0.035, 0.043, 0.047 inch)

20 mm - OD 0.79"/ ID 0.69":

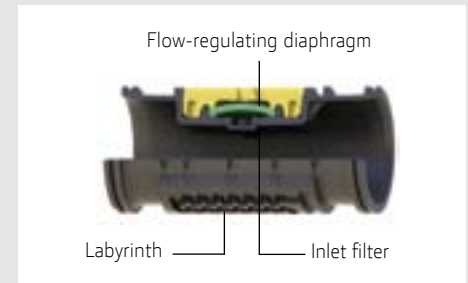
Wall thickness: 35, 40, 45, 47 mil (0.023, 0.035, 0.043, 0.047 inch)

Flow rates: 32, 42, 58, 95 gph

Operating pressure range: 12-50 PSI

Max. pressure according to wall thickness: 25 mil - 36 PSI; 35 mil - 43 PSI; 40-47 mil - 50 PSI

Applications: Crops on sloping terrain or where long run drip lines are required



Hydro PC 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 PC 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") Drip Line Inlet Pressure (PSI)			Pipe Diameter 17 mm (0.67") Drip Line Inlet Pressure (PSI)			Pipe Diameter 20 mm (0.79")		
		14.5	29.0	43.5	14.5	29.0	43.5	14.5	29.0	43.5
0.32	8	213	331	397	269	413	499	299	518	636
0.32	12	302	469	564	377	584	705	417	728	896
0.32	16	384	594	718	476	735	889	522	919	1128
0.32	20	459	712	859	564	879	1063	620	1092	1342
0.32	24	528	823	994	646	1010	1224	709	1253	1542
0.32	31	659	1023	1240	804	1253	1516	873	1548	1909
0.32	39	774	1210	1466	912	1473	1788	1023	1821	2244
0.42	8	151	262	321	190	331	403	246	430	528
0.42	12	213	374	456	266	466	571	344	604	741
0.42	16	269	472	581	335	587	722	433	761	935
0.42	20	325	568	699	397	702	863	515	905	1115
0.42	24	371	656	804	456	804	991	587	1040	1283
0.42	31	463	820	1004	564	1001	1230	725	1286	1588
0.42	39	545	964	1191	663	1178	1450	850	1512	1867
0.58	8	121	213	259	154	269	328	200	351	430
0.58	12	174	302	371	217	377	463	279	492	604
0.58	16	220	384	472	272	479	587	351	620	761
0.58	20	262	463	568	325	571	702	420	738	905
0.58	24	302	535	656	371	656	807	479	846	1043
0.58	31	374	666	820	459	814	1004	590	1050	1292
0.58	39	443	787	968	541	958	1181	692	1233	1519
0.95	8	89	154	187	112	194	236	144	253	312
0.95	12	125	220	269	157	272	335	203	358	436
0.95	16	161	279	341	197	348	426	256	449	551
0.95	20	190	335	410	236	413	508	305	535	659
0.95	24	220	387	476	269	476	587	348	617	758
0.95	31	272	482	597	335	594	728	430	764	938
0.95	39	321	571	705	394	699	859	505	899	1105

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