



**ADRITEC**  
YOUR WAY

# 1 MICRO IRRIGATION



# Micro Irrigation On Line Emitters & Bubblers



1c1- Naya ADJ

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1c2- Nein ETF

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1c3- Nein EPC

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1c4- Eden NDC

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1c5- Petra BCD

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1c6- Gaza Bubbler

Naya is a variable flow emitter with a flow rate from zero to 60 LPH at 1 bar nominal pressure. Its flow is adjusted by clicking the top cover which has 6 to 32 clicks. It gives a 360 degree flow pattern. Its inlet is 5mm. Naya is suitable for a wide variety of landscape and nursery applications, easy to install with a removable cap for inspection and cleaning.

Code Pressure	Flow Rate ( LPH )					Emitter's	
	0.5 Bar	0.8	1.0 Bar	1.5 Bar	2.0 Bar	X	kd
1C1OLADJ0060	41.0	51.3	56.6	66.8	76.0	0.44	56.60

① 31 - 32 Clicks.

Average Flow Rate ( LPH ) vs. Number Of Clicks							
Code	Number Of Clicks						
	2	4	6	8	10	12	16
1C1OLADJ0060	6	12	14	16	21	27	35

Average Flow Rate ( LPH ) vs. Number Of Clicks							
Code	Number Of Clicks						
	18	20	22	24	26	28	32
1C1OLADJ0060	39	43	46	49	52	56	60

Operating Pressure 1 Bar.



Max. Lateral Running Length ( m )									
Code Pressure	Emitters Spacing ( m )								
	0.50	0.75	1.0	1.25	1.5	1.75	2.0	2.25	2.50
1C1OLADJ0060	12	16	19	22	25	27	30	32	34

- ① Inlet Pressure 1.24 Bar.
- ② Zero Slope.
- ③ Emitters Mounted On Pipe OD=16 mm, ID= 13.6 mm.
- ④ At Emitter Operating Pressure 1 Bar.
- ⑤ Number Of Clicks 31 - 32
- ⑥ Flow Variation 10%

Max. Lateral Running Length ( m )									
Code Pressure	Emitters Spacing ( m )								
	0.50	0.75	1.0	1.25	1.5	1.75	2.0	2.25	2.50
1C1OLADJ0060	14	19	22	26	29	32	34	37	40

- ① Inlet Pressure 1.37 Bar.
- ② Zero Slope.
- ③ Flow Variation 15%

The Nein ETF drippers are on-line turbulent flow emitters with a removable top cap which allows easy inspection and cleaning. The turbulent flow emitters are produced in four models mainly 2.23 LPH, 4.21 LPH, 7.53 LPH, and 16.0 LPH at 1 bar. It is ideal for orchards, vienyards, and irrigation of fruit trees. The inlet OD is 5mm, suitable for installation with 4mm ID micro tubes.



Code	Average Flow Rate ( LPH )						Emitter's	
	0.5 Bar	0.8 Bar	1.0 Bar	1.5 Bar	2.0 Bar	2.5 Bar	X	Kd
1C2OLETF0002	1.55	1.99	2.23	2.64	3.12	3.55	0.50	2.21
1C2OLETF0004	2.84	3.71	4.21	5.27	6.12	6.98	0.56	4.19
1C2OLETF0008	5.16	6.71	7.53	9.32	10.93	12.24	0.55	7.53
1C2OLETF0016	10.7	14.06	15.99	19.79	22.95	25.13	0.53	15.99

Recommended Operating Pressure 1.0 Bar.

Code	Max. Lateral Running Length ( m )								
	Emitters Spacing ( m )								
	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00
1C2OLETF0002	122	147	192	231	267	300	332	362	418
1C2OLETF0004	78	94	122	147	170	191	211	230	265
1C2OLETF0008	54	65	84	101	117	131	145	158	183
1C2OLETF0016	33	40	52	63	72	81	89	97	112

- ❶ Inlet Pressure 1.19 -1.2 Bar.
- ❷ Zero Slope.
- ❸ Emitters Mounted On Pipe OD=16 mm, ID= 13.6 mm.
- ❹ At Emitter Operating Pressure 1 Bar.
- ❺ Flow Variation 10%.

Code	Max. Lateral Running Length ( m )								
	Emitters Spacing ( m )								
	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00
1C2OLETF0002	142	171	223	268	310	349	386	421	486
1C2OLETF0004	90	109	142	171	197	222	245	267	308
1C2OLETF0008	62	75	98	118	136	153	169	184	212
1C2OLETF0016	39	47	60	73	84	94	104	113	131

- ❶ Inlet Pressure 1.28 -1.32 Bar.
- ❷ Zero Slope.
- ❸ Flow Variation 15%.



The Eden PC No-drain emitter is a pressure compensating no drain emitter with a silicone rubber diaphragm and a built in wide turbulent flow labyrinth. The No-drain self-flushing feature with an opening pressure of 0.5 bar and a shut off pressure of 0.15 bar prevents drainage from the system allowing quick system start up and shut off. It is produced in three models with flow rates of 2.07 LPH, 3.62 LPH, and 7.76 LPH at 1 bar pressure. The Eden drippers have a 5mm barbed nipple at its inlet and outlet making it easy for mounting on a 4mm micro tube in addition to a 2 or 4 distributor outlet connection with different types of stakes depending on the application required. Ideal for irrigating fruit trees, orchards, and hydroponic systems.



Code	Average Flow Rate ( LPH )							Emitter's	
	1.0 Bar	1.5 Bar	2.0 Bar	2.5 Bar	3.0 Bar	3.5 Bar	4.0 Bar	X	Kd
1C4OLNDPC002	2.07	2.35	2.51	2.59	2.65	2.63	2.58	0.165	2.20
1C4OLNDPC004	3.62	4.16	4.41	4.54	4.53	4.48	4.35	0.135	3.89
1C4OLNDPC008	7.76	9.01	9.52	9.46	9.05	8.55	7.92	0.018	8.45

Recommended Operating Pressure Range 1.5 - 4 Bars.  
Opening Pressure 0.4 Bar.  
Closing Pressure 0.15 Bar.



Code	Max. Lateral Running Length ( m )								
	Emitters Spacing ( m )								
	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00
1C4OLNDPC002	161	194	252	304	351	395	437	476	550
1C4OLNDPC004	111	134	174	209	242	272	301	328	379
1C4OLNDPC008	67	81	105	127	146	164	182	198	229

- ❶ Inlet Pressure 2.0 Bars.
- ❷ Zero Slope.
- ❸ Emitters Mounted On Pipe OD=16 mm, ID= 13.6 mm.
- ❹ At Emitter Operating Pressure 1.5 Bars.

Petra PCD is a long flow path emitter with a single barded outlet. It has a hook which allows easy attachment to the irrigation pipe. The removable male part allows easy inspection and cleaning. It is produced with a nominal discharge rate of 8 LPH @ 1 bar, and has a 6mm barbed inlet.



Code	Average Flow Rate ( LPH )					Emitter's	
	0.5 Bar	1.0 Bar	1.5 Bar	2.0 Bar	2.5 Bar	X	Kd
1C5OLPEPCD08	4.3	8.0	11.4	14.6	17.6	0.88	7.99

Recommended Operating Pressure 1.0 Bar.

Code	Max. Lateral Running Length ( m )								
	Emitters Spacing ( m )								
	0.50	0.75	1.0	1.25	1.5	1.75	2.0	2.25	2.50
1C5OLPEPCD08	33	43	52	60	68	75	81	88	94

- ❶ Inlet Pressure 1.11 Bar.
- ❷ Zero Slope.
- ❸ Emitters Mounted On Pipe OD=16 mm, ID= 13.6 mm.
- ❹ At Emitter Operating Pressure 1 Bar.
- ❺ Flow Variation 10%.

Code	Max. Lateral Running Length ( m )								
	Emitters Spacing ( m )								
	0.50	0.75	1.0	1.25	1.5	1.75	2.0	2.25	2.50
1C5OLPEPCD08	38	50	60	69	78	86	94	101	108

- ❶ Inlet Pressure 1.17 Bar.
- ❷ Zero Slope.
- ❸ Flow Variation 15%.

**Gaza Adjustable Flow Bubbler BUF**

The Adjustable Flow Bubbler, model BUF, incorporates a stainless steel non-corrosive flow regulating screw. Water comes out in the shape of an umbrella. The nominal flow is 1.5 GPM (340 lph). Made out of high quality ABS material.

Code	Average Flow Rate ( LPH )				
	Number	0.5 Bar	1.0 Bar	1.5 Bar	2.0 Bar
	Of / Turns				
1C6OLBUF0150	0	0	0	0	0
	8	227	283	327	415
	9	308	386	450	522
	12	360	438	519	596



- \* Zero Flow, when the bubbler's screw is fully screwed.
- \* 1.0 GPM Equal 227 LPH.
- \* Number of turns how is many times the Bubbler's screw is turned anti-clock wise.
- \* Recommended Operating Pressure 1.0 Bar.

**Gaza Bubbler BPC**

The Bubbler BPC is a pressure compensated bubbler that incorporates a high quality diaphragm to ensure pressure compensating flow characteristics between 1 - 3 bars. Water in the BPC bubbler trickles down the body itself for the low flow bubbler, and sprays out in a full circle umbrella shape with the high flow rate models. It is manufactured from a high quality ABS material.

Code	Average Flow Rate ( LPH )				
	1.0 Bar	1.5 Bar	2.0 Bar	2.5 Bar	3.0 Bar
1C6OLBPC0050	116	139	154	168	184
1C6OLBPC0051	234	275	300	304	307
1C6OLBPC0052	304	363	418	431	479



- \* Recommended Operating Pressure Range 2.0 - 3.5 Bars.
- \* 1.0 GPM Equal 227 LPH.

Code	Max. Lateral Running Length ( m )				
	Bubblers Spacing ( m )				
	0.75	1.00	1.50	2.00	2.50
1C6OLBPC0050	16	19	24	29	33
1C6OLBPC0051	10	12	16	19	21
1C6OLBPC0052	8	10	13	15	17

- 1 Inlet Pressure 2.5 Bars.
- 2 Zero Slope.
- 3 Bubblers Mounted On Pipe OD=20 mm, ID= 17.0 mm.
- 4 At Bubbler Operating Pressure 2.0 Bars.

**Bubbler Stake & Filter**

A specially designed stake (1C6OLSTK1238) is provided to suit both models of bubbler with an inlet diameter of 16mm and an outlet of 1/2" (Plain and MPT) and 3/8" (FPT). The filter supplied for both models is a 60 mesh filter (1C6OLFLT0060).