

aster[®]



residential irrigation catalogue 2024



duragarden

Drip line for landscape with labyrinth dripper

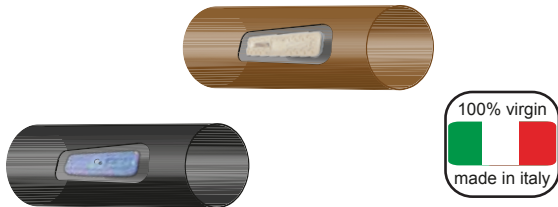


application on flat terrain



application on flat terrain

Drip line with labyrinth dripper



Series :
4016 - 4020

- Made with 100% virgin raw material
- Suitable for residential and gardening applications
- Resistant to UV and acid
- Compact dripper welded to the inner wall of the dripline during the process of extrusion
- Large turbulent flow path prevents clogging
- Excellent uniformity of emission (CV)

Drip line specification

Nominal diameter	Inside diameter	Outside diameter	Wall thickness		Max pressure
	mm	mm	MIL	mm	Bar
16	13.80	15.80	40	1.00	3.50
		16.00	44	1.10	4.00
		16.20	48	1.20	4.00
20	17.60	19.60	40	1.00	3.50
		19.80	44	1.10	4.00
		20.00	48	1.20	4.00



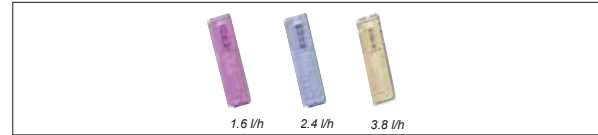
Maximum recommended length on flat terrain (m)

Nominal diameter	Inside diameter (mm)	Flow rate (l/h)									Pressure (bar)
			15	20	25	30	33	40	50		
16	13.80	1.6	80	99	116	132	141	161	188	1.0	
			92	113	133	151	161	184	215		2.0
		2.4	61	76	89	101	108	124	144	1.0	
			69	85	100	113	121	138	161		2.0
		3.8	45	56	66	75	80	92	107	1.0	
			51	63	74	84	90	102	120		2.0
20	17.60	1.6	119	147	173	197	211	241	282	1.0	
			135	168	198	225	241	276	323		2.0
		2.4	91	113	133	151	162	185	216	1.0	
			101	126	148	169	181	207	242		2.0
		3.8	67	83	98	112	120	137	160	1.0	
			75	93	110	125	134	153	179		2.0









Dripper specifications

Nominal flow rate: (l/h) 1.6 - 2.4 - 3.8
Standard spacing : (cm) 10 - 15 - 20 - 25 - 30 - 33 - 40 - 50
Special spacing : groups by request






Packaging and shipping

Nominal diameter 	16				20	
	reel (m) 	25	50	100	500	100
pallet (reels) 	small 84 100x120xh200 cm	small 50 100x120xh200 cm	small 44 114x114xh200 cm	small 10 80x160xh170 cm	small 44 114x114xh200 cm	small 10 80x160xh170 cm
	*maxi 120 100x120xh220 cm	*maxi 76 114x114xh245 cm	*maxi 60 114x114xh245 cm	*maxi 14 80x160xh240 cm	*maxi 60 114x114xh245 cm	*maxi 14 80x160xh240 cm
truck 	*22 (pallets maxi) 2.640 (reels)	*22 (pallets maxi) 1.672 (reels)	*22 (pallets maxi) 1.320 (reels)	unpacked 384 (reels)	*22 (pallets maxi) 1.320 (reels)	unpacked 384 (reels)
container 	10 (pallets small) 840 (reels)	10 (pallets small) 500 (reels)	10 (pallets small) 440 (reels)	unpacked 160 (reels)	10 (pallets small) 440 (reels)	unpacked 160 (reels)
container 	*20 (pallets maxi) 2.400 (reels)	*20 (pallets maxi) 1.520 (reels)	*20 (pallets maxi) 1.200 (reels)	unpacked 330 (reels)	*20 (pallets maxi) 1.200 (reels)	unpacked 330 (reels)

* Only full load
Indicative data

Fittings

PE starter 	4384	17
drill hole 10 mm Coupling 	4381	17
Elbow 	4380	17
Tee 	4379	17
End line 	4378	17

For other fittings see durafitting



duragarden PC AS ND

Drip line for landscape with pressure compensating dripper



irrigation on slope

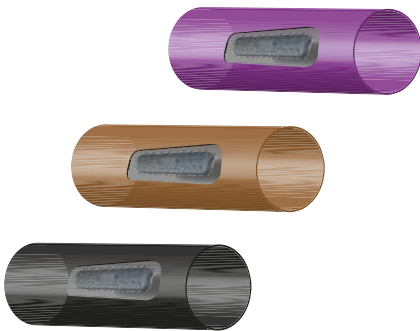


sub-irrigation



vertical garden

Drip line with pressure compensating dripper



Series :
4516 - 4520

- Made with 100% virgin raw materials
- Suitable for residential, gardening applications and vertical garden
- Resistant to UV and acid
- **no-drain ND**
The emitter closes at 0.15 (bar) to avoid water emission at the end of the irrigation cycle and to reduce the dripline filling time to the next irrigation cycle. Suitable for looping irrigation.
- **self-cleaning**
The anti-deposit silicone membrane and the large maze one guarantee the continuous cleaning of the dripper



Drip line specifications

Nominal diameter	Inside diameter	Outside diameter	Wall thickness		Max pressure
			mm	MIL	
16	13.80	15.80	40	1.00	3.50
		16.00	44	1.10	4.00
		16.20	48	1.20	4.00
20	17.60	19.60	40	1.00	3.50
		19.80	44	1.10	4.00
		20.00	48	1.20	4.00

Maximum recommended length on flat terrain (mt)


Nominal diameter	Inside diameter (mm)	Flow rate (l/h)									Pressure (bar)
			15	20	25	30	33	40	50		
16	13.80	1.6	69	88	106	122	132	153	181	1.5	
			80	101	122	141	151	176	208		2.0
			95	121	145	167	181	210	249		
		2.4	53	67	81	94	101	117	139	1.5	
			61	77	93	108	116	135	160		2.0
			72	92	111	128	138	160	190		
		3.8	39	50	60	70	75	87	103	1.5	
			45	57	69	80	86	100	119		2.0
			54	68	82	95	103	119	141		
20	17.60	1.6	99	127	154	179	193	224	267	1.5	
			114	146	177	205	221	258	307		2.0
			136	174	210	244	264	307	366		
		2.4	76	97	118	136	148	172	205	1.5	
			87	112	135	157	169	198	235		2.0
			104	133	161	187	202	235	280		
		3.8	56	72	87	101	110	128	152	1.5	
			65	83	100	116	126	146	175		2.0
			77	98	119	138	149	174	208		



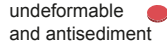
Dripper specifications

Nominal flow rate: (l/h) 1.6 - 2.4 - 3.8
Standard spacing : (cm) 10 - 15 - 20 - 25 - 30 - 33 - 40 - 50
Special spacing : groups by request







Wide labyrinth
with high
turbulence



Silicone membrane
undeformable
and antisediment







Packaging and shipping

Nominal diameter 	16				20	
	reel (m) 	25	50	100	500	100
pallet (reels) 	small 84 100x120xh200 cm	small 50 100x120xh200 cm	small 44 114x114xh200 cm	small 10 80x160xh170 cm	small 44 114x114xh200 cm	small 10 80x160xh170 cm
	*maxi 120 100x120xh220 cm	*maxi 76 114x114xh245 cm	*maxi 60 114x114xh245 cm	*maxi 14 80x160xh240 cm	*maxi 60 114x114xh245 cm	*maxi 14 80x160xh240 cm
truck 	*22 (pallets maxi) 2.640 (reels)	*22 (pallets maxi) 1.672 (reels)	*22 (pallets maxi) 1.320 (reels)	unpacked 384 (reels)	*22 (pallets maxi) 1.320 (reels)	unpacked 384 (reels)
container 	10 (pallets small) 840 (reels)	10 (pallets small) 500 (reels)	10 (pallets small) 440 (reels)	unpacked 160 (reels)	10 (pallets small) 440 (reels)	unpacked 160 (reels)
container 	*20 (pallets maxi) 2.400 (reels)	*20 (pallets maxi) 1.520 (reels)	*20 (pallets maxi) 1.200 (reels)	unpacked 330 (reels)	*20 (pallets maxi) 1.200 (reels)	unpacked 330 (reels)

* Only full load
Indicative data

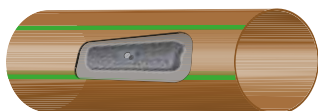
Fittings

PE starter 	4384	17
drill hole 10 mm Coupling 	4381	17
Elbow 	4380	17
Tee 	4379	17
End line 	4378	17

For other fittings see durafitting



Extra flexible drip line with pressure compensating dripper



Series :
4616






- Made with 100% virgin raw materials
- Suitable for residential and gardening applications
- Resistant to UV, acid and common agricultural chemicals
- The high thickness makes it suitable for use even on stony soils, while its great flexibility allows very tight bend without use of fittings.
- **no-drain ND**
The emitter closes at 0.15 (bar) to avoid water emission at the end of the irrigation cycle and to reduce the dripline filling time to the next irrigation cycle. Suitable for looping irrigation.
- **self-cleaning**
The anti-deposit silicone membrane and the large maze one guarantee the continuous cleaning of the dripper



Drip line specifications

nominal diameter	inside diameter (mm)	flow rate (l/h)	spacing cm	max lenght mt.	pression (bar)
16	12.00	2.4	30	76	1.5
				87	2.0
				103	3.0

Fittings

PE starter 	4095	12
foro 10 mm		
Coupling 	4094	12
Elbow 	4093	12
Tee 	4092	12
End line 	4091	12

duraring

Pressure compensating anti-siphon rings multi-outlet

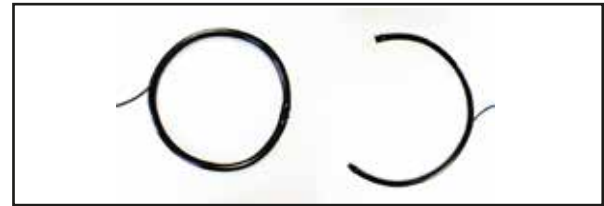


Pressure compensating anti-siphon rings multi-outlet

Series: 3700

Specification for the irrigation of crops in pot

- The high thickness of this new dripline enables the creation of the ring specific for pot irrigation.
- Made with 100% virgin raw material.
- Resistant to UV, acid and common agricultural chemicals.
- Excellent uniformity of emission (CV).
- Uniform distribution of water and nutrients thanks to the 15 cm distance between dripper, allowing homogeneous development of the root system throughout the substrate.
- Anti-siphon dripper avoids the suction of debris during the dripline discharge.
- Simple and flexible use thanks to the various possibilities of connection and diameter.
- The ring can be opened and closed easily by a removable fitting.
- Possibility to choose the flow rate and the ring diameter to customize the irrigation system to the specific crops.
- Microtube 4x6 mm standard length 100 cm, other length on request.



Technical specifications

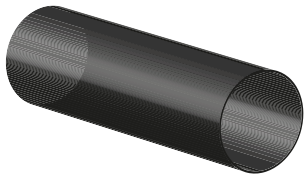
Inside diameter: 13,8 mm
Colors: black - grey - brown
Drippers spacing: 15 cm
Drippers flow rate: 1,2 - 1,6 l/h
Minimal working pressure: 0,5 bar
Maximum working pressure: 4,0 bar
Line connection: microtube 4x6 mm

Diameter and flow rate

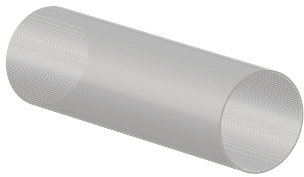
Ring diameter	Number of drippers	Dripper flow rate	Ring flow rate
cm	nr	l/h	l/h
30	6	1,20	7,20
30	6	1,60	9,60
35	7	1,20	8,40
35	7	1,60	11,20
40	8	1,20	9,60
40	8	1,60	12,80
45	9	1,20	10,80
45	9	1,60	14,40
50	10	1,20	12,00
50	10	1,60	16,00
60	12	1,20	14,40
60	12	1,60	19,20
70	14	1,20	16,80
70	14	1,60	22,40
80	16	1,20	19,20
80	16	1,60	25,60
90	18	1,20	21,60
90	18	1,60	28,80
100	20	1,20	24,00
100	20	1,60	32,00

Polyethylene pipe

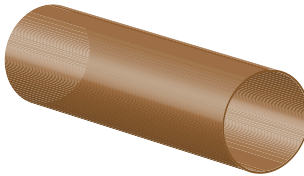
Series :
1012 - 1014 - 1016 - 1020 - 1025



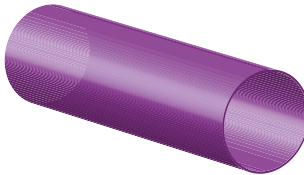
black



grey



brown



violet for non-potable water

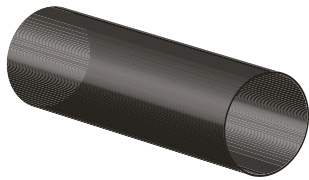
Pipe specifications

Nominal diameter	Outside diameter	Inside diameter	Wall thickness		Pressure max
	mm		MIL	mm	
12	12.00	10.00	40	1.00	3.00
		9.80	44	1.10	3.50
		9.60	48	1.20	4.00
		8.00	80	2.00	6.00
14	14.00	12.00	40	1.00	3.00
		13.80	44	1.10	3.50
		13.60	48	1.20	4.00
		10.00	80	2.00	6.00
16	16.00	14.20	36	0.90	2.50
		14.00	40	1.00	2.50
		13.80	44	1.10	3.00
		13.60	48	1.20	3.00
		13.40	52	1.30	3.30
		13.20	56	1.40	4.00
20	20.00	12.80	64	1.60	6.00
		18.20	36	0.90	2.00
		18.00	40	1.00	2.50
		17.80	44	1.10	3.00
		17.60	48	1.20	3.50
		17.40	52	1.30	3.50
		17.20	56	1.40	3.50
		17.00	60	1.50	4.00
25	25.00	16.80	64	1.60	4.00
		16.60	68	1.70	6.00
		22.60	48	1.20	4.20
		22.40	52	1.30	4.20
		22.20	56	1.40	4.80
		22.00	60	1.50	4.80
21.80	64	1.60	5.00		
21.60	68	1.70	4.00		
20.60	88	2.20	6.00		

made with 100% virgin raw material



duraflex black








Series : 1118

- Made with 100% virgin raw material
- Kink-resistant
- Flexible enough to bend in tight spaces
- Safe installation using fittings in acetal-resin

Pipe specifications

Nominal diameter	Outside diameter	Inside diameter	Wall thickness		Working pressure	Pressure max
	mm	mm	MIL	mm	Bar	Bar
18	17,50	12,50	98	2,50	8	16

Packaging and shipping

reel (mt) 	30,5
pallet (reel) 	small 76 100x120x180 cm
	*maxi 99 100x120x230 cm
truck 	*24 (pallet maxi) 2.376 (rotoli)
container 	10 (pallet small) 780 (reel)
container 	*22 (pallet maxi) 2.178 (reel)

* Only full load
Indicative data

Fittings

elbow male thread		4228	18 X 1/2"
		4227	18 X 3/4"
male thread		4230	18 X 1/2"
		4229	18 X 3/4"



duraflex blue








Series : 1115

- Made with 100% virgin raw material
- The excellent flexibility makes it suitable for installation in small spaces
- Quick installation with special fittings dedicated

Pipe specification

Nominal diameter	Outside diameter	Inside diameter	Wall thickness		Working pressure Bar	Pressure max Bar
	mm	mm	MIL	mm		
15	15,00	11,00	79	2,00	8	16

Packaging and shipping

reel (mt) 	30,5
pallet (reel) 	small 76 100x120x180 cm
	*maxi 99 100x120x230 cm
truck 	*24 (pallet maxi) 2.376 (rotoli)
container 	10 (pallet small) 780 (reel)
	container 

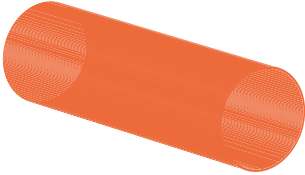
* Only full load
Indicative data

Fittings

Male interlocking elbow 	7635	15 x 1/2"
	7636	15 x 3/4"
Female interlocking elbow 	7637	15 x 1/2"
	7638	15 x 3/4"
Straight interlocking male 	7639	15 x 1/2"
	7640	15 x 3/4"



duraflex orange







Series : 1119

- Made with 100% virgin raw material
- Kink-resistant
- Flexible enough to bend in tight spaces
- Safe installation using fittings in acetal-resin

Pipe specifications



Nominal diameter	Outside diameter	Inside diameter	Wall thickness		Working pressure	Pressure max
	mm	mm	MIL	mm	Bar	Bar
18	17,50	12,50	98	2,50	8	16

Packaging and shipping

reel (mt) 	30,5
pallet (reel) 	small 76 100x120x180 cm
	*maxi 99 100x120x230 cm
truck 	*24 (pallet maxi) 2.376 (rotoli)
container 	10 (pallet small) 780 (reel)
	*22 (pallet maxi) 2.178 (reel)

* Only full load
Indicative data

Fittings

Elbow male thread adaptor 	4224	18X 1/2"
	4223	18 X 3/4"
Thread adaptor 	4222	18 X 1/2"
	4221	18 X 3/4"

