

Hydro PCND No-Drain Flow Regulated Integral Drip Line



Operating guidelines

Constant inside diameter regardless of drip line wall thickness.

12 mm - I.D. 10,4 mm;
Wall thickness: 35, 40 mil (0,9, 1,0 mm)
Flow rate: 1,05 lph
Sealing pressure: 0,12 bar

16 mm - I.D. 13,8 mm; Wall thickness:
35, 40, 45 mil (0,9, 1,0, 1,1 mm)
Flow rates: 1,35, 1,75, 2,35, 3,75 lph

17 mm - I.D. 15,3 mm; Wall thickness:
40, 45, 47 mil (1,0, 1,1, 1,19 mm)
Flow rates: 1,35, 1,60, 2,35, 3,75 lph

20 mm - I.D. 17,6 mm; Wall thickness:
45, 47 mil (1,1, 1,19 mm)
Flow rates: 1,35, 1,75, 2,35, 3,60 lph

Sealing pressure: 0,1 bar

Operating pressure range: 0,8-3,5 bar
Max. recommended operation pressure according to wall thickness:
35 mil - 3,0 bar
45-47 mil - 3,5 bar

Hydro PCND is a drip line containing flow-regulating cylindrical drippers. Hydro PCND has a sensitive 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 0,1 bar. 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.

The Hydro PCND 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.

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

Hydro PCND No-Drain Flow Regulated Integral Drip Line

Hydro PCND 12 mm - 1,05 lph

Maximum recommended drip line length (m) on flat terrain

Flow Rate (lph)	Dripper Spacing (cm)	Pipe Diameter 12 mm Drip Line Inlet Pressure (bar)		
		1,0	2,0	3,0
1,05	15	28	49	60
	20	36	63	77
	30	52	90	110
	40	65	114	140
	50	78	137	169
	60	90	158	195
	75	107	189	232
	100	132	234	289



Hydro PCND 16, 17, 20 mm - Maximum recommended drip line length (m) on flat terrain

Flow Rate (lph)	Dripper Spacing (cm)	Pipe diameter 16 mm			Pipe diameter 17 mm			Pipe diameter 20 mm		
		Drip line inlet pressure (bar)								
		1,0	2,0	3,0	1,0	2,0	3,0	1,0	2,0	3,0
1,35	20	60	92	111	75	116	140	83	146	179
	30	85	131	158	105	164	197	116	204	251
	40	107	167	201	133	207	250	146	258	317
	50	128	200	242	158	247	298	173	306	377
	60	148	230	279	181	283	343	197	352	433
	75	176	275	332	214	335	407	233	415	512
	100	217	340	412	263	414	502	286	511	631
1,75*	20	43	75	92	57	100	122	70	123	151
	30	61	106	131	80	141	173	98	173	212
	40	77	136	166	100	178	219	123	217	267
	50	92	162	200	120	212	261	146	259	319
	60	106	187	230	137	244	301	167	298	367
	75	125	223	274	162	288	356	197	351	433
	100	155	276	340	200	357	440	242	432	534
2,35	20	35	62	76	44	78	95	58	101	124
	30	50	88	108	62	109	134	81	143	175
	40	63	112	137	78	138	170	102	180	221
	50	76	134	165	94	166	204	121	214	263
	60	87	155	190	107	190	235	138	245	302
	75	104	184	227	127	225	278	163	290	358
	100	128	228	281	156	278	343	201	358	442
3,75**	20	26	45	56	33	57	70	44	77	94
	30	37	65	79	46	81	99	61	108	132
	40	46	82	101	58	102	126	77	136	168
	50	56	99	122	69	122	150	92	162	200
	60	65	115	141	79	140	173	105	187	230
	75	77	136	167	93	167	205	124	221	272
	100	95	169	208	116	206	255	152	272	335

* Flow rate for 17 mm: 1,60 lph ** Flow rate for 20 mm: 3,60 lph