

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.

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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	2,5
1,05	15	28	49	55
1,05	20	36	63	70
1,05	30	52	90	101
1,05	40	65	114	129
1,05	50	78	137	154
1,05	60	90	158	178
1,05	75	107	189	212
1,05	100	132	234	264



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	61	93	112	75	116	139	84	147	180
1,35	30	86	132	159	105	163	197	117	206	253
1,35	40	108	168	202	133	206	248	147	259	318
1,35	50	130	201	243	158	246	297	175	308	379
1,35	60	149	232	281	181	283	341	200	354	436
1,35	80	186	290	350	224	350	424	246	438	539
1,35	100	219	342	414	264	412	499	289	514	634
1,75*	20	43	76	92	58	101	123	71	124	152
1,75*	30	62	107	131	81	142	174	99	174	213
1,75*	40	78	136	167	102	179	220	124	219	269
1,75*	50	93	163	201	121	214	263	148	261	321
1,75*	60	107	188	232	139	245	302	169	299	368
1,75*	80	133	235	290	172	305	375	209	370	457
1,75*	100	157	278	342	202	359	442	245	435	537
2,35	20	36	62	76	41	76	94	54	101	124
2,35	30	51	89	108	58	108	133	76	141	175
2,35	40	64	112	138	72	136	168	95	178	220
2,35	50	77	135	166	87	163	201	113	212	263
2,35	60	88	156	191	99	187	232	129	244	302
2,35	80	110	194	239	122	232	287	159	302	374
2,35	100	130	230	283	144	273	339	187	355	440
3,75**	20	26	46	56	30	56	69	44	77	95
3,75**	30	37	65	80	43	79	98	62	109	133
3,75**	40	47	83	102	54	100	124	78	137	168
3,75**	50	57	100	122	64	120	149	93	163	201
3,75**	60	65	115	142	73	138	171	106	188	231
3,75**	80	82	144	177	90	171	213	131	233	286
3,75**	100	96	170	209	107	202	251	154	274	337

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