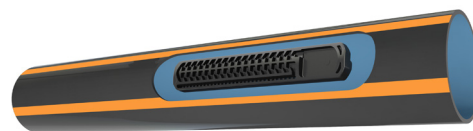




ARIES™ TWD

INTEGRAL DRIPPER



16125 - 16150 - 22125 – 22135 -22150

TECHNICAL INFORMATION

- Maximum system pressure: according to dripperlines wall thickness.
- Recommended filtration: according to drippers flow rates.
Filtration method is to be selected based on the kind and concentration of the dirt particles existing in the water. Wherever sand exceeding 2 ppm exists in the water, a Hydrocyclone is to be installed before the main filter. When sand/silt/clay solids exceed 100 ppm, pre treatment will be applied according to Netafim™ expert team's instructions.
- TurbuNext™ labyrinth with superior clogging resistance..
- To be "welded" into medium-walled dripperlines (0.31, 0.34, 0.38 mm).
- Injected dripper, very low CV.
- High UV resistant.
- Resistant to standard nutrients used in agricultural.
- Aries™ dripperlines meet ISO 9261 Standards with production certified by the Israel Standards Institute (SII).

DRIPPERS TECHNICAL DATA

12125, 12150, 16125, 16150, 22135, 22150 - 0.31, 0.34 and 0.38 mm wall thickness dripperlines

FLOW RATE* (L/H)	MAXIMUM WORKING PRESSURE (BAR)**	WATER PASSAGES DIMENSIONS WIDTH-DEPTH-LENGTH (MM)	FILTRATION AREA (MM²)	CONSTANT K	EXPONENT X	RECOMMENDED FILTRATION (MICRON)/(MESH)
0.50	1.5 up to 3.0	0.47 x 0.53 x 65	36	0.173	0.46	130/120
0.80		0.54 x 0.69 x 65	43	0.277	0.46	130/120
0.95		0.60 x 0.74 x 65	49	0.329	0.46	200/80
1.35		0.71 x 0.85 x 65	53	0.468	0.46	200/80
1.85		0.76 x 1.03 x 65	54	0.641	0.46	200/80
2.80		0.90 x 1.20 x 65	54	0.971	0.46	200/80
3.80		0.94 x 1.28 x 33	54	1.318	0.46	200/80
8.00		1.52 x 1.28 x 28	50	2.773	0.46	200/80

*Flow rate at 1.0 bar pressure **According to dripperlines wall thicknesses / inside diameter

DRIPPERS TECHNICAL DATA

12125, 12150, 16125, 16150, 22135, 22150 - 0.31, 0.34 and 0.38 mm wall thickness dripperlines

FLOW RATE* (L/H)	0.2	0.4	0.6	0.8	1.0	1.5	2.0	2.2
0.50	0.24	0.33	0.39	0.45	0.50	0.60	0.69	0.76
0.80	0.38	0.52	0.63	0.72	0.80	0.96	1.10	1.15
0.95	0.45	0.62	0.75	0.86	0.95	1.14	1.31	1.36
1.35	0.64	0.89	1.07	1.22	1.35	1.63	1.86	1.94
1.85	0.88	1.21	1.46	1.67	1.85	2.23	2.54	2.66
2.80	1.34	1.84	2.21	2.53	2.80	3.37	3.85	4.02
3.80	1.81	2.49	3.01	3.43	3.80	4.58	5.23	5.46
8.00	3.81	5.25	6.32	7.22	8.00	9.64	11.00	12.19

*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)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
12125	11.80	0.31	12.42	2.5	3.3	0.40
12150	11.80	0.38	12.56	3.0	3.9	0.40
16125	16.20	0.31	16.82	1.8	2.3	0.30
16150	16.20	0.38	16.96	2.2	2.9	0.30
22125	22.20	0.31	22.82	1.5	2.0	0.06
22135	22.20	0.34	22.88	1.6	2.1	0.06
22150	22.20	0.38	22.96	1.8	2.3	0.06

DRIPPERLINES PACKAGE DATA (ON CARTON COILS)

MODEL	WALL THICKNESS (MM)	DISTANCE BETWEEN DRIPPERS (M)	COIL LENGTH (M)	AVERAGE* COIL WEIGHT (KG)	COILS PER PALLET (UNITS)	COILS IN A 40 FEET CONTAINER (UNITS)	TOTAL IN A 40 FEET CONTAINER (M)
12125	0.31	0.15	1150	18.0	12	480	552000
		0.20 to 0.25	1250	18.5			600000
		0.30 to 1.00	1350	18.7			648000
12150	0.38	0.15	1000	19.0	12	480	480000
		0.20 to 0.25	1100	19.3			528000
		0.30 to 1.00	1200	19.8			576000
16125	0.31	0.15 to 0.25	1000	18.7	16	640	640000
		0.30 to 1.00	1100	19.5			704000
16150	0.38	0.15 to 0.25	900	20.1	16	640	576000
		0.30 to 1.00	1000	21.4			640000
22125	0.31	0.15 to 0.25	900	21.9	16	640	576000
		0.30 to 1.00	1000	23.4			640000
22135	0.34	0.15 to 0.25	800	21.5	16	640	512000
		0.30 to 1.00	900	23.0			576000
22150	0.38	0.15 to 0.25	700	20.6	16	640	448000
		0.30 to 1.00	800	22.7			512000

*According to drippers spacing

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

ARIES™ TWD • 12125-12150 • ID 11.8 MM • KD 0.40 • FLOW RATE 0.50 L/H • INLET PRESSURE 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)								
UPHILL	SLOPE	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
		2%	72	90	103	113	119	125	130	133
	1%	81	106	126	143	158	170	181	191	199
FLAT TERRAIN	0	91	124	153	180	205	228	250	272	292
	-1%	98	138	175	210	242	274	305	335	364
DOWNHILL	-2%	105	150	192	232	271	308	344	379	413

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

ARIES™ TWD • 12125-12150 • ID 11.8 MM • KD 0.40 • FLOW RATE 0.80 L/H • INLET PRESSURE 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)								
UPHILL	SLOPE	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
		2%	58	74	87	97	105	112	118	122
	1%	63	83	101	115	128	140	150	160	168
FLAT TERRAIN	0	68	93	116	136	155	172	190	204	220
	-1%	72	101	128	153	177	201	223	246	268
DOWNHILL	-2%	76	110	141	172	202	232	262	291	320

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

ARIES™ TWD • 12125-12150 • ID 11.8 MM • KD 0.40 • FLOW RATE 0.95 L/H • INLET PRESSURE 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)								
UPHILL	SLOPE	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
		2%	53	68	80	91	98	105	111	116
	1%	57	76	92	106	118	128	138	147	155
FLAT TERRAIN	0	61	83	104	122	139	154	170	184	198
	-1%	64	89	113	135	157	177	197	216	235
DOWNHILL	-2%	67	96	124	150	176	202	227	252	277

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

ARIES™ TWD • 12125-12150 • ID 11.8 MM • KD 0.40 • FLOW RATE 1.35 L/H • INLET PRESSURE: 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)								
UPHILL	SLOPE	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
		2%	43	57	68	77	85	92	97	102
	1%	46	62	75	87	97	106	115	122	130
FLAT TERRAIN	0	49	66	82	97	111	124	135	147	158
	-1%	50	70	88	106	122	137	153	167	181
DOWNHILL	-2%	53	74	95	115	134	153	171	189	207

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

ARIES™ TWD • 12125-12150 • ID 11.8 MM • KD 0.40 • FLOW RATE 1.85 L/H • INLET PRESSURE 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)								
UPHILL	SLOPE	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
		2%	36	48	57	66	73	79	85	90
	1%	38	51	62	72	81	90	98	104	111
FLAT TERRAIN	0	40	54	67	80	91	101	111	121	130
	-1%	41	57	71	85	98	110	122	133	145
DOWNHILL	-2%	42	59	76	91	106	120	134	149	162

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

ARIES™ TWD • 12125-12150 • ID 11.8 MM • KD 0.40 • FLOW RATE 2.80 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	0.90	1.00
UPHILL	2%	28	38	46	53	59	64	69	74	78
	1%	29	40	49	57	64	71	77	83	88
FLAT TERRAIN	0	30	42	52	61	69	77	85	92	99
	-1%	31	43	54	64	74	83	91	100	108
DOWNHILL	-2%	32	44	56	68	78	89	98	108	118

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

ARIES™ TWD • 12125-12150 • ID 11.8 MM • KD 0.40 • FLOW RATE 3.80 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	0.90	1.00
UPHILL	2%	24	32	38	45	50	55	59	64	68
	1%	24	33	40	48	53	60	65	70	75
FLAT TERRAIN	0	25	34	42	50	57	64	70	77	82
	-1%	25	35	44	52	60	67	74	81	88
DOWNHILL	-2%	26	36	46	55	63	71	79	87	94

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

ARIES™ TWD • 12125-12150 • ID 11.8 MM • KD 0.40 • FLOW RATE 8.00 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%	15	20	24	29	32	36	38	41	44
	1%	15	20	25	30	34	37	41	44	47
FLAT TERRAIN	0	15	21	26	31	35	39	42	47	50
	-1%	15	21	26	32	36	41	45	49	53
DOWNHILL	-2%	16	22	27	33	37	42	46	50	55

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

ARIES™ TWD • 16125-16150 • ID 16.2 MM • KD 0.30 • 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%	103	121	132	138	142	145	147	149	150
	1%	127	161	187	206	221	234	243	252	258
FLAT TERRAIN	0	154	212	262	309	352	392	430	467	502
	-1%	176	251	321	388	452	514	574	634	691
DOWNHILL	-2%	192	280	362	443	524	601	673	741	805

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

ARIES™ TWD • 16125-16150 • ID 16.2 MM • KD 0.30 • 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	0.90	1.00
UPHILL	2%	87	107	120	130	136	141	145	147	150
	1%	101	131	155	175	191	204	216	226	235
FLAT TERRAIN	0	116	159	198	233	265	295	325	352	378
	-1%	128	183	235	285	334	382	430	478	525
DOWNHILL	-2%	141	209	276	344	412	481	549	617	685

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

ARIES™ TWD • 16125-16150 • ID 16.2 MM • KD 0.30 • FLOW RATE 0.95 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%	81	100	114	124	130	136	140	143	146
	1%	92	120	142	162	178	190	202	212	222
FLAT TERRAIN	0	104	143	177	209	237	265	290	316	339
	-1%	113	161	206	250	292	334	374	415	455
DOWNHILL	-2%	124	182	239	296	353	412	470	210	187

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

ARIES™ TWD • 16125-16150 • ID 16.2 MM • KD 0.30 • FLOW RATE 1.35 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	86	100	110	118	125	129	133	137
	1%	75	99	119	136	150	163	174	185	193
FLAT TERRAIN	0	83	113	141	166	190	211	232	251	271
	-1%	88	125	159	192	224	254	285	314	343
DOWNHILL	-2%	95	138	180	221	262	302	343	384	425

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

ARIES™ TWD • 16125-16150 • 16.2 MM • KD 0.30 • FLOW RATE 1.85 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%	57	74	87	97	106	112	118	122	127
	1%	62	83	100	115	128	140	151	160	169
FLAT TERRAIN	0	67	93	115	136	155	173	190	205	221
	-1%	71	100	127	153	178	201	224	247	269
DOWNHILL	-2%	75	109	140	172	202	232	262	293	322

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

ARIES™ TWD • 16125-16150 • ID 16.2 MM • KD 0.30 • FLOW RATE 2.80 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	0.90	1.00
UPHILL	2%	46	60	71	81	89	96	102	107	111
	1%	48	65	79	92	103	113	122	131	139
FLAT TERRAIN	0	51	71	88	104	119	133	146	158	170
	-1%	53	75	95	114	131	148	166	182	197
DOWNHILL	-2%	56	80	103	125	146	167	187	208	228

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

ARIES™ TWD • 16125-16150 • ID 16.2 MM • KD 0.30 • FLOW RATE 3.80 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	0.90	1.00
UPHILL	2%	38	51	61	70	77	83	90	95	99
	1%	40	54	67	78	87	96	104	112	118
FLAT TERRAIN	0	42	58	73	86	97	109	120	131	140
	-1%	43	61	77	92	106	120	133	146	158
DOWNHILL	-2%	45	64	82	99	116	132	147	163	178

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

ARIES™ TWD • 16125-16150 • ID 16.2 MM • KD 0.30 • FLOW RATE 8.00 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%	24	32	40	46	52	56	61	65	69
	1%	25	34	42	49	55	61	66	72	77
FLAT TERRAIN	0	26	35	44	52	59	67	73	79	85
	-1%	26	37	46	55	63	71	78	86	93
DOWNHILL	-2%	27	38	48	57	66	75	83	91	99

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

ARIES™ TWD • 22125-22135-22150 • ID 22.2 MM • KD 0.06 • 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%	136	145	148	150	151	153	153	153	154
	1%	203	235	255	268	277	283	287	291	294
FLAT TERRAIN	0	301	399	485	564	636	704	769	831	890
	-1%	377	526	665	795	505	449	408	390	380
DOWNHILL	-2%	237	198	185	181	178	177	176	176	175

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

ARIES™ TWD • 22125-22135-22150 • ID 22.2 MM • KD 0.06 • 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	0.90	1.00
UPHILL	2%	128	141	148	152	154	156	158	158	159
	1%	171	206	230	248	261	271	278	284	291
FLAT TERRAIN	0	227	301	366	425	480	531	580	627	671
	-1%	277	392	503	614	723	834	945	431	379
DOWNHILL	-2%	333	496	177	167	162	160	158	157	156

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

ARIES™ TWD • 22125-22135-22150 • ID 22.2 MM • KD 0.06 • FLOW RATE: 0.95 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%	122	136	144	149	152	155	156	157	158
	1%	158	193	217	235	249	260	269	276	282
FLAT TERRAIN	0	203	269	328	381	430	476	520	562	602
	-1%	243	342	437	531	623	715	809	902	996
DOWNHILL	-2%	287	423	195	173	166	162	160	158	157

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

ARIES™ TWD • 22125-22135-22150 • ID 22.2 MM • K 0.06 • FLOW RATE 1.35 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%	108	125	135	142	146	149	151	154	154
	1%	133	165	189	208	223	235	246	254	262
FLAT TERRAIN	0	162	215	262	304	344	380	416	448	481
	-1%	187	260	330	398	464	530	595	661	725
DOWNHILL	-2%	214	311	407	505	185	174	167	164	162

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

ARIES™ TWD • 22125-22135-22150 • ID 22.2 MM • KD 0.06 • FLOW RATE 1.85 L/H • INLET PRESSUR 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)								
UPHILL	SLOPE	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
		2%	95	113	124	133	138	142	146	148
	1%	113	142	164	183	198	211	222	231	239
FLAT TERRAIN	0	132	176	214	249	281	311	340	367	393
	-1%	149	206	259	311	361	410	458	506	554
DOWNHILL	-2%	167	239	309	379	450	223	187	176	171

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

ARIES™ TWD • 22125-22135-22150 • ID 22.2 MM • KD 0.06 • FLOW RATE 2.80 L/H • INLET PRESSURE 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)								
UPHILL	SLOPE	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
		2%	79	97	109	118	125	130	135	139
	1%	90	115	134	151	165	178	188	198	207
FLAT TERRAIN	0	101	135	164	191	216	239	261	282	302
	-1%	111	152	190	227	262	295	329	362	395
DOWNHILL	-2%	121	171	218	266	312	358	406	453	500

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

ARIES™ TWD • 22125-22135-22150 • ID 22.2 MM • KD 0.06 • FLOW RATE 3.80 L/H • INLET PRESSURE 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)								
UPHILL	SLOPE	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
		2%	68	84	97	106	114	120	125	130
	1%	75	97	115	130	143	155	165	174	183
FLAT TERRAIN	0	83	111	135	157	178	197	214	232	249
	-1%	90	122	152	181	208	235	260	285	310
DOWNHILL	-2%	96	135	171	207	242	277	310	345	379

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

ARIES™ TWD • 22125-22135-22150 • ID 22.2 MM • KD 0.06 • FLOW RATE 8.00 L/H • INLET PRESSURE 1.5 BAR

		DISTANCE BETWEEN DRIPPERS (METER)								
UPHILL	SLOPE	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
		2%	45	57	67	75	82	88	94	98
	1%	48	62	74	85	95	104	111	119	125
FLAT TERRAIN	0	51	68	82	96	108	120	131	142	152
	-1%	53	72	89	105	120	134	148	161	174
DOWNHILL	-2%	56	76	95	113	129	146	161	176	191