

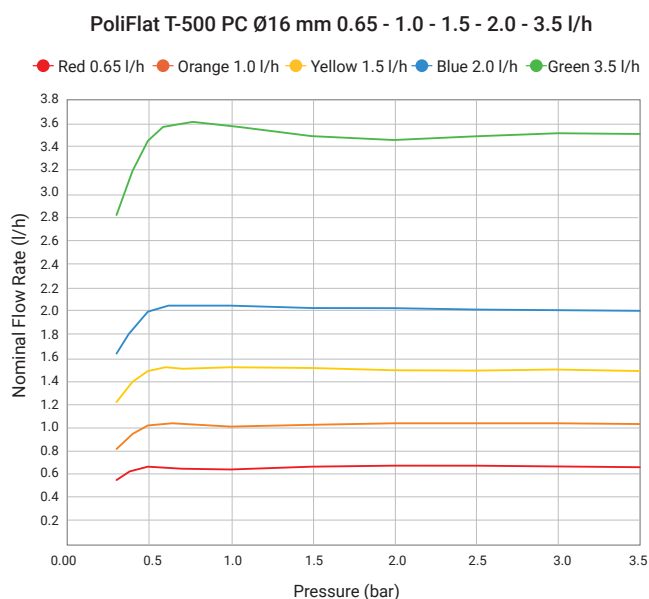
PoliFlat driplines

Used to deliver the water directly to the roots of plants. Dripline has emitters placed at intervals along the pipe which correspond with the placement of each plant. This ensures that water is delivered directly to each plant's root zone. This method of irrigation is not only very precise and efficient, but it also saves water because of low water discharge and minimized evaporation loss.



NEW PoliFlat T-500 PC/AS/ND

State-of-the-art dripper and Polixt precision manufacturing with high-quality control brings us to the very top in drip irrigation technology. With one of the widest flow regulating ranges available, PoliFlat T-500 PC/AS/ND provides outstanding uniformity even on undulating terrain or long run lengths. This helps ensure that your crop at the end of rows receives the same amount of water as that at the start for more consistent yields.



Specifications and Technical data

Size	Ø16, Ø20, Ø22 mm
Operating Pressure	0.5 - 3.5 bar (according to type)
Wall thickness	0.65 - 1.2 mm (25 - 47 mil)
Flow rates (l/h)	0.65, 1.0, 1.5, 2.0, 3.5

Features

- Exceptional clogging resistance using cutting
- Edge world-leading technology
- Max flexibility - 5x flow rates and multiple wall thickness options
- More efficient
- Clogging resistance
- Uniform crops

Dirt ingestion is a risk for all drip irrigation systems. The unique long outlet pool of the Polixt T-500, in conjunction with the raised wall design, provides the maximum distance between the emitter outlet and the tube hole to help prevent dirt suckback. The full size pool also allows a true slit outlet in all configurations.



PoliFlat T-500 PC/AS/ND

Performance and Technical data

Nominal Ø	Wall Thickness		Internal Ø	Outside Ø	Flow Rate	Operating Pressure	Product Group*			Max. Run Length (m) x Spacing Between Emitters (cm)								Roll Length
							PC	PC-AS	PC-ND	15 m	20 m	30 m	40 m	50 m	60 m	75 m	100 m	
mm	mil	mm	mm	mm	l/h	bar												
16	30	0.76	13.8	15.32	0.65	2.5	0021	1021	2021	133	172	243	308	369	425	503	624	600
					1.0	2.5	0022	1022	2022	101	130	184	234	280	322	383	474	600
					1.5	2.5	0023	1023	2023	77	100	141	179	215	248	294	365	600
					2.0	2.5	0024	1024	2024	64	82	117	149	178	206	245	303	600
					3.5	2.5	0025	1025	2025	44	57	81	103	123	142	170	210	600
	35	0.89	13.8	15.58	0.65	3.0	0031	1031	2031	144	186	263	333	399	460	545	676	500
					1.0	3.0	0032	1032	2032	109	140	199	252	302	349	414	513	500
					1.5	3.0	0033	1033	2033	83	107	152	194	232	268	318	395	500
					2.0	3.0	0034	1034	2034	69	89	126	161	193	223	264	328	500
					3.5	3.0	0035	1035	2035	47	61	87	111	134	154	183	228	500
	40	1.02	13.8	15.83	0.65	3.5	0041	1041	2041	153	198	280	355	425	490	581	721	400
					1.0	3.5	0042	1042	2042	116	149	212	269	322	371	441	547	400
					1.5	3.5	0043	1043	2043	89	114	163	206	248	286	340	421	400
					2.0	3.5	0044	1044	2044	73	95	135	171	205	237	282	350	400
					3.5	3.5	0045	1045	2045	50	65	84	118	149	178	230	276	400
	45	1.14	13.8	16.09	0.65	3.5	0051	1051	2051	153	198	280	355	425	490	581	721	300
					1.0	3.5	0052	1052	2052	116	149	212	269	322	371	441	547	300
					1.5	3.5	0053	1053	2053	89	114	163	206	248	286	340	421	300
					2.0	3.5	0054	1054	2054	73	95	135	171	205	237	282	350	300
					3.5	3.5	0055	1055	2055	50	65	84	118	149	178	230	275	300
20	35	0.89	17.6	19.38	0.65	3.0	0131	1131	2131	250	318	441	551	652	745	875	1072	350
					1.0	3.0	0132	1132	2132	189	241	334	418	495	566	665	815	350
					1.5	3.0	0133	1133	2133	145	185	257	322	381	436	512	628	350
					2.0	3.0	0134	1134	2134	120	153	213	267	316	362	426	522	350
					3.5	3.0	0135	1135	2135	83	106	148	185	220	252	296	364	350
	40	1.02	17.6	19.63	0.65	3.5	0141	1141	2141	266	339	470	588	695	795	935	1145	350
					1.0	3.5	0142	1142	2142	201	256	356	446	528	604	710	870	350
					1.5	3.5	0143	1143	2143	154	197	274	343	406	465	547	671	350
					2.0	3.5	0144	1144	2144	128	163	227	284	337	386	455	558	350
					3.5	3.5	0145	1145	2145	88	113	158	198	235	269	317	388	350
	45	1.14	17.6	19.89	0.65	3.5	0151	1151	2151	201	256	356	446	528	604	710	870	350
					1.0	3.5	0152	1152	2152	266	339	470	588	695	795	935	1145	350
					1.5	3.5	0153	1153	2153	154	197	274	343	406	465	547	671	350
					2.0	3.5	0154	1154	2154	128	163	227	284	337	386	455	558	350
					3.5	3.5	0155	1155	2155	88	113	158	198	235	269	317	388	350
	47	1.19	17.6	19.99	0.65	3.5	0161	1161	2161	266	339	470	588	695	795	935	1145	350
					1.0	3.5	0162	1162	2162	201	256	356	446	528	604	710	870	350
					1.5	3.5	0163	1163	2163	154	197	274	343	406	465	547	671	350
					2.0	3.5	0164	1164	2164	128	163	227	284	337	386	455	558	350
					3.5	3.5	0165	1165	2165	88	113	158	198	235	269	317	388	350
22	25	0.64	22.2	23.47	0.65	2.5	0211	1211	2211	386	483	656	808	946	1073	1250	1519	500
					1.0	2.5	0212	1212	2212	290	364	494	609	714	810	944	1147	500
					1.5	2.5	0213	1213	2213	223	280	380	469	550	625	728	886	500
					2.0	2.5	0214	1214	2214	185	232	316	390	457	520	606	737	500
					3.5	2.5	0215	1215	2215	129	162	221	274	321	365	426	518	500

*Product code = 29+Product Group + Spacing (for 100 put 00) PoliFlat T-500 PC d16 30mil 0.65l/h 50cm 600m Code is 29002150
PoliFlat T-500 PC d16 30mil 0.65l/h 100cm 600m Code is 29002100

PC SYSTEM (PRESSURE COMPENSATING)

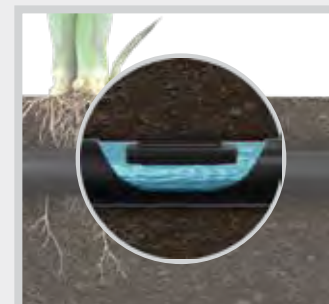
for uniform irrigation even with fluctuating pressures within the pipe



- **Application:** Sloping Terrain and Long Laterals
- Pipe drains at system shut down

AS SYSTEM (ANTI-SIPHON)

where the risk of soil ingestion at shut-off is high



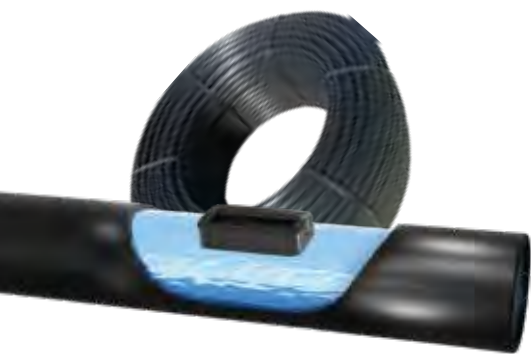
- **Application:** SDI, or On Surface with sandy soil
- Water from the pipe slowly drains reducing the suction effect of soil particles into the dripper at system shutdown

ND SYSTEM (NO DRAIN)

short and frequent irrigation cycles where the water needs to stay in the tube during shut-off



- **Application:** Pulse irrigation
- **Sealing Pressure:** 0.14 bar. Pipe remains filled with water at system shutdown.



NEW PoliFlat T-450 PC/AS

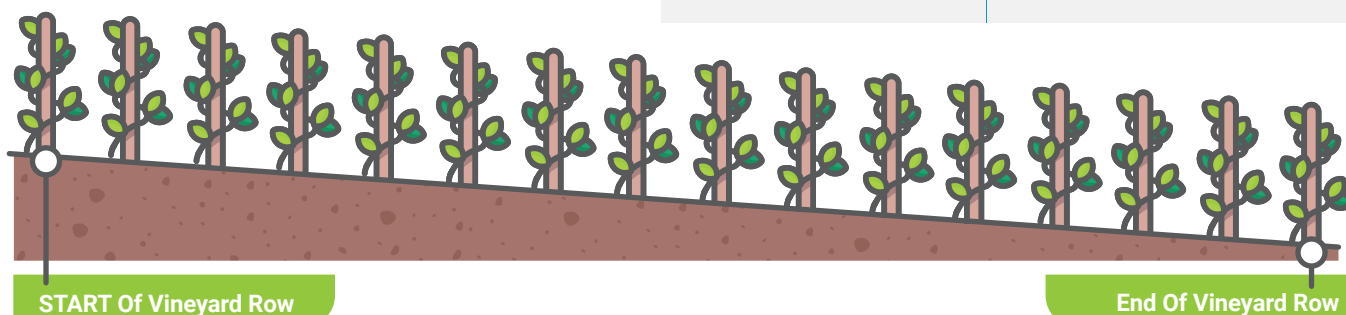
Dripline that achieve uniform flow rates over flat and sloping ground. Ensure crop uniformity over a wide range of conditions with this flow regulating drip line. For use with multi-season vegetables, orchards and vineyards on sloping ground or where extra-long run lengths are required. Available with an anti-siphon option for sandy conditions where soil-suck back is a risk.

Features

- Uniform crops
- More efficient irrigation
- Irrigate longer run lengths with uniformity

Specifications and Technical data

Size	Ø16, Ø20, Ø22 mm
Operating Pressure	0.5 - 3.5 bar (according to type)
Wall thickness	0.65 - 1.1 mm (25 - 45 mil)
Flow rates (l/h)	1.0, 2.0



Elevation: 5.0 m

Pressure: 1.5 bar (the pressure at start of lateral)

Actual flow rate for 2.0 l/h Non-PC drip line: 2.0 l/h

Actual flow rate for 2.0 l/h Polix T-450 PC/AS

T-450 PC/AS drip line: 2.0 l/h

Elevation: 0.0 m (variation -5.0 m)

Lateral length: 125 m

Pressure: 1.9 bar (increased pressure due to gravity)

Actual flow rate for 2.0 l/h Non-PC drip line: 2.5 l/h (+25%)

Actual flow rate for 2.0 l/h Polix T-450 PC/AS

T-450 PC/AS drip line: 2.0 l/h (constant)

PoliFlat T-450 PC/AS Performance and Technical data

Nominal Ø	Wall Thickness		Internal Ø	Flow Rate	Max Operating Pressure	Dripline Coiling	Product Group**		Max. Run Length (m) x Spacing Between Emitters (cm) on Flat Ground										Roll Length*
							PC	PC-AS	15	20	30	40	50	60	70	75	100		
mm	mil	mm	mm	l/h	bar				m	m	m	m	m	m	m	m	m	m	
16	35	0.89	14.2	1.0	3.0	Flat	4031	5031	116	149	211	268	320	268	414	437	539	450 (≥30cm)	
				2.0	3.0		4032	5032	73	95	134	170	204	235	265	278	346		
	40	1.02		1.0	3.5	Round	4041	5041	124	159	225	285	341	393	442	466	576	500 (≥15cm)	
				2.0	3.5		4042	5042	78	101	143	182	218	251	282	297	369		
20	40	1.02	17.5	1.0	3.5	Round	4131	5131	209	264	364	452	533	608	678	712	869	400 (≥15cm)	
				2.0	3.5		4132	5132	133	168	232	289	341	389	434	456	558		
	45	1.14		1.0	3.5	Round	4141	5141	209	264	364	452	533	608	678	712	869	400 (≥15cm)	
				2.0	3.5		4142	5142	133	168	232	289	341	389	434	456	558		
22	25	0.64	22.2	1.0	2.5	Flat	4211	5211	237	299	410	508	598	680	758	796	970	Consult	
				2.0	2.5		4212	5212	151	190	262	325	382	436	486	510	622		

* Roll length according to emitter spacing

**Product code = 29+Product Group + Spacing (for 100 put 00) PoliFlat T-450 PC d16 30mil 1.00l/h 50cm 450m Code is 29403150

PoliFlat T-450 PC d16 30mil 1.00l/h 100cm 450m Code is 29403100

PC SYSTEM

(PRESSURE COMPENSATING)

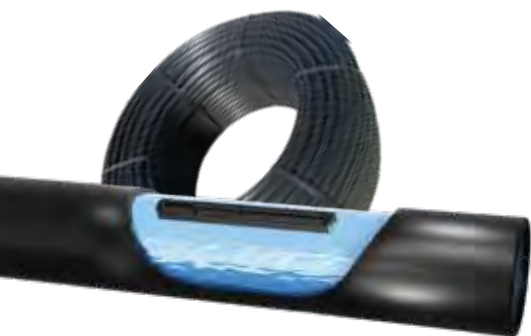
for uniform irrigation even with fluctuating pressures within the pipe

- **Application:** Sloping Terrain and Long Laterals
- Pipe drains at system shut down

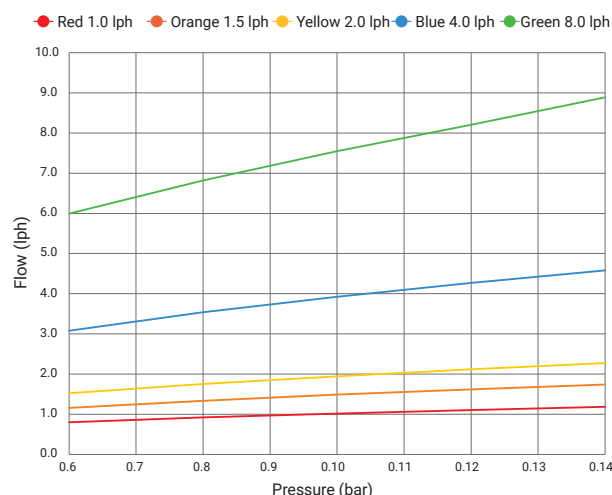
AS SYSTEM (ANTI-SIPHON)

where the risk of soil ingestion at shut-off is high

- **Application:** SDI, or On Surface with sandy soil
- Water from the pipe slowly drains reducing the suction effect of soil particles into the dripper at system shutdown



PoliFlat T-200 Flow Chart



*Flow rates based on 16/40 configurations. Flow rates for alternative configurations available upon request.

PoliFlat T-200 Non-PC

Performance and Technical data

Maximum Drip Line Length / Maximum Flow Rate Variation: 10 % / Working Pressure 1 bar / Slope: 0 %																
Nominal Ø	Wall Thickness		Internal Ø	Flow Rate*	Max Operating Pressure	Product Group**	Max. Run Length (m) x Spacing Between Emitters (cm) on Flat Ground								Roll Length	
							20	25	30	33	40	50	60	75		100
mm	mil		mm	l/h	bar	T-200	m	m	m	m	m	m	m	m	m	m
16	30	0.76	13.8	1.00	2.5	7021	81	95	108	116	132	152	173	201	243	600
				1.50	2.5	7022	62	73	83	88	101	118	133	152	186	
				2.00	2.5	7023	51	60	69	73	84	98	110	128	153	
				4.00	2.5	7024	33	38	44	47	54	62	70	82	99	
	35	0.89		1.00	3.0	7031	79	93	105	113	128	150	169	196	236	500
				1.50	3.0	7032	61	72	82	88	100	116	131	152	184	
				2.00	3.0	7033	52	61	69	74	85	98	111	128	155	
				4.00	3.0	7034	33	39	44	47	54	63	71	83	100	
	40	1.02		1.00	3.0	7041	81	95	106	115	131	152	172	200	242	400
				1.50	3.0	7042	62	72	82	88	100	117	132	152	185	
				1.95	3.0	7043	52	62	70	75	85	100	112	131	157	
				3.95	3.0	7044	33	39	45	48	54	64	72	83	101	
	45	1.14		7.55	3.0	7045	22	26	29	31	36	42	47	55	66	400
				1.00	3.0	7051	82	96	109	117	133	155	175	203	245	
				1.50	3.0	7052	62	73	83	88	101	117	133	152	185	
				1.95	3.0	7053	52	62	70	75	85	100	112	131	157	
20	35	0.89	17.6	3.95	3.0	7054	33	39	44	47	54	63	71	82	99	400
				8.20	3.0	7055	20	24	27	29	33	39	44	51	62	
	40	1.02		1.00	3.0	7121	125	147	166	177	202	235	254	294	369	550
				2.00	3.0	7122	82	96	108	116	132	152	172	200	241	
				1.00	3.0	7131	121	142	161	172	196	227	257	297	353	450
				1.95	3.0	7132	80	94	106	114	130	151	170	197	237	
				3.95	3.0	7133	52	61	68	73	83	97	109	127	153	
				7.70	3.0	7134	63	73	82	88	100	117	131	152	183	

*Nominal Flow Rate at 1 bar pressure

**Product code = 29+Product Group + Spacing (for 100 put 00) PoliFlat T-200 d16 30mil 1.00l/h 50cm 600m Code is 29702150

PoliFlat T-200 d16 30mil 1.00l/h 100cm 600m Code is 29702100