



PYTHON™

INTEGRAL DRIPPER

22080 - 22100 - 22135 - 22150

APPLICATIONS:

- Row crops irrigation

SPECIFICATIONS:

- Recommended filtration: 130 micron / 120 mesh
- TurboNet™ labyrinth with large water passage.
- To be “welded” into a thin/medium-walled dripperlines (0.20 , 0.25 , 0.34 and 0.38 mm).
- Injected dripper, very low CV.
- UV resistant . Resistant to standard nutrients used in agricultural
- Python™ drippers meet ISO 9261 Standards with production certified by the Israel Standards Institute (SII)

FEATURES AND BENEFITS:

- Largest filter in each dripper. Wide filtration area to ensure optimal performance .
- TurboNet™ labyrinth assures wide water passages, large deep and wide cross section improves clogging resistance. Widest water passages within the dripper.
- The water is drawn in to the dripper from the stream center, preventing the entrance of sediments in to the drippers.
- Injection molded dripper construction , ensuring uniform drippers and very low CV

DRIPPERS TECHNICAL DATA

22080 - 0.20 mm. wall thickness dripperlines

FLOW RATE* (L/H.)	MAX. WORKING PRESSURE (BAR)**	WATER PASSAGES DIMENSIONS WIDTH-DEPTH-LENGTH (MM.)	FILTRATION AREA (MM ²)	CONSTANT K	EXPONENT X	RECOMMENDED FILTRATION (MICRON)/(MESH)
0.80	0.8	0.64 x 0.39 x 23	29	0.284	0.45	130/120
1.10	0.8	0.64 x 0.50 x 23	29	0.390	0.45	130/120
1.65	0.8	0.79 x 0.60 x 23	34	0.546	0.48	130/120
2.70	0.8	0.89 x 0.85 x 23	34	0.894	0.48	130/120

* Flow rate at 1.0 bar pressure

22100 - 0.25 mm. wall thickness dripperlines

0.80	1.0	0.64 x 0.39 x 23	29	0.284	0.45	130/120
1.10	1.0	0.64 x 0.50 x 23	29	0.390	0.45	130/120
1.60	1.0	0.79 x 0.60 x 23	34	0.529	0.48	130/120
2.70	1.0	0.89 x 0.85 x 23	34	0.894	0.48	130/120

* Flow rate at 1.0 bar pressure

22135 & 22150 – 0.34 & 0.38 mm. wall thickness dripperlines

0.80	1.5/1.8	0.64 x 0.39 x 23	29	0.284	0.45	130/120
1.05	1.5/1.8	0.64 x 0.50 x 23	29	0.373	0.45	130/120
1.65	1.5/1.8	0.79 x 0.60 x 23	34	0.546	0.48	130/120
2.70	1.5/1.8	0.89 x 0.85 x 23	34	0.894	0.48	130/120

*Flow rate at 1.0 bar pressure **According to dripperlines wall thickness

DRIPPERLINES TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM.)	WALL THICKNESS (MM.)	OUTSIDE DIAMETER (MM.)	MAX. WORKING PRESSURE (BAR)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
22080	22.20	0.20	22.60	0.8	0.9	0.03
22100	22.20	0.25	22.70	1.0	1.2	0.03
22135	22.20	0.34	22.88	1.5	1.7	0.03
22150	22.20	0.38	22.96	1.8	2.1	0.03

DRIPPERLINES PACKAGE DATA (ON CARTON COILS)

MODEL	WALL THICKNESS (MM.)	COIL LENGTH (M.)	DISTANCE BETWEEN DRIPPERS (M.)	AVERAGE* COIL WEIGHT (KG.)	COILS PER PALLET (UNITS)	COILS IN A 40 FEET CONTAINER (UNITS)	TOTAL IN A 40 FEET CONTAINER (M.)
22080	0.20	1400	0.10 to 0.25	21.5	16	640	896000
		1600	0.30 to 1.00	23.4			1024000
22100	0.25	1200	0.10 to 0.25	22.7	16	640	768000
		1400	0.30 to 1.00	25.3			896000
22135	0.34	1100	0.10 to 0.25	27.4	16	640	704000
		1200	0.30 to 1.00	28.9			768000
22150	0.38	900	0.10 to 0.25	26.0	16	640	576000
		1000	0.30 to 1.00	26.9			640000

*According to drippers spacing

MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

PYTHON™ • 22080 • ID 22.2 MM • KD 0.03 • FLOW RATE 0.80 L/H • INLET PRESSURE 0.8 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	84	87	88	89	89	90	90
	1%	136	151	160	165	169	172	173
FLAT TERRAIN	0	228	299	362	418	471	521	568
	-1%	324	471	211	189	181	176	174
DOWNHILL	-2%	91	86	85	85	84	84	83

MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

PYTHON™ • 22080 • ID 22.2 MM • KD 0.03 • FLOW RATE 1.10 L/H • INLET PRESSURE 0.8 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	81	85	87	88	89	89	90
	1%	122	140	151	158	163	167	169
FLAT TERRAIN	0	186	244	295	342	385	426	464
	-1%	249	356	463	240	198	187	182
DOWNHILL	-2%	102	89	87	86	85	84	84

MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

PYTHON™ • 22080 • ID 22.2 MM • KD 0.03 • FLOW RATE 1.65 L/H • INLET PRESSURE 0.8 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	67	72	74	76	77	77	78
	1%	97	113	124	131	136	140	143
FLAT TERRAIN	0	138	181	218	253	284	314	343
	-1%	178	251	323	395	467	225	192
DOWNHILL	-2%	221	92	85	83	81	81	80

MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

PYTHON™ • 22080 • ID 22.2 MM • KD 0.03 • FLOW RATE 2.70 L/H • INLET PRESSURE 0.8 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	60	67	70	73	74	75	76
	1%	78	94	106	115	121	127	130
FLAT TERRAIN	0	100	132	159	185	208	230	250
	-1%	122	169	214	259	302	347	390
DOWNHILL	-2%	144	209	108	91	86	84	82

MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

PYTHON™ • 22100 • ID 22.2 MM • KD 0.03 • FLOW RATE 0.80 L/H • INLET PRESSURE 1.0 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	101	106	108	110	111	111	111
	1%	152	175	188	197	203	207	210
FLAT TERRAIN	0	232	304	367	426	479	529	578
	-1%	310	442	575	308	248	235	227
DOWNHILL	-2%	128	112	108	107	106	106	105

MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

PYTHON™ • 22100 • ID 22.2 MM • KD 0.03 • FLOW RATE 1.10 L/H • INLET PRESSURE 1.0 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	95	102	106	108	109	110	110
	1%	135	158	174	184	192	198	202
FLAT TERRAIN	0	189	248	300	348	391	433	471
	-1%	240	338	435	532	629	287	252
DOWNHILL	-2%	299	121	112	109	107	106	106

MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

PYTHON™ • 22100 • ID 22.2 MM • KD 0.03 • FLOW RATE 1.60 L/H • INLET PRESSURE 1.0 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	79	86	90	93	94	95	96
	1%	106	127	141	152	160	165	170
FLAT TERRAIN	0	142	186	226	261	294	325	354
	-1%	177	247	314	381	447	513	580
DOWNHILL	-2%	212	311	115	108	104	103	102

MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

PYTHON™ • 22100 • ID 22.2 MM • KD 0.03 • FLOW RATE 2.70 L/H • INLET PRESSURE 1.0 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	67	77	82	87	89	91	92
	1%	83	102	116	127	136	144	150
FLAT TERRAIN	0	102	133	161	187	211	232	254
	-1%	119	164	206	248	287	327	366
DOWNHILL	-2%	137	195	254	313	122	113	109

MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

PYTHON™ • 22135 • ID 22.2 MM • KD 0.03 • FLOW RATE 0.80 L/H • INLET PRESSURE 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
	SLOPE	0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	134	147	154	158	161	162	164
	1%	179	215	239	257	271	281	290
FLAT TERRAIN	0	238	313	378	438	494	545	595
	-1%	292	407	519	630	740	851	962
DOWNHILL	-2%	352	517	180	170	165	163	161

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

PYTHON™ • 22135 • ID 22.2 MM • KD 0.03 • FLOW RATE 1.10 L/H • INLET PRESSURE 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
	SLOPE	0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	123	139	148	153	157	159	161
	1%	158	192	217	236	251	263	272
FLAT TERRAIN	0	200	263	318	369	415	459	500
	-1%	237	329	416	501	586	669	754
DOWNHILL	-2%	279	403	236	183	173	168	165

MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

PYTHON™ • 22135 • ID 22.2 MM • KD 0.03 • FLOW RATE 1.60 L/H • INLET PRESSURE 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
	SLOPE	0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	97	112	122	128	132	135	138
	1%	120	147	168	185	199	210	219
FLAT TERRAIN	0	145	191	230	267	301	333	362
	-1%	169	232	292	349	406	461	516
DOWNHILL	-2%	193	275	356	437	199	175	166

MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

PYTHON™ • 22135 • ID 22.2 MM • KD 0.03 • FLOW RATE 2.70 L/H • INLET PRESSURE 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
	SLOPE	0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	78	94	104	113	118	123	126
	1%	90	114	132	148	161	172	182
FLAT TERRAIN	0	104	136	165	191	215	238	259
	-1%	116	158	196	233	269	303	338
DOWNHILL	-2%	128	179	228	276	324	372	420

MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

PYTHON™ • 22150 • ID 22.2 MM • KD 0.03 • FLOW RATE 0.80 L/H • INLET PRESSURE 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	134	147	154	158	161	162	164
	1%	179	215	239	257	271	281	290
FLAT TERRAIN	0	238	313	378	438	494	545	595
	-1%	292	407	519	630	740	851	962
DOWNHILL	-2%	352	517	180	170	165	163	161

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

PYTHON™ • 22150 • ID 22.2 MM • KD 0.03 • FLOW RATE 1.05 L/H • INLET PRESSURE 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	123	139	148	153	157	159	161
	1%	158	192	217	236	251	263	272
FLAT TERRAIN	0	200	263	318	369	415	459	500
	-1%	237	329	416	501	586	669	754
DOWNHILL	-2%	279	403	236	183	173	168	165

MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

PYTHON™ • 22150 • ID 22.2 MM • KD 0.03 • FLOW RATE 1.65 L/H • INLET PRESSURE 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	96	111	121	127	131	134	137
	1%	118	145	166	183	196	208	217
FLAT TERRAIN	0	142	187	226	262	295	326	355
	-1%	165	227	285	341	395	449	502
DOWNHILL	-2%	188	268	346	425	212	178	168

MAX. LATERAL LENGTH (METERS) AT DIFFERENT SLOPES - 10% FLOW VARIATION

PYTHON™ • 22150 • ID 22.2 MM • KD 0.03 • FLOW RATE 2.70 L/H • INLET PRESSURE 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)						
SLOPE		0.20	0.30	0.40	0.50	0.60	0.70	0.80
UPHILL	2%	78	94	104	113	118	123	126
	1%	90	114	132	148	161	172	182
FLAT TERRAIN	0	104	136	165	191	215	238	259
	-1%	116	158	196	233	269	303	338
DOWNHILL	-2%	128	179	228	276	324	372	420