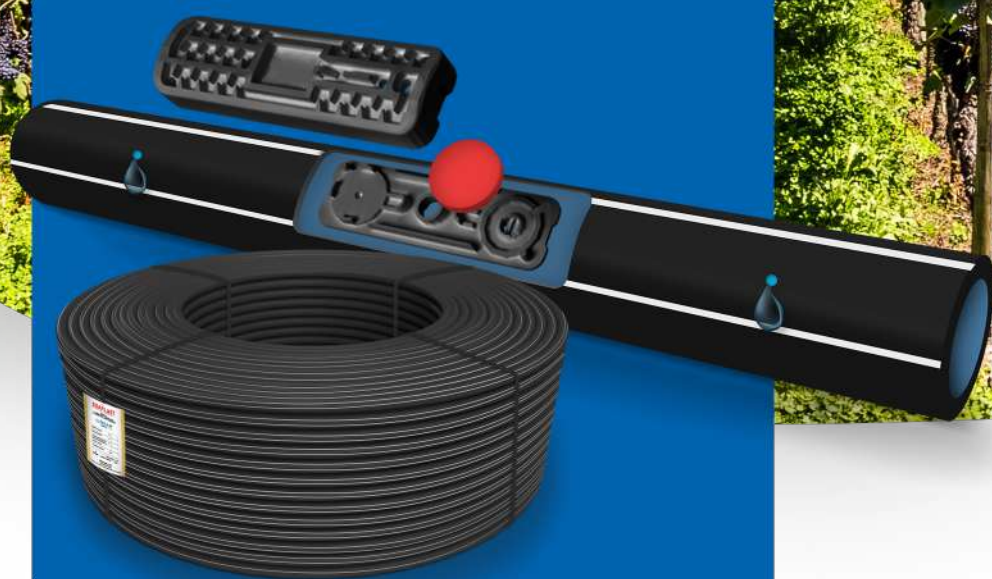


LINEAR[®]

FLAT PC AS/ND



**The most
advanced solution
in micro-irrigation**

SOAPLAST
ITALIAN DRIPLINES MANUFACTURER

Description

Linear Flat Pc® is a dripline polyethylene 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	35 - 40 - 45	40 - 45 - 48	45 - 48	45 - 48
 THICKNESS mm	0.87 - 1.0 1.13	1.0 - 1.13 1.20	1.13 - 1.20	1.13 - 1.20
 FLOW RATE l/h 0,5/3,0 bar	1,1 - 1,5 - 2,4 - 3,8			
 SPACING cm	15 - 20 - 25 - 15 - 20 - 23 - 25 - 30 - 33 - 40 - 50 - 60 - 70 - 80 - 100 - 120 - 150			

Table in nominal values

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;

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.



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 recommended length of the lines, in metres.

Nominal Diameter Ø 16 mm

 FLOW RATE	 SPACING cm										Working pressure (bar)
	15	20	30	40	50	60	70	80	90	100	
1,1	52	70	87	122	147	172	194	215	237	257	1.00
	76	102	140	179	217	253	287	319	350	380	2.00
	89	118	167	214	260	303	343	382	420	456	3.00
1,5	48	64	89	112	131	150	168	184	200	215	1.00
	71	95	132	164	194	222	248	273	296	319	2.00
	86	114	157	197	233	266	298	327	355	384	3.00
2,4	37	49	69	85	101	115	129	142	154	166	1.00
	55	73	101	126	149	171	191	210	228	245	2.00
	65	86	120	150	178	205	228	251	274	294	3.00
3,8	27	36	50	64	76	86	96	106	114	123	1.00
	40	53	75	94	111	127	142	156	170	183	2.00
	48	64	89	112	133	152	170	187	204	219	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	87	115	163	204	242	276	309	340	371	399	1.00
	124	165	238	300	355	407	456	502	546	589	2.00
	151	201	284	357	424	487	546	601	655	706	3.00
1,5	69	92	131	164	195	223	250	275	300	322	1.00
	102	136	192	242	287	329	369	406	442	477	2.00
	121	162	230	289	343	395	442	488	531	573	3.00
2,4	53	71	101	126	150	172	192	212	231	248	1.00
	79	105	147	185	220	253	284	313	340	368	2.00
	93	124	176	221	264	303	340	374	408	440	3.00
3,8	39	52	75	94	112	128	144	158	172	185	1.00
	58	78	110	138	164	188	211	233	254	274	2.00
	69	92	130	165	196	225	252	278	304	328	3.00



The values of the lines in meters are indicative

Maximum recommended length of the lines, in metres.

Nominal Diameter Ø 23 mm

 FLOW RATE	 SPACING cm										Working pressure (bar)
	15	20	30	40	50	60	70	80	90	100	
1,1	100	133	187	234	278	318	356	392	426	458	1.00
	142	190	273	345	408	469	524	578	628	677	2.00
	173	231	327	411	487	560	628	692	753	812	3.00
1,5	79	106	151	189	224	257	288	317	345	370	1.00
	117	156	221	278	330	378	424	467	509	549	2.00
	140	186	264	332	395	454	509	561	610	659	3.00
2,4	61	81	116	145	173	197	221	244	265	286	1.00
	90	120	170	213	253	291	327	360	392	423	2.00
	107	143	202	254	303	348	390	431	470	506	3.00
3,8	45	60	86	108	128	147	165	182	197	213	1.00
	67	89	126	158	189	216	243	268	292	315	2.00
	79	106	149	190	225	259	290	320	349	377	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	108	144	204	255	302	346	387	426	463	498	1.00
	155	206	297	375	444	509	570	628	683	736	2.00
	188	251	355	446	530	609	683	752	818	883	3.00
1,5	86	115	164	205	244	279	313	344	375	403	1.00
	127	170	240	302	359	411	461	508	553	597	2.00
	152	202	287	361	429	493	553	610	663	717	3.00
2,4	66	89	126	158	188	215	240	266	289	310	1.00
	98	131	184	232	275	316	355	392	426	460	2.00
	116	155	219	276	330	378	424	468	510	550	3.00
3,8	49	65	93	118	139	160	179	198	215	232	1.00
	73	97	137	172	205	235	264	291	318	342	2.00
	86	115	162	206	245	281	315	348	380	410	3.00

The values of the lines in meters are indicative



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Specifications Packaging - Standard rolls

DIAMETER Ø - mm	THICKNESS mil	Roll length m	Rolls / Container-Truck			Meters / Container		Meters / Truck
			20Ft	40FtHC	Bilico	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							

Soaplast reserves the right to make to its catalogs and products, at any time and without notice, any modifications which, in its unquestionable judgement, it deems convenient for production purposes and/or useful for improving their quality, functionality and performance.

Filtration requirements

Soaplast always recommends using a good water filtration system designed and installed by an expert operator. Together with the filtration indicated in the table, it is essential to ensure that the water does not contain oxidizable dissolved salts which can cause precipitation. The dispensing tube is also suitable for fertigation, provided that the fertilizers used are water-soluble, which do not produce oxide precipitations in the labyrinth passages of the dispensing devices (e.g. fertilizers containing ferrous microelements in ionic form).

WATER RESOURCE	OBSTRUCT ELEMENTS	TYPE OF FILTRATION	REQUEST FILTRATION
Well	Sand, calcium carbonate	Net filter	≤ 1,3 l/h = 150 MESH > 1,3 l/h = 120 MESH
Perforation	Sand, calcium carbonate	Separator filter or hydrocyclone	
River	Silt, organic material, algae, bacteria	Sand filter, separator mesh or cyclone	
Channel		Sand filter, separator net or cyclone	
Basin		Floating filter, sand filter, mesh	

Connection fittings and valves

COUPLING



END-PLUG



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Drip irrigation allows for considerable water and energy savings, the punctual use of water offers nourishment to the plants and avoids unnecessary waste.

Soaplast srl in the course of 40 years of activity has become a point of reference in the world of drip irrigation; in addition to a **complete range of driplines**, it supplies the best solutions including: in-line drippers, filters and filtration systems, PE and layflat pipes, fittings, valves and fittings necessary for the installation of the irrigation systems.

The company also markets an irrigation line for gardening consisting of static and dynamic sprinklers, solenoid valves, programmers, irrigation items and synthetic lawns.

Soaplast has obtained the certification of its products according to the **ISO9261** standard by the well-known international organization Bureau Veritas.

In Soaplast we believe in an agriculture that respects the Earth, we work every day to develop increasingly efficient products that reduce waste and are easy to use and recycle.



The information provided here is for international dissemination and for general and non-specific use.

The technical data tend in the best way to represent the hydraulic behaviour of our products in the field, however, before making any decision that refers to them, it is advisable to check them with the help of specialists in the sector.

Soaplast reserves the right to modify the technical specifications and their shape without notice.

Product Certification

BUREAU VERITAS
Certification



N. 1302/001



info@soaplast.it
www.soaplast.it

