



Nano Line



Flat Dripline

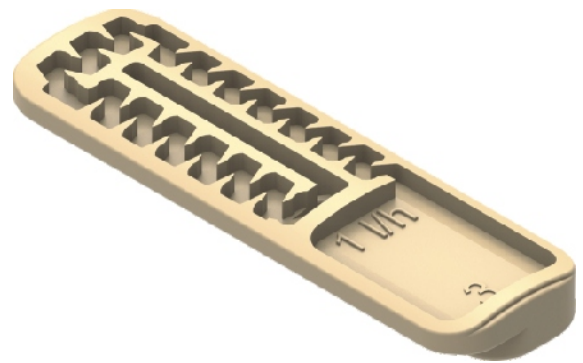
Nano Line Specifications

Nano Line is produced with the highest quality raw material, in state-of-the-art production lines by integrating the most advanced ultracompact 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 Nano emitter with very low CV. The unique design of Nano 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.

Compact dimensions and low weight

Nano Line is the combination of the most affordable and advanced approach for the end user due to the small weight and dimensions of the emitter.

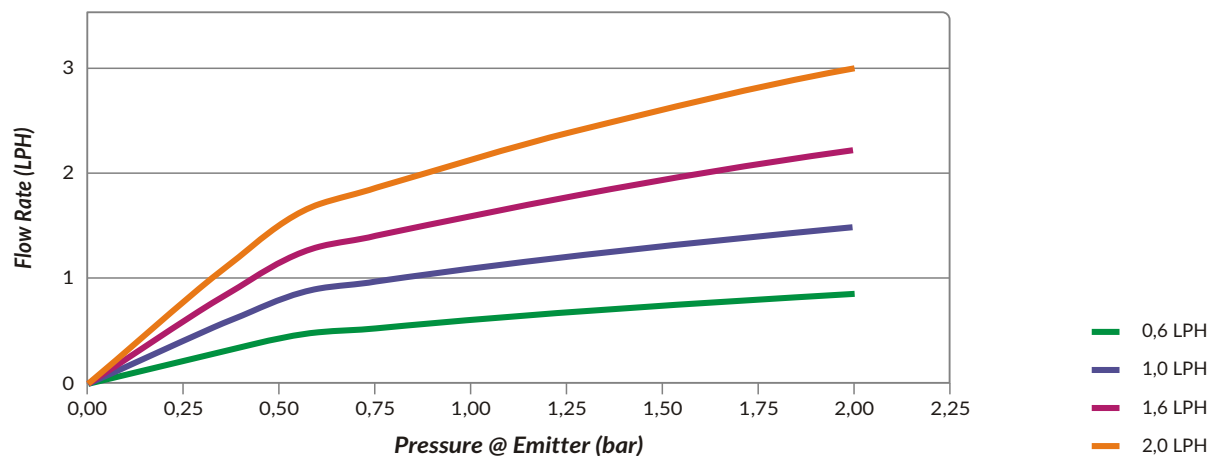
The small dimensions of Nano emitter along with its curved side design provide a very low kd factor. This leads to extremely low friction losses inside Nano Line dripline and therefore industry leading lateral lengths.



Nano Emitter Specifications

Nominal Flow Rate (lph @ 1bar)	Constant (k)	Exponent (x)	Coefficient of Variation CV (%)	Water Passage Width x Depth x Length (mm)	Filtration Area (mm ²)	Recommended Filtration (mesh/micron)
0,60	0,64	0,43	1,90	0,51 x 0,46 x 44,2	28,2	150/100
1,00	1,09	0,45	1,15	0,59 x 0,60 x 41,9	28,2	120/130
1,60	1,60	0,47	1,80	0,69 x 0,65 x 40,0	28,2	120/130
2,00	2,13	0,49	1,50	0,80 x 0,65 x 38,2	28,2	120/130

Nano Emitter Flow Curves



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Ideal Applications

Maize

Cotton

Tomatoes

Peppers

Melons

Suitable for both on surface and shallow subsurface installations

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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) in Flat Terrain at 10% Flow Variation for the Following Emitter Spacing						
						15cm	20cm	25cm	30cm	33cm	40cm	50cm
16	16,1	6	1,0	2700 (15 cm)	0,6	132	161	188	212	226	257	299
				2800 (20 cm)	1,0	88	108	126	142	151	172	200
				2900 (25 cm)	1,6	68	83	97	109	116	132	154
				3000 (30 cm)	2,0	56	68	79	89	95	108	126
		8	1,2	2600 (15 cm)	0,6	134	163	190	215	229	261	303
				2700 (20 cm)	1,0	89	109	127	143	153	174	202
				2800 (25 cm)	1,6	68	83	97	110	117	134	155
				2900 (30 cm)	2,0	56	68	80	90	96	109	127
		10	1,4	2200 (15 cm)	0,6	135	165	192	217	232	264	306
				2300 (20 cm)	1,0	90	110	128	145	154	176	204
				2400 (25 cm)	1,6	69	84	98	111	118	134	156
				2500 (30 cm)	2,0	56	69	80	90	96	110	127
		12	1,5	1700 (15 cm)	0,6	136	166	193	218	233	265	307
				1800 (20 cm)	1,0	90	110	129	145	155	176	205
				1900 (25 cm)	1,6	69	84	98	111	118	135	157
				2000 (30 cm)	2,0	56	69	80	91	96	110	128
22	22,2	8	1,0	1900 (15 cm)	0,6	232	282	327	370	394	448	519
				2000 (20 cm)	1,0	155	188	219	248	264	300	348
				2100 (25 cm)	1,6	119	145	168	190	203	230	267
				2100 (30 cm)	2,0	98	119	138	156	166	189	219
		10	1,3	1300 (15 cm)	0,6	236	287	334	377	402	456	529
				1400 (20 cm)	1,0	157	191	222	251	268	304	353
				1500 (25 cm)	1,6	120	146	170	192	205	233	270
				1600 (30 cm)	2,0	98	120	139	157	168	190	221

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Product Characteristics

Available in 16 and 22mm diameter, from 6mil up to 12mil wall thickness that enables surface and shallow subsurface installations for single or bi-seasonal use depending on wall thickness

Wide range of flow rates 0,6 / 1,0 / 1,6 and 2,0 lph for a wide range of irrigation needs

Very low friction factor (kd) provided by the curved design and the ultracompact dimensions of the emitter

Excellent Coefficient of Variation, lower than similar products and far superior compared to tape, due to the long length of the excellently designed labyrinth

Advanced Three-Dimensional water inlet increases filtering area, prevents particle insertion in the emitter, thus enhancing the anticlogging performance

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

Cost efficient, due to emitter ultracompact design and low weight

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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