

An aerial photograph of a vineyard with rows of green grapevines. A black drip irrigation line runs parallel to the rows, with small emitters visible. The ground between the rows is dry and sandy. A semi-transparent green banner is overlaid across the middle of the image, containing the product name.

Cyclone PC Line

Flat Pressure
Compensating Dripline

Cyclone PC Line Specifications

Cyclone PC Line is produced with the highest quality raw material, in state-of-the-art production lines by integrating the most advanced laser welded emitter of the industry. Provides extreme tensile strength, since it is produced with high-quality resins. Offers excellent performance on the field due to the flawlessly designed, injected molded Cyclone PC emitter with very low CV. The unique design of Cyclone PC emitter, provides high clogging resistance and offers the highest emission uniformity. The combination of those elements translates to superior quality, evenly grown crops and increased overall yield which leads to higher income for every farmer worldwide.

Laser Welding Technology

Cyclone PC emitter is welded using state of the art laser technology. The particular emitter assembly procedure, ensures flawless operation of the dripline under any condition. Moreover, this advanced welding method prevents leaks in the event of extremely high pressure or the opening of the emitter during installation and retraction of the dripline in the field.

Drain (D), Non-Drain (ND) and Anti-Siphon (AS) options

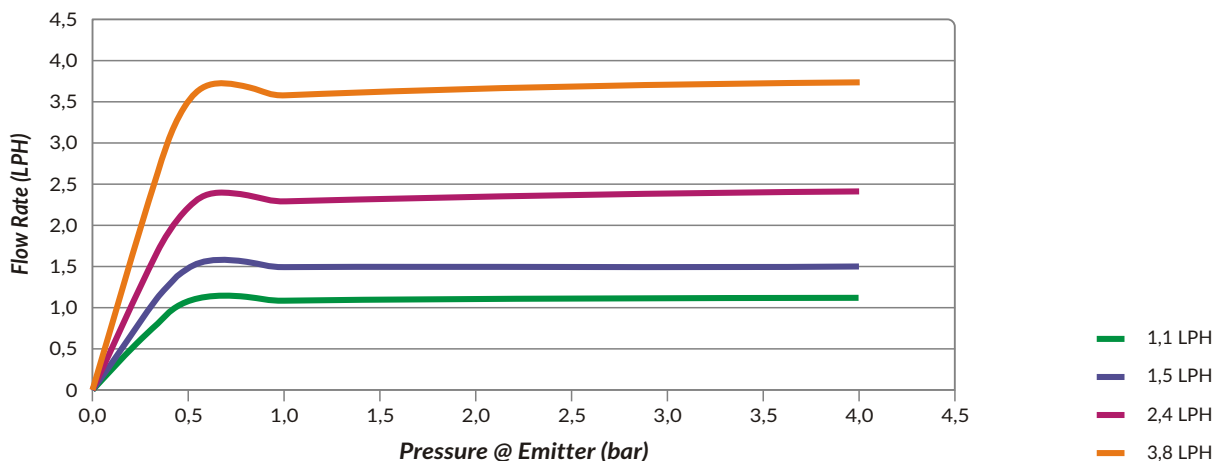
The anti-siphon (AS) system both in D and ND versions is a specially designed mechanism that prevents suction of dirt and impurities into the emitter. The AS feature enables Cyclone PC Line to be installed underground (SDI), perfectly maintaining its irrigation characteristics and its multiyear durability. With the Non-drain system, the dripline remains full of water during irrigation intervals, ensuring immediate and uniform irrigation along the dripline. Moreover, Non-Drain emitters eliminate drainage and refill effect, and improve efficiency in pulse irrigation. In order to achieve the Non-Drain function, the emitter opens at 0,40 bar and closes at 0,25 bar.



Cyclone PC Emitter Specifications

Nominal Flow Rate (lph)	Constant (k)	Exponent (x)	Coefficient of Variation CV (%)	Water Passage Width x Depth x Length (mm)	Filtration Area (mm ²)	Recommended Filtration (mesh/micron)
1,1	1,1	0,02	3,6	0,82 x 0,82 x 139	37,37	150/100
1,5	1,6	0,00	3,6	1,06 x 0,85 x 132	37,37	120/130
2,4	2,3	0,04	3,5	1,19 x 0,90 x 89,6	37,37	120/130
3,8	3,6	0,03	3,5	1,30 x 0,90 x 78,7	37,37	120/130

Cyclone PC Emitter Flow Curves



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Ideal Applications

- Precision irrigation
- Uneven terrain
- Greenhouses
- Orchards
- Multiple pulse irrigation
- Suitable for both on surface and subsurface installations

Cyclone PC Line Specifications												
Nominal Diameter (mm)	Internal Diameter (mm)	Wall Thickness (mil)	Max. Operating Pressure (bar)	Coil Length According to Emitter Spacing (m)	Flow Rate (lph)	Maximum Recommended Length (m) at 2 bar for the Following Emitter Spacing						
						15cm	20cm	30cm	50cm	75cm	100cm	120cm
16	16,1	15	2,1	850 (20 cm)	1,1	132	169	234	347	467	574	652
				900 (25 cm)	1,5	103	131	182	270	364	447	508
				950 (30 cm)	2,4	82	104	145	215	290	356	404
					3,8	61	77	108	160	215	265	301
		18	2,3	750 (20 cm) 800 (30 cm)	1,1	132	169	234	347	467	574	652
					1,5	103	131	182	270	364	447	508
					2,4	82	104	145	215	290	356	404
					3,8	61	77	108	160	215	265	301
		25	2,5	650 (20 cm) 650 (25 cm) 700 (30 cm)	1,1	146	186	258	383	516	634	720
					1,5	113	144	201	298	402	494	562
					2,4	90	115	160	237	320	393	448
					3,8	67	85	118	177	238	293	332
		35	3,0	400 (30 cm)	1,1	157	200	278	413	557	684	778
					1,5	122	156	217	322	434	534	607
					2,4	97	124	172	256	345	424	482
					3,8	72	92	128	191	257	316	359
22	22,2	18	1,8	500 (30 cm)	1,1	240	300	408	590	784	954	1080
					1,5	186	233	317	460	610	744	841
					2,4	148	186	253	367	487	594	672
					3,8	110	139	188	273	363	442	501
		25	2,0	400 (30 cm)	1,1	256	320	436	631	839	1021	1156
					1,5	199	249	339	492	653	796	901
					2,4	158	199	270	392	521	635	719
					3,8	118	148	201	292	388	473	535

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Product Characteristics

Available in 16 and 22mm diameter, from 15mil up to 35mil wall thickness that enables both surface and subsurface installations for multi-seasonal use, depending on wall thickness

Wide range of flow rates 1,1 / 1,5 / 2,4 and 3,8 lph for a wide range of irrigation needs

Pressure compensating (PC) emitters incorporate a silicone membrane which enables the delivery of precise and equal amounts of water over a broad pressure range

Available in Drain (D), Non-Drain (ND) and Anti Siphon (AS) options for every possible installation both on surface and subsurface

Excellent Coefficient of Variation, lower than similar products due to the excellent emitter design and their production on state-of-the-art injection machines

Advanced water inlet design, increases filtering area and prevents particle insertion in the emitter, thus enhancing the anticlogging performance

Specially designed labyrinth creates high turbulent flow, therefore preventing clogging of the emitter

Emitters are tested from both CIT and Irstea institutes and achieved the highest ranking for CV, emission uniformity, flow accuracy and clogging resistance



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