



dual[®] drip



European Patent

**TWO DROPS
DOUBLE
ADVANTAGES**

SOAPLAST
ITALIAN DRIP LINES MANUFACTURER

PRODUCT DESCRIPTION

The **DUALDRIP®** integral dripline produced by Soapplast within its factory in Italy represents an important technological achievement in the drip irrigation sector, being the world's first flat dripline with bilateral delivery on each integrated dripper.

It is a polyethylene dripline with flat turbulent flow dripper integrated during the extrusion process. The intuition was born from the need to offer a high performance product to an increasingly demanding market.

Soapplast is proud to have received from the European Patent Office (EPO) the patent for the "drop-by-drop irrigation hose having internal dripping elements. Flat drip with two holes for dripper: DUALDRIP."

DUALDRIP® has been conceived for the irrigation of crops in open field and crops with covered soil as well. Its use is ideal in flower crops such as roses or carnations, and in horticultural plantations such as: onion, garlic, celery, carrot, tomato, strawberry, asparagus, melon, watermelon, potato, cucumber, zucchini, eggplant, pepper and more.

The wide range of spacing and nominal flow rate allows a high flexibility of the product, adapting it to the many needs required by the cultivation activities.

DUALDRIP® is available in different thicknesses sizes: from the finest ones made for crops generally not exceeding two years, up to the medium-heavy thicknesses ones made for a multi-season irrigation cycle.



RECOMMENDATIONS FOR USE

Soapplast always recommends to use of a good water filtration system designed and installed by skilled operator.

Nominal Flow rate [l/h]	Filtration recommended	
	[Mesh]	[Micron]
1,2	150	100
1,6	130	120
2,2	130	120
4	130	120

RANGE OF PRODUCTS

Diameters mm	12 - 16 - 22
Thickness (mil) Ø 12	6 - 8 - 10 - 12 - 18 - 24
Thickness (mil) Ø 16	6 - 8 - 10 - 12 - 15 - 18 - 24 - 35 - 40
Thickness (mil) Ø 22	8 - 10 - 12 - 15 - 18
Nominal flow rate l/h (0,7 bar)	1, 2 - 1,6 - 2,2 - 4,0
Spacing cm	15- 20 - 23 - 25 - 30 - 33 - 40 - 50 - 60 - 70

TWO DROPS DOUBLE ADVANTAGES



DUAL DRIP® FEATURES

- Increase in irrigated area and homogeneity;
- Less water dispersion in the presence of sandy soils;
- Reduced percolation on the dripline;
- Less risk of occlusion: the double outlet ensures that delivery continues even if one of the two holes is blocked;
- Excellent resistance against occlusion thanks to the special patented design of the labyrinth which favors a turbulent flow with a self-cleaning effect, even at low operating pressures;
- A further barrier to the passage of impurities with an integrated filter;
- Excellent uniformity emission for the entire length of the dripline, even in fertigation cycles;
- Complete emptying at the end of the irrigation cycle with consequent lower risk of bio-occlusion;
- Low pressure sensitivity;
- Low technological variation coefficient;
- High resistance to the UV rays, thermal and mechanical stresses, attack of micro-organisms and molds, salt water, acids or alkaline solutions normally used in agriculture;
- Easy spreading thanks to the double continuous strip and emitter side, ensuring significant labor savings;
- Less maintenance required;

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drip

RECOMMENDED BRANCH LENGTH

The max recommended distances, obtained in compliance with a uniformity of emission rate EU=90%(*), inlet pressure p=1 bar and for level grounds, are expressed in meters in the following table in function of diameter, flow rate and spacing:

Ø mm	qn l/h	Sp mil	SPACING (CM)												
			15	20	25	30	33	40	50	60	70	80	100	120	150
Ø16	1,2	6 mil	97	118	136	154	164	186	216	244	270	295	343	387	449
		8 mil	100	121	140	158	168	191	222	250	277	303	351	397	460
		10 mil	102	124	143	162	172	196	227	257	284	311	361	407	472
		18 mil	115	139	161	182	194	220	255	288	319	349	405	457	531
	1,6	6 mil	83	101	117	132	141	160	185	209	232	253	294	332	385
		8 mil	85	103	119	135	143	163	189	213	236	258	300	338	393
		10 mil	87	105	122	137	146	166	193	218	241	264	306	345	401
		18 mil	95	115	133	150	160	182	211	238	264	288	334	378	438
	2,2	6 mil	67	81	94	106	113	129	149	169	187	204	237	267	310
		8 mil	68	82	95	107	115	130	151	170	189	206	239	270	313
		10 mil	69	83	96	109	116	131	152	172	191	208	242	273	316
		18 mil	71	86	100	113	120	137	159	179	198	217	251	284	329
4,0	6 mil	46	56	65	73	78	88	102	116	128	140	162	183	213	
	8 mil	47	56	65	74	78	89	103	117	129	141	164	185	214	
	10 mil	47	57	66	74	79	90	104	118	130	142	165	186	216	
	18 mil	49	59	68	77	82	93	108	122	135	147	171	193	223	
Ø22	1,2	8 mil	169	204	237	268	285	324	376	425	470	514	597	674	781
		10 mil	174	211	244	276	294	334	387	437	484	529	614	693	804
	1,6	8 mil	145	175	203	229	244	277	322	363	403	440	510	576	669
		10 mil	148	179	207	234	249	283	329	371	411	449	521	588	683
	2,2	8 mil	115	139	162	182	194	221	256	289	320	350	406	458	532
		10 mil	117	141	164	185	197	224	259	293	324	354	411	464	539
	4,0	8 mil	79	96	111	125	133	152	176	198	220	240	279	315	365
		10 mil	80	97	112	126	135	153	177	200	222	242	281	317	368

Emission Uniformity calculated with the Keller-Karmeli equation:

$$EU = 100 \left(1 - 1,27 \frac{CV}{\sqrt{n}} \right) \frac{Q_{min}}{Q_{med}}$$

CV = Coefficient of technological variation

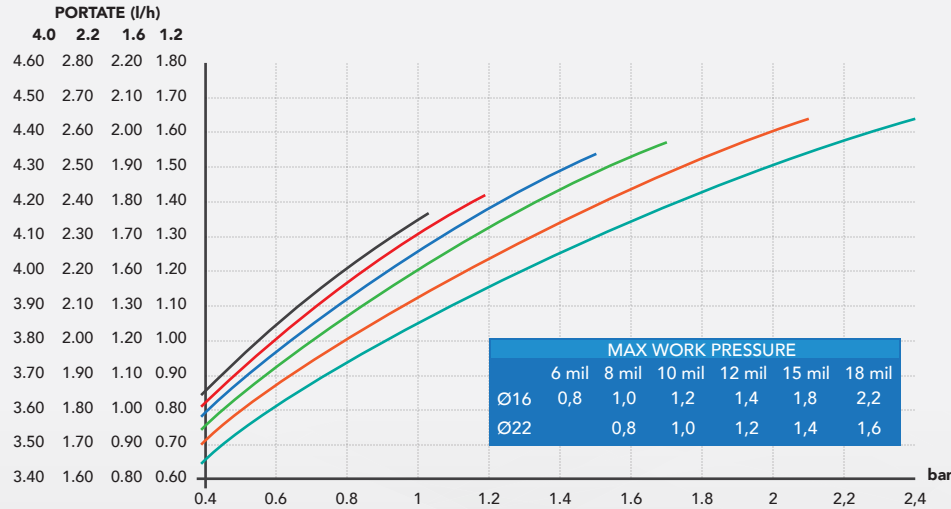
n = Number of drippers

Qmin = Minimum flow rate (l/h)

Qmed = Medium flow rate (l/h)

(*) EU: Emission Uniformity calculated

NOMINAL FLOW RATE (l/h)



PRESSURE CURVE

Flow rate-pressure curves, obtained in compliance with the ISO 9261 regulation, are classified as tolerant to incoming pressure.



Diameters mm	Thickness mil	Lenght (meters/roll)				Reels/pallet	Reels/Container	
		Spacing					20 Ft	40 Ft/Hc
		15	20	25	≥ 30			
16	6	2200	2500	2500	2500	16/32/36	320	640/720
	8	1700	2000	2000	2000			
	10	1600	1800	2000	2000			
	12	1500	1600	1600	1800			
	15	1100	1300	1300	1300			
	18	800	1000	1000	1000			
22	8	1500	1600	1700	1700			
	10	1400	1600	1600	1600			
	12	1200	1200	1300	1300			
	15	1000	1000	1000	1000			
	18	800	800	800	800			

PACKAGING



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SOAPPLAST

ITALIAN DRIPLINES MANUFACTURER

Soapplast offers a **complete range of driplines** for every type of crop, topographical conditions, soil quality and water.

The **drip irrigation system** allows significant savings of water and economic, the efficient use of water, where necessary, guarantees nourishment to the plants avoiding unnecessary waste.

Since the **80s**, Soapplast has invested in the research of irrigation solutions for agriculture using high quality raw materials and advanced machinery in the production of driplines.

The constant quality of the production process is guaranteed by the **ISO 9001** standard certified by Rina Services S.p.a.

The Soapplast International Logistics benefits great simplifications thanks to the **AEO** Authorization released by the European Agency of Customs and Monopolies, after strict controls.

Soapplast goods sold to Countries which have signed a Free Trade Agreement with the EU pay less customs duties, so-called preferential customs tariffs, because Soapplast is an **Exporter Authorized** by the European Customs Authorities.

The Company also holds **International Patents**.

Today Soapplast is pleased to offer its customers completely "**Made in Italy**" products, technologically advanced, reliable and appreciated all over the **world**.



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