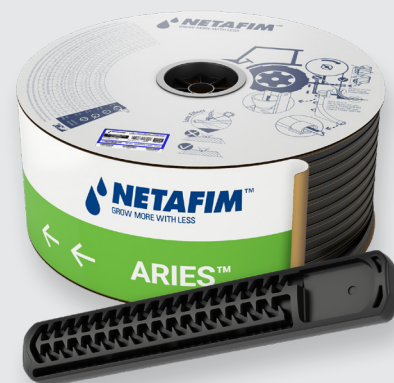


Aries™ TWD

Integral dripper (non-pressure-compensated) with high clogging resistance. Designed for seasonal drip irrigation applications in vegetables, industrial crops and other seasonal crops.



Benefits & Features

Hydraulic performance adaptability

Flow rate varies with pressure, following pressure-dependent flow characteristics that enable flexible system design under specific field conditions.

A low exponent (X) allows improved irrigation uniformity and enables longer dripline lengths under similar operating conditions.

Long-lasting, high clogging resistance

Ensures reliable performance even under challenging water quality conditions through a self-cleaning labyrinth that continuously flushes debris during operation.

A large filtration area prevents suspended particles from entering the dripper, maintaining dependable performance across a wide range of water quality levels.

The TurbuNext™ labyrinth features wide, deep flow passages with large cross-sections that significantly enhance clogging resistance. Water is drawn from the center of the flow stream to further minimize suspended particle ingress.

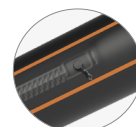
Guided installation orientation

Dual orange stripes indicate the dripper position, enabling quick and accurate installation. Installing the dripper facing upwards helps reduce sediment accumulation away from the inlet, improving long-term performance and reliability.

Flap outlet protection (optional)

Reduces the risk of particle ingress from surrounding soil through a flexible outlet cover that closes when irrigation stops, acting as a mechanical barrier against soil, sand and debris.

*Does not provide full anti-siphon functionality or guarantee complete sealing under all field conditions. Proper system design, installation and maintenance, including the correct use of air valves, are recommended to prevent suction within the dripline.



Applications



Open field



Orchards



Protected crops

- Suitable for on-surface and sub-surface installation.
- Delivers uniform hydraulic performance on flat terrain and slightly sloping fields.
- Ideal for irrigation in seasonal vegetables, industrial and other row crops.



Specifications

- Maximum operating pressure: According to dripline wall thickness and diameter. See tables below.
- Filtration requirements: Filtration level depends on the dripper flow rate and must be selected according to the type and concentration of particles in the water. When sand content exceeds 2 ppm, a Hydrocyclone must be installed upstream of the main filter. For sand/silt/clay solids above 100 ppm, apply pre-treatment in line with Netafim™ expert guidelines.
- TurbuNext™ labyrinth with enhanced clogging resistance and superior hydraulic performance.
- Weldable into thin-wall driplines: 0.31, 0.34 and 0.38 mm.
- Injection-molded dripper with very low coefficient of variation (CV) for reliable uniformity.
- High UV resistance and compatible with standard agricultural nutrients and fertilizers.
- Compliant with ISO 9261 international standards.
- Driplines are black with two orange stripes.

Drippers technical data

Flow rate* (l/h)	Water passages dimensions width-depth-length (mm x mm x mm)	Filtration area (mm ²)	Constant K	Exponent X	Recommended filtration (micron)/(mesh)
0.50	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	130/120
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

* Nominal flow rate at 1.0 bar.

Both the K constant and the X exponent are fundamental hydraulic parameters used to calculate the actual flow rate of each dripper at a given operating pressure as detailed in the following pages.

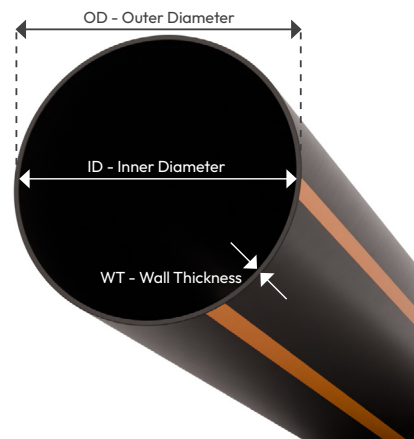


Driplines technical data

Model	Inner diameter (mm)	Wall thickness (mil) / (mm)	Outer diameter (mm)	Max. working pressure (bar)	Max. flushing pressure (bar)	Kd
12125	11.80	12.5 / 0.31	12.42	2.5	2.9	0.53
12150	11.80	15.0 / 0.38	12.56	3.0	3.5	0.53
16125	16.20	12.5 / 0.31	16.82	1.8	2.1	0.30
16150	16.20	15.0 / 0.38	16.96	2.2	2.5	0.30
22125	22.20	12.5 / 0.31	22.82	1.2	1.4	0.06
22135	22.20	13.5 / 0.34	22.88	1.6	1.8	0.06
22150	22.20	15.0 / 0.38	22.96	1.8	2.1	0.06

Kd: An integral dripper installed inside the dripline creates a localized disturbance in the water flow, generating minor head losses (Kd) as its shape and volume partially obstruct the internal flow path. The lower the Kd value for a given inner diameter, the longer the driplines can be designed under similar operating conditions.

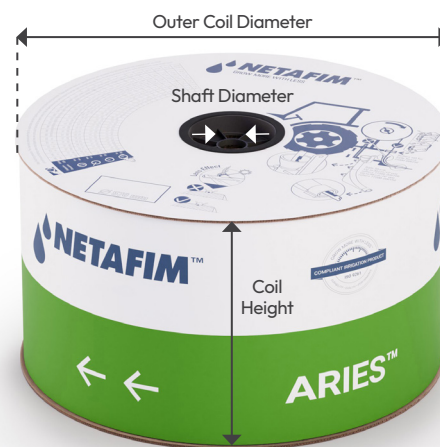
Max. flushing pressure: The maximum permissible flushing pressures shown in the table apply to continuous flushing cycles of up to 30 minutes, with the ends of at least five driplines opened for flushing.



Driplines package data (on carton coil)

Model	Wall thickness (mil) / (mm)	Distance between drippers (m)	Coil length (m)	Average* coil weight (kg)	Outer coil diameter (cm)	Shaft diameter (cm)	Coil height (cm)
12125	1.25 / 0.31	0.15	1300	14.5	52.0	3.8	32.5
		0.20 to 0.25	1300	14.5			
		0.30 to 1.00	1350	15.1			
12150	15.0 / 0.38	0.15	1000	19.1	52.0	3.8	32.5
		0.20 to 0.25	1100	19.3			
		0.30 to 1.00	1200	19.8			
16125	12.5 / 0.31	0.15 to 0.25	1000	18.7	57.0	3.8	24.0
		0.30 to 1.00	1100	19.5			
16150	15.0 / 0.38	0.15 to 0.25	900	20.1	57.0	3.8	24.0
		0.30 to 1.00	1000	21.4			
22125	12.5 / 0.31	0.15	900	21.9	57.0	3.8	24.0
		0.20 to 1.00	1000	23.4			
22135	13.5 / 0.34	0.15 to 0.25	800	18.2	57.0	3.8	24.0
		0.30 to 1.00	900	20.5			
22150	15.0 / 0.38	0.15 to 0.25	700	20.6	57.0	3.8	24.0
		0.30 to 1.00	800	22.7			

*Values shown are average weights and may vary due to dripper spacing and extrusion tolerances. Refer to the official Netafim™ disclaimers for details.



Driplines package data (on carton coil) within container

Model	Coil length (m)	Coils p/pallet (units)	Pallet dimensions (cm x cm x cm)	Average* pallet weight (kg)	Coils in a 40 foot container (units)	Total in a 40 foot container (m)
12125	1300	12	109 x 109 x 110	184	480	624000
	1300			184		624000
	1350			191		648000
12150	1000	12	109 x 109 x 110	239	480	480000
	1100			242		528000
	1200			248		576000
16125	1000	16	109 x 109 x 106	309	640	640000
	1100			322		704000
16150	900	16	109 x 109 x 106	332	640	576000
	1000			352		640000
22125	900	16	109 x 109 x 106	360	640	576000
	1000			384		640000
22135	800	16	109 x 109 x 106	302	640	512000
	900			338		576000
22150	700	16	109 x 109 x 106	340	640	448000
	800			373		512000

*Values shown are average weights and may vary due to dripper spacing and extrusion tolerances. Refer to the official Netafim™ disclaimers for details.

A standard 40-foot container has internal dimensions of 12.0 m (L) × 2.35 m (W) × 2.39 m (H). In certain cases, a 40-foot High Cube container may be used, providing an increased internal height of 2.69 m, allowing improved volume utilization depending on product configuration.



Catalog numbers

Because of the wide range of available configurations (different flow rates, emitter spacings, coil lengths and additional specifications), the final catalog number must be confirmed with your local Netafim™ representative after completing the product definition.

Complete the product specification using the options provided in the following flow chart.
How to use: Select one option from each category in the chart to define the most appropriate product configuration for your application.

Product name

Aries™

ARIES

Commercial diameter (mm)

1212

1616

2222

Wall thickness (mil) / (mm)

12.5 / 0.31125

13.5 / 0.34135

15.0 / 0.35150

Flow rate (l/h)

0.500.55L/H

0.800.80L/H

0.950.95L/H

1.351.35L/H

1.851.85L/H

2.802.80L/H

3.803.80L/H

8.008.00L/H

Distance between drippers (m)

0.20.20M

0.30.30M

0.40.40M

0.50.50M

0.60.60M

0.70.70M

*Other distances between drippers can be ordered.

Coil length (m)

Coil length according to the values presented in the corresponding table.

Special features

No added-

Flap outletFL

OtherXXX

*Other features available upon request. Consult your local Netafim™ distributor.

ARIES 22125 0.95L/H 0.40M 1000M FL

Catalog description example

Drippers flow rate vs working pressure

To determine the actual flow rate of a dripper under different operating pressures, the following equation is applied:
 $Q = K \times P^X$

- Where:
- Q = Dripper flow rate (liters per hour)
 - K = Dripper-specific flow constant (manufacturer-defined)
 - P = Actual working pressure (meters of water column)
 - X = Dripper-specific exponent (manufacturer-defined)

In accordance with ISO 9261, manufacturers must declare both the K constant and the X exponent for each dripper model.

Non-pressure-compensated drippers deliver a flow rate that varies with operating pressure, following the relationship defined by the formula presented above.
To provide a general understanding of how flow rate responds to changes in operating pressure, tables are provided showing the dripper flow rate at different working pressures for each model in this document.

Aries™ TWD flow (l/h) vs pressure (bar)

Dripper	Flow rate* (l/h)	Working pressure (bar)							
		0.20	0.40	0.60	0.80	1.00	1.50	2.00	2.50
Aries™ TWD	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	1.22
	0.95	0.45	0.62	0.75	0.86	0.95	1.14	1.31	1.45
	1.35	0.64	0.89	1.07	1.22	1.35	1.63	1.86	2.06
	1.85	0.88	1.21	1.46	1.67	1.85	2.23	2.54	2.82
	2.80	1.34	1.84	2.21	2.53	2.80	3.37	3.85	4.27
	3.80	1.81	2.49	3.01	3.43	3.80	4.58	5.23	5.79
	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.

Maximum driplines length

To determine the maximum feasible run length for a given dripline, considering all hydraulic factors that influence flow within the dripline, Netafim™ uses proprietary design software based on the Darcy–Weisbach equations, supported by decades of engineering expertise and long-standing collaboration with leading academic institutions.

The precise maximum run length for any installation must be calculated using this dedicated design software, which evaluates all relevant hydraulic parameters across the system.

Minor differences may occur between design tools available on the market, due to variations in calculation methodologies and underlying design assumptions.

To calculate the maximum feasible dripline length, taking into account the required variables, such as flow rate and emitter spacing, pipe inner diameter, field slope, inlet pressure and other parameters, Netafim™ HydroCalc design software can be used.



The following tables present the maximum dripline lengths that can be used in driplines to achieve optimal performance.

The values provided here are intended to offer a preliminary reference. The actual maximum dripline length must be calculated by a hydraulic engineer responsible for designing the complete system, in order to account for additional constraints and site-specific limitations.

Max. dripline length (meters) at different slopes - 10.0% 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)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	74	92	106	116	124	130	134	138	141
	1%	83	109	130	147	162	175	186	196	206
Flat terrain	0	92	126	156	184	209	232	255	277	298
Downhill	-1%	100	141	179	216	251	286	320	354	386
	-2%	108	157	204	252	298	345	392	439	487

Max. dripline length (meters) at different slopes - 10.0% 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)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	58	74	87	97	105	112	118	122	126
	1%	63	83	101	115	128	140	150	160	168
Flat terrain	0	68	93	116	136	155	172	190	204	220
Downhill	-1%	72	101	128	153	177	201	223	246	268
	-2%	76	110	141	172	202	232	262	291	320

Max. dripline length (meters) at different slopes - 10.0% 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)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	53	68	80	91	98	105	111	116	120
	1%	57	76	92	106	118	128	138	147	155
Flat terrain	0	61	83	104	122	139	154	170	184	198
Downhill	-1%	64	89	113	135	157	177	197	216	235
	-2%	67	96	124	150	176	202	227	252	277

Max. dripline length (meters) at different slopes - 10.0% 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)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	43	57	68	77	85	92	97	102	106
	1%	46	62	75	87	97	106	115	122	130
Flat terrain	0	49	66	82	97	111	124	135	147	158
Downhill	-1%	50	70	88	106	122	137	153	167	181
	-2%	53	74	95	115	134	153	171	189	207

Max. dripline length (meters) at different slopes - 10.0% 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)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	36	48	57	66	73	79	85	90	94
	1%	38	51	62	72	81	90	98	104	111
Flat terrain	0	40	54	67	80	91	101	111	121	130
Downhill	-1%	41	57	71	85	98	110	122	133	145
	-2%	42	59	76	91	106	120	134	149	162

Max. dripline length (meters) at different slopes - 10.0% flow variation

Aries™ TWD 12125/12150 • ID 11.8 mm • Kd 0.40 • Flow rate 2.85 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%	28	38	46	53	58	64	69	73	77
	1%	29	39	48	57	64	70	76	82	87
Flat terrain	0	30	41	51	61	68	76	84	91	98
Downhill	-1%	30	42	53	63	73	82	90	99	107
	-2%	31	44	56	67	77	88	98	107	117

Max. dripline length (meters) at different slopes - 10.0% 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
Downhill	-1%	25	35	44	52	60	67	74	81	88
	-2%	26	36	46	55	63	71	79	87	94

Max. dripline length (meters) at different slopes - 10.0% 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	25	30	33	36	39	42	45
	1%	15	21	26	31	34	38	42	45	48
Flat terrain	0	15	21	27	32	36	40	44	48	51
Downhill	-1%	15	21	27	32	37	41	46	50	53
	-2%	16	22	28	33	38	43	47	51	56

Max. dripline length (meters) at different slopes - 10.0% 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%	107	125	136	143	148	151	154	155	155
	1%	130	166	192	213	229	242	252	261	268
Flat terrain	0	157	216	267	315	359	400	438	476	511
Downhill	-1%	180	260	337	413	488	563	637	712	787
	-2%	205	309	416	510	618	729	845	966	1091

Max. dripline length (meters) at different slopes - 10.0% 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
Downhill	-1%	128	183	235	285	334	382	430	478	525
	-2%	141	209	276	344	412	481	549	617	684

Max. dripline length (meters) at different slopes - 10.0% 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
Downhill	-1%	113	161	206	250	292	334	374	415	455
	-2%	124	182	239	296	353	412	470	510	567

Max. dripline length (meters) at different slopes - 10.0% 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
Downhill	-1%	88	125	159	192	224	254	285	314	343
	-2%	95	138	180	221	262	302	343	384	425

Max. dripline length (meters) at different slopes - 10.0% flow variation

Aries™ TWD 16125/16150 • ID 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
Downhill	-1%	71	100	127	153	178	201	224	247	269
	-2%	75	109	140	172	202	232	262	293	322

Max. dripline length (meters) at different slopes - 10.0% 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
Downhill	-1%	53	75	95	114	131	148	166	182	197
	-2%	56	80	103	125	146	167	187	208	228

Max. dripline length (meters) at different slopes - 10.0% 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
Downhill	-1%	43	61	77	92	106	120	133	146	158
	-2%	45	64	82	99	116	132	147	163	178

Max. dripline length (meters) at different slopes - 10.0% 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%	25	33	40	47	53	57	62	67	71
	1%	25	35	42	50	56	63	69	74	79
Flat terrain	0	26	36	45	53	61	68	74	81	87
Downhill	-1%	26	37	46	56	64	71	79	86	94
	-2%	27	38	48	58	67	76	85	94	102

Max. dripline length (meters) at different slopes - 10.0% 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%	142	151	155	157	158	159	159	160	161
	1%	209	243	264	278	287	295	299	303	306
Flat terrain	0	307	407	494	575	649	718	784	846	907
Downhill	-1%	401	578	753	930	397	358	342	334	328
	-2%	508	169	161	159	157	156	155	155	154

Due to considerations related to dripline filling time and flushing effectiveness, it is not recommended to exceed a dripline length of 800 meters.

Max. dripline length (meters) at different slopes - 10.0% 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
Downhill	-1%	277	392	503	614	723	834	945	431	379
	-2%	333	496	177	167	162	160	158	157	156

Max. dripline length (meters) at different slopes - 10.0% 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
Downhill	-1%	243	342	437	531	623	715	809	902	996
	-2%	287	423	195	173	166	162	160	158	157

Due to considerations related to dripline filling time and flushing effectiveness, it is not recommended to exceed a dripline length of 800 meters.

Max. dripline length (meters) at different slopes - 10.0% flow variation

Aries™ TWD 22125/22135/22150 • ID 22.2 mm • Kd 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
Downhill	-1%	187	260	330	398	464	530	595	661	725
	-2%	214	311	407	505	185	174	167	164	162

Max. dripline length (meters) at different slopes - 10.0% flow variation

Aries™ TWD 22125/22135/22150 • ID 22.2 mm • Kd 0.06 • 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%	95	113	124	133	138	142	146	148	150
	1%	113	142	164	183	198	211	222	231	239
Flat terrain	0	132	176	214	249	281	311	340	367	393
Downhill	-1%	149	206	259	311	361	410	458	506	554
	-2%	167	239	309	379	450	223	187	176	171

Max. dripline length (meters) at different slopes - 10.0% 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)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	79	97	109	118	125	130	135	139	141
	1%	90	115	134	151	165	178	188	198	207
Flat terrain	0	101	135	164	191	216	239	261	282	302
Downhill	-1%	111	152	190	227	262	295	329	362	395
	-2%	121	171	218	266	312	358	406	453	500

Max. dripline length (meters) at different slopes - 10.0% 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)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	68	84	97	106	114	120	125	130	133
	1%	75	97	115	130	143	155	165	174	183
Flat terrain	0	83	111	135	157	178	197	214	232	249
Downhill	-1%	90	122	152	181	208	235	260	285	310
	-2%	96	135	171	207	242	277	310	345	379

Max. dripline length (meters) at different slopes - 10.0% 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)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	46	59	68	77	85	91	96	101	105
	1%	49	64	76	87	97	106	114	122	128
Flat terrain	0	52	69	84	98	111	123	134	145	155
Downhill	-1%	54	73	90	107	122	137	151	165	178
	-2%	57	78	98	117	134	152	170	186	203