



PLASTIC-PUGLIA
Irrigation Systems since 1967 

value for
water



Aquadrop® NANO

DRIP TAPE WITH ULTRA-COMPACT FLAT DRIPPER

■ APPLICATIONS

• Field crops • Greenhouse crops • Horticulture • Floriculture

■ ADVANTAGES

Tape made from black polyethylene with a blue stripe to indicate the correct upward placement on the soil

High-performance turbulent flow labyrinth with large passage sections.

Surface or slightly buried installation

Reduced pressure losses and uniform delivery over long distances

High resistance to clogging, UV rays, fertilizers and chemicals used in agriculture

Product certified by IIP according to UNI EN ISO 9261:2010 standard

■ TECHNICAL CHARACTERISTICS

Nominal Diameter: 16/22 mm

Thickness: 6/7/8/10 mil (0,15/0,18/0,20/0,25 mm)

Available Nominal Flow Rates: (1,0 bar): 0,6/0,8/1,10/1,60/2,00 l/h

Spacing: 10÷100 cm

Inlet filters
protect the labyrinth



Wide labyrinth with self-cleaning turbulent
flow resistant to clogging



BLUE STRIPE REGISTERED TRADEMARK

CERTIFIED PRODUCT
 
UNI EN ISO 9261:2010

DIAMETER 16 mm (ø int. 16,1 mm) **TECHNICAL FEATURES**

*for a duration of about half an hour with open ends

Thickness	Max working pressure	Max washing pressure*	Coil length	Average coil weight
6 mil (0,15 mm)	0,80 bar	1,00 bar	3000 m	22,5 kg
8 mil (0,20 mm)	1,00 bar	1,20 bar	2500 m	25,0 kg
10 mil (0,25 mm)	1,20 bar	1,40 bar	2200 m	26,5 kg

■ **DIAMETER 22 mm** (ø int. 22,3 mm) **TECHNICAL FEATURES**

*for a duration of about half an hour with open ends

Thickness	Max working pressure	Max washing pressure*	Coil length	Average coil weight
7 mil (0,18 mm)	0,80 bar	1,00 bar	2100 m	25,4 kg
8 mil (0,20 mm)	0,90 bar	1,10 bar	1800 m	24,3 kg
10 mil (0,25 mm)	1,10 bar	1,30 bar	1500 m	24,4 kg

■ **PRESSURE-FLOW RATE RELATION** TESTS CARRIED OUT ON 10 MIL THICKNESS WITH WATER AT 20°C

Nominal flow rate l/h	Pressure bar						
	0,60	0,70	0,80	0,90	1,00	1,20	1,40
0,60	0,46	0,50	0,54	0,58	0,60	0,67	0,73
0,80	0,61	0,72	0,76	0,80	0,80	0,94	0,99
1,10	0,82	0,95	0,99	1,05	1,10	1,24	1,33
1,60	1,17	1,39	1,47	1,55	1,60	1,78	1,91
2,00	1,47	1,73	1,82	1,94	2,00	2,22	2,41

DRIPPER FEATURES

Nominal flow rate	Labyrinth dimensions		Inlet filtering area		Recommended filtration	Flow equation		CV
l/h	Depth mm	Width mm	no. of holes	area mm ²	mesh / micron	k	x	%
0,60	0,46	0,51	10	1,8	150 / 100	0,22	0,50	<3,00
0,80	0,52	0,55	10	2,7	150 / 100	0,30	0,50	<2,00
1,10	0,60	0,59	10	2,7	150 / 100	0,40	0,50	<2,00
1,60	0,65	0,69	10	1,8	120 / 130	0,55	0,50	<3,00
2,00	0,65	0,80	10	1,8	120 / 130	0,69	0,50	<3,00

■ **PACKAGING** PALLET HEIGHT: 13 cm

Diameter	Thickness	Reel size	Pallet size	Reels per pallet	Reels per container			
mm	mil	cm	cm	pz.	20 ft	40 ft	40 ft HC	Truck
16	6	ø 57,5 h 22,5	115 x 115 x 126 115 x 115 x 216 115 x 115 x 251	20 32+4 20+20	360 (32+4)	720 (32+4)	800 (20+20)	880 (20+20)
	8							
	10							
22	7	ø 57,5 h 22,5	115 x 115 x 126 115 x 115 x 216 115 x 115 x 251	20 32+4 20+20	360 (32+4)	720 (32+4)	800 (20+20)	880 (20+20)
	8							
	10							

Aquadrop®
NANO

Thickness
0,15 mm
6 mil

Diameter
16 mm

The most economical and functional solution

Aquadrop®
NANO

Thickness
0,20 mm
8 mil

Diameter
16/22 mm

The best choice for seasonal crops on sloped soils or in greenhouses

Aquadrop®
NANO

Thickness
0,25 mm
10 mil

Diameter
16/22 mm

Reinforced mono-seasonal for mechanized installation

FITTINGS FOR DRIP TAPE WITH RING NUT 16 and 22 mm



COUPLING



TEES



OFFTAKE
WITH RUBBER



MALE THREADED
ADAPTOR



90° ELBOW

FITTINGS FOR DRIP TAPE WITH FAST RING 16 and 22 mm



COUPLING



90° ELBOW



OFFTAKE
WITH RUBBER



MALE THREADED
ADAPTOR



END CAP

■ **16 mm** RECOMMENDED LATERAL LENGTH (m) RELATED TO EMISSION UNIFORMITY (EU%) ON FLAT GROUND Working pressure 1,0 Bar

Nominal Flow Rate l/h	Emission Uniformity %	Spacing cm					
		10	15	20	30	40	50
0,60	85	164	216	268	357	433	499
	90	114	149	184	243	282	335
0,80	85	134	174	214	286	347	399
	90	95	121	147	194	226	268
1,10	85	118	146	173	221	268	307
	90	84	105	126	163	195	226

Nominal Flow Rate l/h	Emission Uniformity %	Spacing cm					
		10	15	20	30	40	50
1,60	85	87	111	135	177	213	246
	90	49	69	89	121	145	179
2,00	85	75	93	110	142	168	193
	90	47	62	77	105	131	152

■ **22 mm** RECOMMENDED LATERAL LENGTH (m) RELATED TO EMISSION UNIFORMITY (EU%) ON FLAT GROUND Working pressure 1,0 Bar

Nominal Flow Rate l/h	Emission Uniformity %	Spacing cm					
		10	15	20	30	40	50
0,60	85	301	383	466	617	755	873
	90	231	286	341	440	522	610
0,80	85	243	308	373	494	604	698
	90	188	231	273	352	418	488
1,10	85	179	237	294	394	478	541
	90	138	171	205	267	323	370

Nominal Flow Rate l/h	Emission Uniformity %	Spacing cm					
		10	15	20	30	40	50
1,60	85	140	175	210	275	333	387
	90	113	138	163	208	247	284
2,00	85	113	149	184	244	296	341
	90	87	112	137	182	223	259

