



16008

## ARIES™

### INTEGRAL DRIPPER

#### APPLICATIONS:

- Deciduous and tree irrigation.
- On-surface multi seasonal row crops.

#### SPECIFICATIONS:

- Maximum system pressure: according to dripperlines wall thickness.
- Recommended filtration: 130 micron / 120 mesh.  
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 filter is to be installed before the main filter.  
When sand / silt / clay solids exceed 100ppm, pretreatment will be applied according to Netafim™ expert team's instructions.
- TurbuNext™ labyrinth with superior performance.
- To be "welded" into 0.80 mm thickness.
- Injected dripper, very low CV.
- UV resistant.
- Resistant to standard nutrients used in agricultural.
- Aries™ drippers meet ISO 9261 Standards with production certified by the Israel Standards Institute (SII).
- Aries™ dripperlines produced according to IS 13488 that fit the Bureau of Indian Standard

#### FEATURES AND BENEFITS:

- Largest filter in each dripper. Wide filtration area to ensure optimal performance even under harsh water conditions.
- TurbuNext™ 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

16008 - 0.8 mm wall thickness dripperlines

FLOW RATE* (L/H)	MAXIMUM WORKING PRESSURE** (BAR)	WATER PASSAGES DIMENSIONS WIDTH-DEPTH-LENGTH	FILTRATION AREA (MM <sup>2</sup> )	CONSTANT K	EXPONENT X	RECOMMENDED FILTRATION (MICRON)/(MESH)
1.0	3.0	0.60 x 0.74 x 65	45	0.347	0.46	130/120
1.5	3.0	0.71 x 0.85 x 65	48	0.520	0.46	130/120
2.0	3.0	0.76 x 1.03 x 65	51	0.693	0.46	130/120
3.0	3.0	0.90 x 1.20 x 65	51	1.040	0.46	130/120
4.0	3.0	0.94 x 1.28 x 33	51	1.387	0.46	130/120

\*Flow rate at 1.0 bar pressure

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

16008 – 0.8 mm wall thickness dripperlines

FLOW RATE* (L/H)	0.2	0.4	0.6	0.8	1.0	1.5	2.0	2.5	3.0
1.0	0.48	0.66	0.79	0.90	1.00	1.21	1.38	1.53	1.66
1.5	0.72	0.98	1.19	1.35	1.50	1.81	2.06	2.29	2.49
2.0	0.95	1.31	1.58	1.80	2.00	2.41	2.75	3.05	3.31
3.0	1.43	1.97	2.37	2.71	3.00	3.61	4.13	4.57	4.97
4.0	1.91	2.62	3.16	3.61	4.00	4.82	5.50	6.10	6.63

\*Flow rate at 1.0 bar pressure

## DRIPPERLINES TECHNICAL DATA

MODEL	CLASS	INSIDE DIAMETER (MM)	AVERAGE WALL THICKNESS (MM)	NOMINAL OUTSIDE DIAMETER (MM)	MAXIMUM WORKING PRESSURE (BAR)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
16008	CLASS - 2	14.2	0.80	16	2.7	3.5	0.40

### Maximum Lateral length (meters) at different slopes - 10% flow variation

ARIES™ • 16008 • ID 14.2 MM • KD 0.4 • FLOW RATE 1.0 L/H • INLET PRESSURE

	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%	67	85	98	108	116	123	127	132	136
	1%	74	98	117	133	148	160	171	181	190
FLAT TERRAIN	0	82	112	138	162	185	206	226	245	263
DOWNHILL	-1%	87	123	156	188	218	247	275	304	332
	-2%	94	135	175	215	254	292	331	370	409

### Maximum Lateral length (meters) at different slopes - 10% flow variation

ARIES™ • 16008 • ID 14.2 MM • KD 0.4 • FLOW RATE 1.5 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%	54	70	82	92	100	107	113	118	122
	1%	58	78	94	108	121	132	141	150	158
FLAT TERRAIN	0	63	86	106	126	143	159	174	189	203
DOWNHILL	-1%	66	92	117	140	162	183	203	223	243
	-2%	70	100	128	156	182	209	235	262	288

### Maximum Lateral length (meters) at different slopes - 10% flow variation

ARIES™ • 16008 • ID 14.2 MM • KD 0.4 • FLOW RATE 2.0 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	72	81	89	96	102	107	111
	1%	49	66	80	92	103	113	122	131	138
FLAT TERRAIN	0	52	72	88	104	119	132	146	158	169
DOWNHILL	-1%	54	76	96	114	131	148	165	181	197
	-2%	57	81	103	125	146	167	187	207	227

### Maximum Lateral length (meters) at different slopes - 10% flow variation

ARIES™ • 16008 • ID 14.2 MM • KD 0.4 • FLOW RATE 3.0 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%	37	48	58	66	73	80	86	91	95
	1%	38	52	63	73	82	90	98	105	112
FLAT TERRAIN	0	40	55	68	81	92	102	112	122	131
DOWNHILL	-1%	41	58	72	86	99	111	124	135	147
	-2%	43	60	77	93	107	122	136	150	164

### Maximum Lateral length (meters) at different slopes - 10% flow variation

ARIES™ • 16008 • ID 14.2 MM • KD 0.4 • FLOW RATE 4.0 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%	31	41	50	57	64	69	75	79	83
	1%	32	44	53	62	70	77	84	90	95
FLAT TERRAIN	0	33	46	57	67	76	85	94	101	109
DOWNHILL	-1%	34	47	60	71	81	92	101	111	120
	-2%	35	50	62	75	87	99	110	121	132