



TYPHOON PLUS™

INTEGRAL DRIPPER

12080 - 12100 - 12125 - 12150 - 16080- 16100 - 16125 - 16150 - 22080
22100 - 22125 - 22135 - 22150 - 25080 - 25100 - 25125 - 25135 - 25150

TECHNICAL INFORMATION

- 5 different flow rates.
- Maximum system pressure: according to dripperlines diameters and wall thickness.
- Recommended filtration: according to dripper flow rate.
Filtration method to be selected based on the kind and concentration of the contaminants existing in the water.
Wherever sand exceeding 2 ppm exists in the water, a Hydrocyclon should be installed before the main filter.
When sand / silt / clay exceed 100 ppm, pre-treatment should be applied according to Netafim™ expert team's instructions.
- Wide range of diameters and wall thicknesses.
Diameter: from 12.0 to 25.0 mm.
Wall thickness: from 0.20 to 0.40 mm (8 to 15 mil).
- Injected dripper, very low CV.
- High UV resistant.
- Resistant to standard nutrients used in agricultural.

DRIPPERS TECHNICAL DATA

FLOW RATE* (L/H)	MAXIMUM WORKING PRESSURE** (BAR)	WATER PASSAGES DIMENSIONS WIDTH-DEPTH-LENGTH (MM)	FILTRATION AREA (MM ²)	CONSTANT K	EXPONENT X	RECOMMENDED FILTRATION (MICRON)/(MESH)
0.50	0.6 up to 3.0	0.45 x 0.45 x 34	21	0.177	0.45	130/120
0.70		0.52 x 0.51 x 34	22	0.247	0.45	130/120
1.00		0.60 x 0.59 x 34	24	0.355	0.45	200/80
1.60		0.66 x 0.63 x 18	24	0.567	0.45	200/80
2.20		0.77 x 0.72 x 18	24	0.780	0.45	200/80

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

FLOW RATE (L/H) VS. PRESSURE (BAR)

FLOW RATE* (L/H)	PRESSURE (BAR)									
	0.4	0.7	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.0
0.50	0.33	0.42	0.50	0.56	0.62	0.67	0.71	0.75	0.79	0.82
0.70	0.46	0.59	0.70	0.78	0.86	0.93	0.99	1.05	1.11	1.14
1.00	0.66	0.85	1.00	1.13	1.24	1.34	1.43	1.51	1.59	1.64
1.60	1.06	1.36	1.60	1.80	1.97	2.13	2.28	2.41	2.54	2.62
2.20	1.46	1.87	2.20	2.47	2.72	2.93	3.13	3.32	3.49	3.60

*Nominal flow rate at 1.0 bar pressure

DRIPPERLINES TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	MAX. FLUSHING PRESSURE (BAR)	KD
12080	11.80	0.20	12.20	1.7	2.0	0.20
12100	11.80	0.25	12.30	2.0	2.3	0.20
12125	11.80	0.31	12.42	2.5	2.9	0.20
12150	11.80	0.38	12.56	3.0	3.5	0.20
16080	16.20	0.20	16.60	1.0	1.2	0.10
16100	16.20	0.25	16.70	1.4	1.6	0.10
16125	16.20	0.31	16.82	1.8	2.1	0.10
16150	16.20	0.38	16.96	2.2	2.5	0.10
22080	22.20	0.20	22.60	0.8	0.9	0.02
22100	22.20	0.25	22.70	1.1	1.3	0.02
22125	22.20	0.31	22.82	1.4	1.6	0.02
22135	22.20	0.34	22.88	1.5	1.7	0.02
22150	22.20	0.38	22.96	1.8	2.1	0.02
25080	25.00	0.20	25.40	0.6	0.7	0.01
25100	25.00	0.25	25.50	0.8	0.9	0.01
25125	25.00	0.31	25.62	1.0	1.2	0.01
25135	25.00	0.34	25.68	1.2	1.4	0.01
25150	25.00	0.38	25.76	1.4	1.6	0.01

DRIPPERLINES PACKAGE DATA (ON CARTON COILS)

MODEL	WALL THICKNESS (MM)	DISTANCE BETWEEN DRIPPERS (M)	COIL LENGTH (M)	AVERAGE* COIL WEIGHT (KG)	COILS P/PALLET (UNITS)	COILS IN A 40 FEET CONTAINER (UNITS)	TOTAL IN A 40 FEET CONTAINER (M)
12080	0.20	0.15 to 0.25	2500	21.4	16	640	1600000
		0.30 to 1.00	2800	22.9			1792000
12100	0.25	0.15 to 0.25	1800	18.9	16	640	1152000
		0.30 to 1.00	2000	20.2			1280000
12125	0.31	0.15 to 0.25	1200	15.6	16	640	768000
		0.30 to 1.00	1300	16.3			832000
12150	0.38	0.15 to 0.25	1100	17.2	16	640	704000
		0.30 to 1.00	1100	16.8			704000
16080	0.20	0.15 to 0.25	2400	26.9	16	640	1536000
		0.30 to 1.00	2500	27.1			1600000
16100	0.25	0.15 to 0.25	1900	26.2	16	640	1216000
		0.30 to 1.00	2000	26.9			1280000
16125	0.31	0.15 to 0.25	1350	26.2	16	640	864000
		0.30 to 1.00	1600	26.5			1024000
16150	0.38	0.15 to 0.25	1200	26.5	16	640	768000
		0.30 to 1.00	1300	26.0			832000
22080	0.20	0.15 to 0.25	1500	26.9	16	640	960000
		0.30 to 1.00	1700	27.6			1088000
22100	0.25	0.15 to 0.25	1200	25.8	16	640	768000
		0.30 to 1.00	1500	27.1			960000
22125	0.31	0.15 to 0.25	1100	27.1	16	640	704000
		0.30 to 1.00	1200	26.7			768000
22135	0.34	0.15 to 0.25	1100	27.2	16	640	704000
		0.30 to 1.00	1100	26.8			704000
22150	0.38	0.15 to 0.25	1000	27.6	16	640	640000
		0.30 to 1.00	1000	27.2			640000
25080	0.20	0.15 to 0.25	1600	26.2	16	640	1024000
		0.30 to 1.00	1700	27.7			1088000
25100	0.25	0.15 to 0.25	1300	26.8	16	640	832000
		0.30 to 1.00	1300	26.3			832000
25125	0.31	0.15 to 0.25	1000	25.4	16	640	640000
		0.30 to 1.00	1100	27.4			704000
25135	0.34	0.15 to 0.25	900	25.0	16	640	576000
		0.30 to 1.00	1000	27.3			640000
25150	0.38	0.15 to 0.25	900	27.7	16	640	576000
		0.30 to 1.00	900	27.4			576000

*According to drippers spacing

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

TYPHOON PLUS™ • 12 MM • ID 11.8 MM • KD 0.20 • FLOW RATE 0.50 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	0.90	1.00
UPHILL	2%	80	98	112	122	129	135	139	144	147
	1%	90	116	137	155	170	182	194	204	213
FLAT TERRAIN	0	102	136	166	194	220	244	266	288	309
	-1%	110	152	191	228	264	299	333	366	400
DOWNHILL	-2%	120	170	219	267	314	362	410	457	506

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

TYPHOON PLUS™ • 12 MM • ID 11.8 MM • KD 0.20 • FLOW RATE 0.70 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	0.90	1.00
UPHILL	2%	68	85	98	108	116	123	128	133	136
	1%	75	97	115	131	144	157	167	176	186
FLAT TERRAIN	0	82	110	134	157	178	197	215	233	250
	-1%	87	120	150	179	206	232	258	284	308
DOWNHILL	-2%	94	132	168	204	238	272	306	340	375

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

TYPHOON PLUS™ • 12 MM • ID 11.8 MM • KD 0.20 • FLOW RATE 1.00 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	0.90	1.00
UPHILL	2%	56	71	83	93	101	108	114	119	123
	1%	60	79	94	108	119	130	140	149	158
FLAT TERRAIN	0	65	87	107	125	141	156	171	185	198
	-1%	68	93	116	138	158	178	197	216	234
DOWNHILL	-2%	72	101	127	153	178	202	227	251	275

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

TYPHOON PLUS™ • 12 MM • ID 11.8 MM • KD 0.20 • 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	0.90	1.00
UPHILL	2%	43	56	66	75	82	89	94	99	104
	1%	45	60	72	83	93	102	110	117	124
FLAT TERRAIN	0	48	65	79	93	105	116	126	138	147
	-1%	50	68	84	99	113	127	141	154	166
DOWNHILL	-2%	52	72	90	108	124	141	157	173	188

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

TYPHOON PLUS™ • 12 MM • ID 11.8 MM • KD 0.20 • FLOW RATE 2.20 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	0.90	1.00
UPHILL	2%	36	47	56	63	70	76	82	86	91
	1%	37	50	60	69	77	85	93	99	105
FLAT TERRAIN	0	39	53	64	76	85	95	104	113	120
	-1%	40	55	68	80	91	102	113	122	133
DOWNHILL	-2%	41	57	72	85	98	111	123	135	147

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

TYPHOON PLUS™ • 16 MM • ID 16.2 MM • KD 0.10 • FLOW RATE 0.50 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	0.90	1.00
UPHILL	2%	117	134	144	150	154	158	159	161	162
	1%	146	180	205	225	241	253	264	272	279
FLAT TERRAIN	0	180	239	291	338	382	424	462	500	536
	-1%	209	292	372	449	525	601	676	752	827
DOWNHILL	-2%	241	352	464	198	179	172	167	165	163

*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

TYPHOON PLUS™ • 16 MM • ID 16.2 MM • KD 0.10 • FLOW RATE 0.70 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	0.90	1.00
UPHILL	2%	103	121	133	141	146	151	154	156	159
	1%	123	154	178	198	214	227	238	248	256
FLAT TERRAIN	0	145	193	235	274	309	342	374	404	433
	-1%	163	227	286	344	400	456	510	565	619
DOWNHILL	-2%	184	265	345	425	506	195	181	175	170

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

TYPHOON PLUS™ • 16 MM • ID 16.2 MM • KD 0.10 • FLOW RATE 1.00 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	0.90	1.00
UPHILL	2%	88	106	119	128	135	141	145	148	151
	1%	101	128	150	168	183	196	208	219	227
FLAT TERRAIN	0	115	153	186	217	245	272	297	320	344
	-1%	126	174	218	261	301	342	381	419	458
DOWNHILL	-2%	139	197	254	310	365	421	478	224	194

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

TYPHOON PLUS™ • 16 MM • ID 16.2 MM • KD 0.10 • 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	0.90	1.00
UPHILL	2%	70	87	99	110	117	124	129	134	138
	1%	77	100	118	134	147	159	170	179	188
FLAT TERRAIN	0	85	113	138	161	182	202	220	239	255
	-1%	91	124	155	184	212	239	265	291	316
DOWNHILL	-2%	98	137	174	211	246	281	316	351	386

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

TYPHOON PLUS™ • 16 MM • ID 16.2 MM • KD 0.10 • FLOW RATE 2.20 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	0.90	1.00
UPHILL	2%	59	74	86	96	104	111	117	122	126
	1%	64	83	99	113	125	136	146	155	163
FLAT TERRAIN	0	69	92	113	132	149	165	180	194	209
	-1%	73	99	124	147	168	189	209	229	248
DOWNHILL	-2%	78	108	136	164	190	216	242	268	293

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

TYPHOON PLUS™ • 22 MM • ID 22.2 MM • KD 0.02 • FLOW RATE 0.50 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	0.90	1.00
UPHILL	2%	149	157	161	164	165	166	166	167	167
	1%	220	254	275	289	299	306	311	316	318
FLAT TERRAIN	0	327	427	515	595	670	740	806	870	931
	-1%	430	608	785	964	403	365	350	340	335
DOWNHILL	-2%	211	171	164	162	160	159	158	158	157

*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

TYPHOON PLUS™ • 22 MM • ID 22.2 MM • KD 0.02 • FLOW RATE 0.70 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	0.90	1.00
UPHILL	2%	139	151	157	160	162	164	165	166	166
	1%	192	227	251	268	280	290	297	302	307
FLAT TERRAIN	0	264	345	416	482	542	599	652	704	753
	-1%	330	461	588	716	842	971	425	380	361
DOWNHILL	-2%	405	194	172	166	163	161	160	159	159

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

TYPHOON PLUS™ • 22 MM • ID 22.2 MM • KD 0.02 • FLOW RATE 1.00 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	0.90	1.00
UPHILL	2%	126	141	149	154	158	160	162	163	164
	1%	163	197	222	240	254	266	276	284	290
FLAT TERRAIN	0	209	274	330	382	430	475	518	559	597
	-1%	250	345	436	526	614	702	790	879	969
DOWNHILL	-2%	296	427	206	179	170	167	164	162	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

TYPHOON PLUS™ • 22 MM • ID 22.2 MM • KD 0.02 • 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	0.90	1.00
UPHILL	2%	107	124	135	143	148	151	154	157	159
	1%	129	160	183	202	217	230	242	250	259
FLAT TERRAIN	0	155	203	245	284	319	353	384	415	444
	-1%	177	241	302	360	418	474	530	585	640
DOWNHILL	-2%	201	284	366	449	232	190	178	173	169

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

TYPHOON PLUS™ • 22 MM • ID 22.2 MM • KD 0.02 • FLOW RATE 2.20 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	0.90	1.00
UPHILL	2%	94	111	123	132	139	144	147	150	153
	1%	109	137	158	176	191	204	215	225	234
FLAT TERRAIN	0	127	166	200	232	260	288	314	338	363
	-1%	141	191	237	282	325	367	409	450	490
DOWNHILL	-2%	157	219	279	339	398	459	519	198	185

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

TYPHOON PLUS™ • 25 MM • ID 25.0 MM • KD 0.01 • FLOW RATE 0.50 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	0.90	1.00
UPHILL	2%	109	110	111	112	112	113	112	113	113	
	1%	192	206	212	216	218	220	221	221	222	
FLAT TERRAIN	0	393	512	616	712	800	883	962	1038	1110	
	-1%	633	238	224	218	215	214	212	212	211	
DOWNHILL	-2%	108	106	105	105	104	104	104	104	104	

*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

TYPHOON PLUS™ • 25 MM • ID 25.0 MM • KD 0.01 • FLOW RATE 0.70 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	0.90	1.00
UPHILL	2%	107	110	110	111	112	112	112	113	113	
	1%	178	195	204	210	214	216	218	220	220	
FLAT TERRAIN	0	318	414	498	575	647	714	778	840	898	
	-1%	471	682	242	228	221	218	215	214	213	
DOWNHILL	-2%	111	107	106	106	105	104	105	104	104	

*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

TYPHOON PLUS™ • 25 MM • ID 25.0 MM • KD 0.01 • FLOW RATE 1.00 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	0.90	1.00
UPHILL	2%	103	107	109	111	111	111	111	112	112	
	1%	159	180	192	201	206	209	213	214	216	
FLAT TERRAIN	0	252	328	395	457	514	567	618	666	713	
	-1%	346	492	639	261	238	228	223	220	218	
DOWNHILL	-2%	120	110	108	107	106	105	105	104	104	

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

TYPHOON PLUS™ • 25 MM • ID 25.0 MM • KD 0.01 • 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	0.90	1.00
UPHILL	2%	94	102	105	108	109	110	110	111	112	
	1%	134	156	172	183	190	197	201	204	207	
FLAT TERRAIN	0	187	244	294	339	381	421	458	494	529	
	-1%	237	331	422	514	606	699	259	243	234	
DOWNHILL	-2%	295	123	113	110	108	107	106	105	105	

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

TYPHOON PLUS™ • 25 MM • ID 25.0 MM • KD 0.01 • FLOW RATE 2.20 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	0.90	1.00
UPHILL	2%	87	97	102	105	107	108	109	110	110	
	1%	116	139	155	167	176	183	189	194	198	
FLAT TERRAIN	0	153	199	239	277	311	344	374	404	432	
	-1%	185	256	324	391	457	524	590	658	289	
DOWNHILL	-2%	222	322	124	115	112	109	108	107	106	