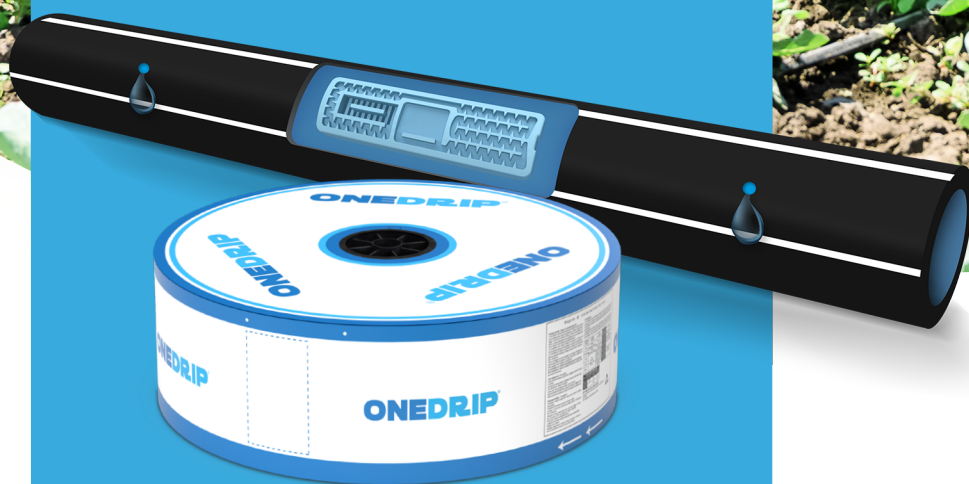


ONEDRIP®



The super
resistant dripline

SOAPLAST
ITALIAN DRIPLINES MANUFACTURER

Description

Onedrip® is a medium density polyethylene dripline, characterized by a flat single-drop dripper, with self-cleaning turbulent flow, welded to the wall of the pipe.

The exceptional labyrinth makes it insensitive to pressure and incredibly resistant to occlusion.

Thanks to its wide range of diameters, thicknesses and flow rates, **Onedrip®** proves to be a widely versatile product suitable for satisfying various irrigation needs: from seasonal to multi-seasonal crops in thicknesses greater than 18mil.

Product range

DIAMETER Ø - mm	16	22	25	29
THICKNESS mil	6 - 8 - 10 - 12 - 15 - 18 24 - 35 - 40	8 - 10 - 12 - 15 - 18	10 - 12 - 15	10 - 12
THICKNESS mm	0.15 - 0.20 - 0.25 - 0.30 0.38 - 0.45 - 0.60 0.89 - 1.02	0.20 - 0.25 - 0.30 0.38 - 0.45	0.25 - 0.30 - 0.38	0.25 - 0.30
FLOW RATE l/h 1 bar	0,8 - 1,1 - 1,20 - 1,6 - 2,4 - 3,8			
SPACING cm	15 - 20 - 23 - 25 - 30 - 33 - 40 - 50 - 60 - 70 - 80 - 100 - 120 - 150			

Table in nominal values

Dripper features

- Flat dripper;
- Turbulent flow;
- Labyrinth design with self-cleaning effect;
- integrated filter reduces the passage of impurities;
- Low sensitivity to pressure;
- Low coefficient of technological variation;



Recommended applications

Surface application is recommended, on level ground that does not require pressure compensation.

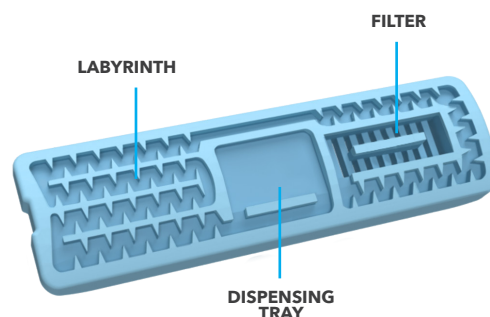


Crops

Onedrip® is ideal for open field or greenhouse applications in seasonal horticulture or floriculture crops such as onion, garlic, celery, carrot, tomato, strawberry, asparagus, melon, watermelon, potato, cucumber, courgette, aubergine, pepper and more.




Advantages

- Excellent emission uniformity along the entire length of the line;
- High resistance to UV rays and fertilizers used in agriculture;
- Ease of application thanks to the double continuous strip, emitter side;
- Very little maintenance required.






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

Nominal Diameter Ø 16 mm




 FLOW RATE	 SPACING cm												 SLOPE
	15	20	25	30	33	40	50	60	75	80	90	100	
0,8	139	173	209	243	263	309	369	431	517	548	606	665	-1
	126	156	183	209	223	255	298	337	392	409	442	475	0
	113	139	158	176	183	202	226	242	266	270	279	285	+1
1,1	117	146	176	204	222	259	310	363	435	461	511	560	-1
	106	131	154	176	188	214	250	284	330	344	373	400	0
	96	117	132	147	154	169	190	204	224	227	235	240	+1
1,2	110	137	165	191	209	244	292	341	409	433	480	526	-1
	100	123	145	165	177	201	235	266	310	323	350	375	0
	90	110	124	139	145	159	179	192	210	213	221	225	+1
1,6	89	110	134	154	168	197	236	276	331	350	388	425	-1
	81	99	117	133	143	163	190	215	251	262	283	304	0
	73	89	101	112	117	129	145	155	170	173	179	182	+1
2,4	68	85	103	118	129	152	182	211	253	269	297	327	-1
	62	77	90	102	110	125	146	165	192	200	217	233	0
	56	68	77	86	90	99	111	119	130	132	137	140	+1
3,8	50	63	76	88	95	112	134	157	188	199	220	241	-1
	45	56	67	76	81	92	108	123	143	149	161	172	0
	41	50	57	64	66	73	82	89	97	98	101	103	+1

Nominal Diameter Ø 22 mm




 FLOW RATE	 SPACING cm												 SLOPE
	15	20	25	30	33	40	50	60	75	80	90	100	
0,8	232	291	353	410	446	525	630	738	887	941	1.042	1.143	-1
	211	262	309	353	378	434	508	576	672	702	760	817	0
	190	233	266	297	310	343	386	415	457	464	479	490	+1
1,1	194	244	297	345	375	442	530	621	746	792	877	962	-1
	176	220	260	297	318	366	428	485	565	591	640	687	0
	159	196	224	250	261	289	325	349	385	390	403	412	+1
1,2	182	229	279	324	352	415	498	583	701	743	824	903	-1
	166	206	244	279	299	343	402	456	531	555	601	645	0
	149	184	210	234	245	271	305	328	361	366	379	387	+1
1,6	147	185	225	262	285	335	403	471	566	601	666	731	-1
	134	167	197	226	242	277	325	368	429	449	486	522	0
	121	148	170	189	198	219	247	265	292	296	306	313	+1
2,4	113	143	172	201	219	258	309	362	435	462	512	561	-1
	103	128	151	173	186	213	249	283	330	345	373	401	0
	92	114	130	145	152	168	189	204	224	227	235	241	+1
3,8	84	105	128	149	162	190	229	269	322	342	379	415	-1
	76	95	112	128	137	157	185	210	244	255	276	297	0
	68	84	96	108	112	124	140	151	166	168	174	178	+1

The values of the lines in meters are indicative

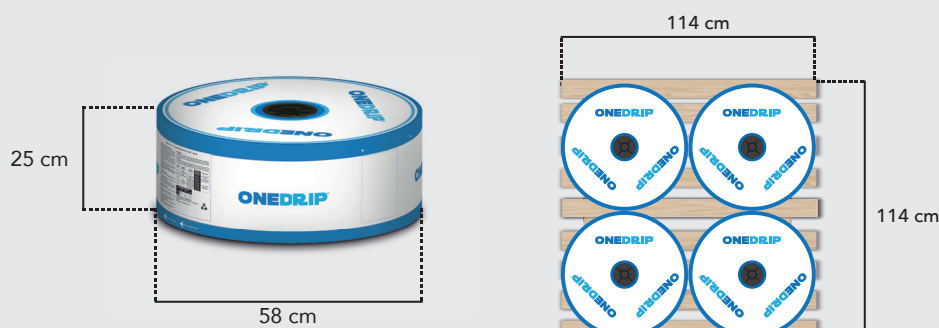
Nominal Diameter Ø 25 mm

 FLOW RATE	 SPACING cm												 SLOPE
	15	20	25	30	33	40	50	60	75	80	90	100	
0,8	279	351	427	497	542	639	767	899	1.081	1.148	1.271	1.397	-1
	254	316	374	428	460	528	619	702	819	857	928	998	0
	228	282	322	360	377	417	470	506	557	565	585	599	+1
1,1	234	295	359	418	456	537	645	756	910	965	1.071	1.175	-1
	213	266	315	360	386	444	520	591	690	720	782	839	0
	191	236	271	303	317	351	396	425	469	475	492	504	+1
1,2	220	277	337	392	428	504	606	710	855	907	1.006	1.103	-1
	200	249	296	338	363	417	489	555	648	677	734	788	0
	180	222	255	284	297	329	371	399	440	446	462	473	+1
1,6	177	224	272	317	346	407	490	574	691	733	813	892	-1
	161	202	239	273	294	337	395	449	524	547	594	637	0
	145	180	205	230	241	266	301	323	356	361	374	382	+1
2,4	136	171	209	243	265	313	376	441	530	563	623	685	-1
	124	154	183	210	225	258	303	345	402	420	455	489	0
	111	137	158	176	184	204	230	248	273	278	287	294	+1
3,8	101	127	154	180	197	231	279	327	393	418	462	508	-1
	92	114	135	155	167	191	225	255	298	312	337	363	0
	82	102	116	130	137	151	171	184	202	206	213	218	+1

Nominal Diameter Ø 29 mm


 FLOW RATE	 SPACING cm												 SLOPE
	15	20	25	30	33	40	50	60	75	80	90	100	
0,8	362	457	557	649	709	837	1.006	1.181	1.423	1.510	1.674	1.838	-1
	329	412	489	560	601	691	811	922	1.078	1.127	1.222	1.313	0
	296	366	420	470	493	546	617	664	733	744	770	788	+1
1,1	286	363	442	516	563	665	801	939	1.133	1.202	1.332	1.464	-1
	260	327	388	445	477	549	646	734	858	897	972	1.045	0
	234	291	334	374	391	434	491	528	584	592	613	627	+1
1,2	269	341	415	485	529	624	752	882	1.064	1.129	1.251	1.375	-1
	244	307	364	418	448	516	606	689	806	842	913	982	0
	220	273	313	351	368	408	461	496	548	556	575	589	+1
1,6	217	276	336	391	428	505	608	714	860	913	1.012	1.112	-1
	197	248	294	337	363	417	490	557	651	681	738	794	0
	178	221	253	283	297	330	373	401	443	450	465	476	+1
2,4	166	211	257	301	328	387	466	547	659	701	777	853	-1
	151	190	226	259	278	320	376	428	500	523	567	609	0
	136	169	194	218	228	253	286	308	340	345	357	366	+1
3,8	123	156	190	223	243	287	346	405	489	518	575	633	-1
	112	141	167	192	206	237	279	316	370	387	420	452	0
	101	125	143	161	169	187	212	228	252	255	264	271	+1

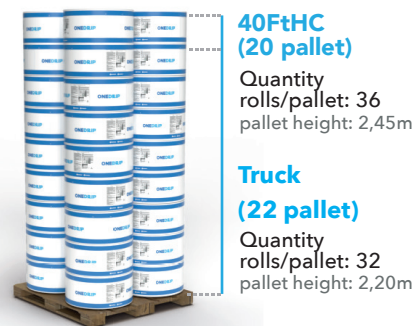
The values of the lines in meters are indicative



Specifications Packaging - Standard rolls

NOMINAL DIAMETER Ø 16 mm

 mil	ROLL LENGTH (m)				Rolls/Pallet	Rolls / Container-Truck		
	SPACING (cm)					20Ft (10 pallet)	40FtHC (20 pallet)	Truck (22 pallet)
15	20	25	≥30		16/32/36	320	720	792
6	2200	2500	2500	2500				
8	1800	2500	2500	2500				
10	1800	2200	2200	2200				
12	1500	1600	1600	1800				
15	1100	1300	1300	1300				
18	1100	1100	1100	1100				
24	600	800	800	800				
35	500	500	500	500				
40	500	500	500	500				




**Truck
(22 pallet)**
Quantity
rolls/pallet: 32
pallet height: 2,20m

mil	Meters/Container		Meters / Truck
	20Ft	40FtHC	
6	704.000 / 800.000	1.584.000 / 1.800.000	1.742.400 / 1.980.000
8	576.000 / 800.000	1.296.000 / 1.800.000	1.425.600 / 1.980.000
10	576.000 / 704.000	1.296.000 / 1.584.000	1.425.600 / 1.742.400
12	480.000 / 512.000 / 576.000	1.080.000 / 1.152.000 / 1.296.000	1.188.000 / 1.267.200 / 1.425.600
15	352.000 / 416.000	792.000 / 936.000	871.200 / 1.029.600
18	352.000	792.000	871.200
24	192.000 / 256.000	432.000 / 576.000	475.200 / 633.600
35	160.000	360.000	396.000
40	160.000	360.000	396.000




NOMINAL DIAMETER Ø 22 mm

 mil	ROLL LENGTH (m)				Rolls/Pallet	Rolls / Container-Truck		
	SPACING (cm)					20Ft (10 pallet)	40FtHC (20 pallet)	Truck (22 pallet)
	15	20	25	≥30				
8	1800	1800	2000	2000	16/32/36	320	720	792
10	1600	1600	1800	1800				
12	1100	1300	1300	1300				
15	1000	1000	1000	1000				
18	800	800	1000	1000				


mil	Meters/Container		Meters / Truck
	20Ft	40FtHC	
8	576.000 / 640.000	1.296.000 / 1.440.000	1.425.600 / 1.584.000
10	512.000 / 576.000	1.152.000 / 1.296.000	1.267.200 / 1.425.600
12	352.000 / 416.000	792.000 / 936.000	871.200 / 1.029.600
15	320.000	720.000	792.000
18	256.000/320.000	576.000/720.000	633.600/792.000

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.

NOMINAL DIAMETER Ø 25 mm


 mil	ROLL LENGTH (m)				Rolls/Pallet	Rolls / Container-Truck			Meters/Container		Meters / Truck
	SPACING (cm)					20Ft (10 pallet)	40FtHC (20 pallet)	Truck (22 pallet)	20Ft	40FtHC	
	15	20	25	≥30							
10	1300	1300	1300	1300	16/32/36	320	720	792	416.000	936.000	1.029.600
12	1100	1100	1100	1100					352.000	792.000	871.200

NOMINAL DIAMETER Ø 29 mm

 mil	ROLL LENGTH (m)				Rolls/Pallet	Rolls / Container-Truck			Meters/Container		Meters / Truck
	SPACING (cm)					20Ft (10 pallet)	40FtHC (20 pallet)	Truck (22 pallet)	20Ft	40FtHC	
	15	20	25	≥30							
10	1300	1300	1300	1300	16/32/36	320	720	792	416.000	936.000	1.029.600
12	1100	1100	1100	1100					352.000	792.000	871.200

Specifications Packaging - Small rolls

NOMINAL DIAMETER Ø 16 mm

 mil	ROLL LENGTH (m)	Rolls/Pallet	Rolls / Container-Truck			Metri/Container		
	SPACING (cm)		20Ft (10 pallet)	40FtHC (20 pallet)	Truck (22 pallet)	20Ft	40FtHC	Meters / Truck
	15 - 20 - 23 - 25 - 30 - 33 - 40							
8	200*	128/256	1.280	5.120	5.632	256.000	1.024.000	1.126.400
	500	50/80	500	1.600	1.760	250.000	800.000	880.000
	1000	68/72	680	1.440	1.584	680.000	1.440.000	1.584.000

In boxes of 8 rolls/box, 16 boxes for low pallet, 128 rolls for low pallet.

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Connection fittings and valves

VALVES



COUPLING



END-PLUG



INSTALLATION AND USE RULES

STORAGE

The rolls should be stored by avoiding leaving them outdoors and exposed to the sun if they are not to be used for a long period.

For rolls with cardboard packaging, it is necessary to keep the packaging film and the band around the roll until installation. Their storage must take place on pallets avoiding direct contact with the ground. Do not stack pallets on top of each other if more than twenty rolls are stored on the pallet.

For rolls equipped with polypropylene strap bindings, we recommend storing them in a horizontal position in order to avoid excessive folding, preferably placed on a regular flat surface, overlapping with a maximum of five rolls on top of each other.

INSTALLATION

Installation of the emission tube is simple and does not require expensive equipment. The appropriate sleeves and fittings, easily available on the market, must be used.

It is recommended not to use surfactants or soaps when introducing the fittings because they could cause stress cracking phenomena in the emitting tube.

The delivery pipes must be installed with the drippers facing upwards to reduce deposits and sedimentation; they must also be fixed to the ground to prevent the wind from moving them, possibly with small piles of earth.

During installation, avoid rubbing on rough or sharp parts, corners and excessive tension; also avoid continuous rubbing against the ground during application.

If installation is done manually, supporting the rolls, either with strap or cardboard, inserting them into the appropriate metal roll holders so as to allow the roll itself to rotate freely.

In case of mechanical installation, place the metal and/or wooden discs against the cardboard discs of the reel or the walls of the roll with strap so that the reel-discs-axle assembly is secure. Leave 70-80 cm between the bottom of the coil and the injection pipe inlet.

To make the injection pipe, use a perfectly smooth pipe of suitable diameter, with a large bending radius, made of steel or PVC.

For products with cardboard packaging, the tube inlet must be flared to avoid rubbing on the edge. Slightly flatten the outlet of the injection tube (into a duck beak shape) to prevent the product from tipping over at the outlet.

Avoid stepping on the already installed emitting pipe to avoid causing irreversible damage to the drippers and compromising their correct functionality.

Emitting pipes are not suitable for installation under transparent mulch as they are sensitive to the lensing effect caused by condensation droplets.

If the soil contains insects with stinging chewing apparatus, it is advisable to disinfect the soil as the tendons themselves pierce the emitting pipe. It is also recommended to pay attention to the presence of small rodents and birds which can often cause damage to the emitting pipe.

FILTRATION

Degree of filtration required depending on the flow rate of the dripper:

Recommended filtration:

- for drippers with nominal flow rate $\leq 1,3 \text{ l/h} = 150 \text{ MESH}$
- for drippers with nominal flow rate $> 1,3 \text{ l/h} = 120 \text{ MESH}$

The filtration system is essential for the correct functioning of any irrigation system, in particular the drip one; The choice of filter system depends on several factors, including the water source, pollutants and type of application. For this reason it is recommended to rely on competent technical personnel for correct and suitable design and installation of the filtration system.

WATER QUALITY

It is recommended to make sure that the water to be used does not contain an excessive level of dissolved oxidizable salts (calcium, magnesium, iron bicarbonate, manganese) which could cause deposits and encrustations at the dispenser orifices causing what is called chemical obstruction.

Furthermore, particular attention must be paid to surface water used in localized irrigation as it may contain decomposing organic material (plants, grasses, leaves) and live organic material (algae spores, colonies of bacteria and fungi). While much decaying organic material can be stopped by proper filtration, algae and bacteria are not filtered out and can aggregate after filtration and clog drippers (biological clogging).

In any case, it is advisable to rely on expert technical personnel who analyze the water and carry out the correct treatment where necessary.

THE IMPLEMENTATION

Before connecting the emitting pipes to the head, it is good practice to run the system to purge all the pipes. At each start of the irrigation cycle it is useful to purge the residual air in the drippers.

Never exceed the maximum allowable pressure of the emitting pipes indicated on the label, even during transients (closing and opening maneuvers of valves and/or pumps) since exposure to pressures higher than the maximum can permanently alter the hydraulic response of the drippers.

With ambient temperatures above 40° , as could happen under mulch or due to heat peaks, it is recommended to reduce the maximum operating pressure indicated on the product label by at least 15%.

The emitting tubes, if correctly installed, do not require particular maintenance operations.

In the presence of water with a high mineral content, it is recommended to wash it immediately after the period of use and depending on particular needs.

RECOVERY AND RECYCLING

At the end of the season, during the possible rewinding phase for subsequent use of the emitter tube, it is necessary not to force the tension, in order to avoid harmful deformation phenomena.

The minimum rewinding radius is 6 centimeters for cardboard products, 40 centimeters for products with polypropylene strap.

The drip tube is made of completely recyclable polyethylene and must not be disposed of in the environment.

SUB-IRRIGATION

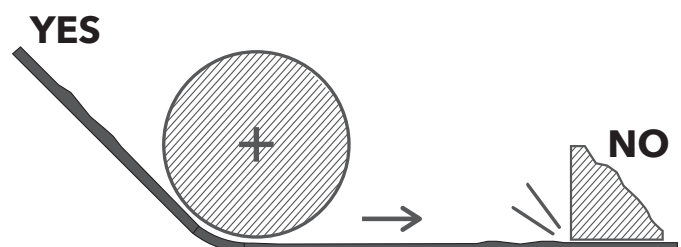
For products that can be used in sub-irrigation, it is recommended to rely on competent technical personnel for correct and suitable design and installation of the system.

We recommend the use of vent valves on the collectors to avoid suction of impurities through the hose delivery holes at the end of the irrigation cycle.

Staff expert in sub-irrigation will also have to provide useful procedures to prevent the root systems of the plants from penetrating inside the drippers, impeding their flow.

FERTIGATION

The emitting tube is also suitable for fertigation, as long as water-soluble substances are used, which do not produce oxide deposits in the dripper passages (example: fertilizers containing iron microelements in ionic form).



ONEDRIP®

The super resistant dripline

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



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