

LINEAR®

flat pc dripline

THE MOST ADVANCED SOLUTION IN MICRO-IRRIGATION

Product description

Linear Flat Pc® is a high density polyethylene dripline with pressure-compensating flow flat dripper available in no-drain and anti-siphon version.

The emitter compensation mechanism ensures a constant flow rate at each drip point allowing for perfect emission uniformity and the maximum in terms of crop yields.

The in-line drippers with pressure-compensating membrane are the most technologically advanced solution in the field of precision irrigation.

Product range

DIAMETER Ø - mm	16	20	23	25
THICKNESS mil	15 - 35 40 - 45	40 - 45 48	45 - 48	45 - 48
THICKNESS mm	0.38-0.87 1.0-1.13	1.0 - 1.13 1.20	1.13 - 1.20	1.13 - 1.20
FLOW RATE* l/h 3,5bar	1,1 - 1,5 - 2,4 - 3,8			
SPACING cm	15 - 20 - 23 - 25 - 30 - 33 - 40 - 50 - 60 - 70 80 - 100 - 120 - 150			

Table in nominal values

*≥ 35 mil minimum pressure 0,5 bar maximum pressure 3,5 bar
 * < 35 mil minimum pressure 0,5 bar maximum pressure 3,5 bar



Product Certification
BUREAU VERITAS
Certification

N. 1302/001



Recommended applications

Linear Flat Pc® is particularly suitable for irregular terrain, with slopes and for long runs, also in sub-irrigation and impulse irrigation.



Crops

Linear Flat Pc® is suitable for open field or greenhouse applications in multi-seasonal tree crops such as oranges, lemons, grapes, apples, pears, almonds, olives, kiwis, hazelnuts.

Dripper features

- Flat emitter;
- Flow compensated with silicone diaphragm;
- **No-drain version:** opens and closes all the drippers at the same time and is designed for impulse irrigation or where short and frequent irrigation cycles are required. The system is kept under pressure ensuring perfect uniformity of delivery, saving time, water and energy;
- **Anti-siphon version:** suitable for sub-irrigation as it avoids the phenomenon of suction;
- Constant flow rate as the inlet pressure varies;
- Perfect homogeneity;
- Excellent resistance to clogging;
- Low technological coefficient of variation;



Advantages

- Reliable operation and longer life;
- High resistance to UV rays and fertilizers used in agriculture;
- Ease of application also thanks to the double continuous stripes, emitter side;
- Very little maintenance required.

Sub-irrigation advantages:

- Water saving as it eliminates water evaporation;
- Lower risk of disease as it keeps the top of the soil dry;
- Stronger roots because chasing the water they penetrate deeper into the ground;
- Better efficiency of fertilizers as they are applied directly to the root zone;
- Easy field access for harvesting or maintenance.

Maximum length of recommended lines, in metres, with emission uniformity (E.U.) of 85%

Nominal Diameter Ø 16 mm

 FLOW RATE	 SPACING cm										Working pressure (bar)
	15	20	30	40	50	60	70	80	90	100	
1,1	51	68	98	126	152	176	200	221	243	264	1.00
	74	99	142	184	221	257	293	326	357	388	2.00
	88	118	170	219	265	308	349	389	427	464	3.00
1,5	38	50	72	93	112	130	147	164	180	194	1.00
	55	73	104	135	163	190	215	239	264	286	2.00
	65	86	125	160	194	227	257	286	315	342	3.00
2,4	30	40	57	73	88	103	117	130	142	154	1.00
	43	58	83	106	129	150	170	189	208	226	2.00
	51	68	98	127	154	179	203	227	248	271	3.00
3,8	22	29	42	55	66	77	87	97	106	115	1.00
	32	42	62	79	96	112	127	142	155	169	2.00
	38	50	73	94	114	133	151	169	186	202	3.00

Nominal Diameter Ø 20 mm

 FLOW RATE	 SPACING cm										Working pressure (bar)
	15	20	30	40	50	60	70	80	90	100	
1,1	90	120	167	209	248	284	318	350	381	410	1.00
	131	175	245	307	365	419	470	517	563	607	2.00
	157	209	293	367	437	501	562	620	675	728	3.00
1,5	66	88	123	154	183	210	235	258	282	303	1.00
	96	129	180	227	269	309	347	383	417	448	2.00
	115	153	215	271	322	370	415	458	499	538	3.00
2,4	52	69	97	122	145	166	186	205	223	240	1.00
	76	102	142	179	213	245	275	302	329	356	2.00
	90	121	170	214	255	293	329	362	395	426	3.00
3,8	39	52	72	91	108	124	139	153	166	180	1.00
	57	76	106	134	159	182	204	226	246	266	2.00
	67	90	127	159	190	218	246	270	332	318	3.00

The values of the lines in meters are indicative

Maximum length of recommended lines, in metres, with emission uniformity (E.U.) of 85%

Nominal Diameter Ø 23 mm

 FLOW RATE	 SPACING cm										Working pressure (bar)
	15	20	30	40	50	60	70	80	90	100	
1,1	123	164	227	284	337	385	431	474	515	555	1.00
	179	239	334	419	496	568	636	700	762	822	2.00
	214	285	399	500	594	681	763	841	914	986	3.00
1,5	90	121	167	210	248	284	319	351	382	410	1.00
	132	176	246	309	366	419	470	518	563	608	2.00
	157	210	293	369	438	503	563	621	676	729	3.00
2,4	72	95	132	166	197	225	252	278	302	325	1.00
	104	139	194	244	290	332	373	410	446	482	2.00
	124	166	232	292	347	398	446	491	536	577	3.00
3,8	53	70	99	123	147	168	188	207	226	243	1.00
	77	103	144	181	216	247	278	306	334	359	2.00
	92	123	172	217	259	297	333	367	400	431	3.00

Nominal Diameter Ø 25 mm

 FLOW RATE	 SPACING cm										Working pressure (bar)
	15	20	30	40	50	60	70	80	90	100	
1,1	145	194	268	336	398	455	509	560	608	656	1.00
	212	283	394	494	586	671	752	827	901	971	2.00
	253	337	471	591	702	805	902	993	1080	1164	3.00
1,5	107	142	198	248	293	336	376	415	451	485	1.00
	156	208	290	365	433	496	555	611	666	718	2.00
	186	248	347	436	518	594	666	734	799	861	3.00
2,4	84	113	156	196	233	266	298	329	357	384	1.00
	123	164	230	288	342	392	440	485	527	569	2.00
	147	196	274	345	409	470	527	581	633	682	3.00
3,8	62	83	116	146	174	199	222	244	267	287	1.00
	91	122	171	214	255	292	329	362	394	424	2.00
	109	146	204	257	306	350	393	434	472	509	3.00

The values of the lines in meters are indicative



The most
advanced solution
in micro-irrigation

Specifications Packaging - Standard rolls

 DIAMETER Ø - mm	 THICKNESS mil	Roll length m	Rolls / Container-Truck			Meters / Container		Meters / Truck
			20Ft	40FtHC	Truck	20Ft	40FtHC	
16	35	500	150	350	370	75.000	175.000	185.000
	40							
	45							
20	40	300	130	300	340	39.000	90.000	102.000
	45							
	48							

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Price tables

Ø Diameter 16 mm

THICKNESS	SPACING (cm) also available over 60cm														
	15	20	23	25	30	33	35	40	50	60	70	75	80	90	100
mil	PRICE €/m														
35	0,475	0,394	0,379	0,362	0,341	0,330	0,325	0,313	0,296	0,285	0,277	0,274	0,271	0,267	0,263
40	0,495	0,413	0,400	0,382	0,360	0,350	0,345	0,333	0,317	0,305	0,297	0,294	0,291	0,287	0,283
45	0,515	0,434	0,419	0,402	0,381	0,371	0,365	0,353	0,337	0,326	0,318	0,314	0,312	0,307	0,303

Ø Diameter 20 mm

THICKNESS	SPACING (cm) also available over 60cm														
	15	20	23	25	30	33	35	40	50	60	70	75	80	90	100
mil	PRICE €/m														
40	0,548	0,480	0,465	0,447	0,426	0,417	0,410	0,399	0,382	0,371	0,363	0,360	0,357	0,352	0,349
45	0,572	0,504	0,490	0,473	0,451	0,441	0,436	0,423	0,407	0,396	0,388	0,384	0,382	0,377	0,373
48	0,595	0,525	0,511	0,494	0,472	0,462	0,457	0,445	0,428	0,417	0,409	0,406	0,403	0,398	0,394

Ø Diameter 23 mm

THICKNESS	SPACING (cm) also available over 60cm														
	15	20	23	25	30	33	35	40	50	60	70	75	80	90	100
mil	PRICE €/m														
45	0,600	0,530	0,517	0,500	0,478	0,468	0,462	0,450	0,434	0,423	0,415	0,411	0,408	0,404	0,400
48	0,629	0,556	0,541	0,524	0,502	0,493	0,487	0,475	0,458	0,447	0,439	0,436	0,433	0,428	0,424

Ø Diameter 25 mm

THICKNESS	SPACING (cm) also available over 60cm														
	15	20	23	25	30	33	35	40	50	60	70	75	80	90	100
mil	PRICE €/m														
45	0,626	0,552	0,539	0,521	0,499	0,489	0,484	0,472	0,456	0,445	0,437	0,433	0,43	0,426	0,422
48	0,643	0,573	0,559	0,542	0,520	0,510	0,505	0,493	0,477	0,465	0,458	0,454	0,451	0,447	0,443

Available in brown color with a supplement of €0.047/m