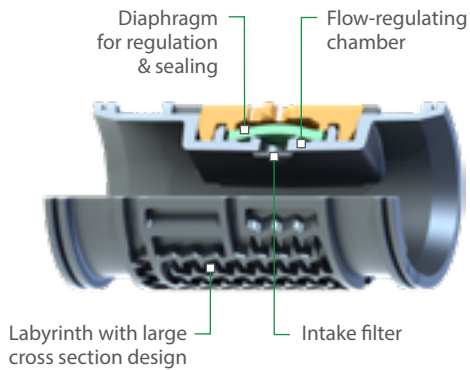


HYDRO PCND

Reliability and Dependability



Dual outlets (top and bottom) for built-in redundancy and maximum plugging protection

Available Configurations

Flow Rates (gph) 14.5 psi	16 mm: 0.36, 0.46, 0.62, 0.99 17 mm: 0.36, 0.42, 0.62, 0.99 18 mm: 0.36, 0.42, 0.62, 0.99 20 mm: 0.32, 0.46, 0.62, 0.95
Nominal Diameter (mm)	16, 17, 18, 20
Wall Thickness (mil)	16 mm: 35, 45 17 mm: 45 18 mm: 45 20 mm: 47
Standard Features	Non-Drain, Two Outlets
Optional Features	White hose, Pre-installed clips, Extra large lengths

Grower Benefits

- Improved overall system uniformity due to the No-Drain Dripper
- Dual outlets mean it doesn't matter what direction you lay the tube, making installation easier
- Choice of black or white tube

Advantages

- Large surface area of the cylindrical emitter allows a larger turbulent flow path, providing greater protection against plugging
- Highly responsive floating diaphragm regulates and maintains a constant flow rate at variable inlet pressures
- The no-drain feature prevents water from emitting when pressure drops below 1.45 psi, protecting drip line from soil ingestion and allowing pulse irrigation
- Dual outlets maintain proper flow rate even if one outlet becomes clogged, giving you peace of mind
- Self-cleaning mechanism continuously flushes the diaphragm to remove stuck particles and reduce plugging
- Constructed with premium resins resistant to UV and damage caused from commonly used chemicals and fertilizers
- Available in white tubing: absorbs less radiation, lowers water temperature inside the hose, and is ideal for greenhouses where it provides additional reflective surfaces

Applications

- Ideal for pulse irrigation and greenhouses
- On surface or sub-subsurface and highly undulating terrain

Packaging Data: Approx. Roll Weights (lbs.)			
Nominal Diameter	Wall Thickness		
	35 mil	45 mil	47 mil
mm			
16mm	30	37	
17mm		40	
18mm		41	
20mm			43

Configuration Details				
Nominal Diameter	Wall Thickness		Max. Op. Pres.	Roll Length
	in	mm		
16	35	0.543	44	1000
16	45	0.543	51	1000
17	45	0.602	51	1000
18	45	0.622	51	1000
20	47	0.693	51	1000

Filtration Requirements*		
Flow (gph)	Mesh	Micron
0.32 and below	150	100
0.42 and above	120	130

*Filtration requirement is dependent on a number of factors including water source and application. Please consult with an irrigation specialist for filtration requirements for your specific application.

Design Data					
Dia/mil	Nominal Flow	Internal Diameter	Emitter Constant (K)	Emitter Exponent (x)	kd
	gph	inch	psi		
16mm 35/45mil	0.36	0.543	0.36	0	0.85
	0.46	0.543	0.46	0	0.85
	0.62	0.543	0.62	0	0.85
	0.99	0.543	0.99	0	0.85
17mm 45mil	0.36	0.602	0.36	0	0.60
	0.42	0.602	0.42	0	0.60
	0.62	0.602	0.62	0	0.60
	0.99	0.602	0.99	0	0.60
18mm 45 mil	0.36	0.622	0.36	0	0.68
	0.42	0.622	0.42	0	0.68
	0.62	0.622	0.62	0	0.68
	0.99	0.622	0.99	0	0.68
20mm 47 mil	0.32	0.693	0.32	0	0.45
	0.46	0.693	0.46	0	0.45
	0.62	0.693	0.62	0	0.45
	0.95	0.693	0.95	0	0.45



Maximum Run Lengths (ft): 0% Slope x Spacing Between Emitters*

Nominal Diameter	Wall Thickness		ID	OD	Nom. Flow 14.5 psi	Max. Op. Pres	Roll Length	8	12	16	20	24	30	36
	mil	in						in	in	gph	psi	ft	ft	ft
16	35	0.89	0.543	0.613	0.36	44	1000	380	541	689	827	954	1138	1302
					0.46			321	456	581	699	807	961	1102
					0.62			266	377	479	577	666	794	909
					0.99			194	276	354	426	492	587	672
16	45	1.02	0.543	0.623	0.36	51	1000	380	541	689	827	954	1138	1302
					0.46			321	456	581	699	807	961	1102
					0.62			266	377	479	577	666	794	909
					0.99			194	276	354	426	492	587	672
17	45	1.02	0.602	0.692	0.36	51	1000	479	676	853	1020	1174	1391	1591
					0.42			426	604	764	912	1050	1246	1427
					0.62			331	469	597	712	820	971	1112
					0.99			246	348	443	528	610	722	830
18	45	1.14	0.622	0.712	0.36	51	1000	489	695	882	1056	1217	1446	1660
					0.42			449	636	810	971	1118	1328	1525
					0.62			341	482	613	735	850	1010	1161
					0.99			249	358	453	544	626	748	859
20	47	1.19	0.693	0.787	0.36	51	1000	623	879	1109	1319	1515	1794	2050
					0.46			525	741	935	1115	1282	1515	1732
					0.62			433	613	774	922	1059	1253	1433
					0.95			328	462	587	699	804	951	1089

* Approximate run lengths for single laterals only. Please consult a design professional for total system uniformity.





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