



ARIES™ MWD

INTEGRAL DRIPPER

12200 - 12007 - 16200 - 16008 - 20007

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 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 clogging resistance.
- To be "welded" into medium walled dripper lines (0.50, 0.65, 0.75, 0.80 mm).
- Injected dripper, very low CV.
- High UV resistance.
- Resistant to standard nutrients used in agricultural.
- Aries™ drippers meet ISO 9261 Standards.
- 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

12200, 12007, 16200 & 20007 – 0.50, 0.65 and 0.75 mm wall thickness dripperlines

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)
1.00	2.0/3.5	0.60 x 0.74 x 65	49	0.347	0.46	130/120
1.40	2.0/3.5	0.71 x 0.85 x 65	53	0.485	0.46	130/120
1.90	2.0/3.5	0.76 x 1.03 x 65	54	0.659	0.46	130/120
2.85	2.0/3.5	0.90 x 1.20 x 65	54	0.988	0.46	130/120
3.80	2.0/3.5	0.94 x 1.28 x 33	54	1.316	0.46	130/120

*Flow rate at 1.0 bar pressure **According to dripper lines wall thickness

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

12200, 12007, 16200 & 20007 – 0.65 and 0.75mm 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
1.00	0.48	0.66	0.79	0.90	1.00	1.21	1.38	1.53	1.66
1.40	0.67	0.92	1.11	1.26	1.40	1.69	1.92	2.13	2.32
1.90	0.91	1.25	1.50	1.72	1.90	2.29	2.61	2.90	3.15
2.85	1.36	1.87	2.25	2.57	2.85	3.43	3.92	4.34	4.72
3.80	1.81	2.49	3.01	3.43	3.80	4.58	5.23	5.79	6.29

*Nominal flow rate at 1.0 bar pressure

DRIPPERS TECHNICAL DATA

16008 - 0.80 mm wall thickness dripperlines

FLOW RATE* (L/H)	MAXIMUM WORKING PRESSURE** (BAR)	WATER PASSAGES DIMENSIONS WIDTH-DEPTH-LENGTH	FILTRATION AREA (MM ²)	CONSTANT K	EXPONENT X	RECOMMENDED FILTRATION (MICRON)/(MESH)
1.0	2.7	0.60 x 0.74 x 65	49	0.347	0.46	130/120
1.5	2.7	0.71 x 0.85 x 65	53	0.520	0.46	130/120
2.0	2.7	0.76 x 1.03 x 65	54	0.693	0.46	130/120
3.0	2.7	0.90 x 1.20 x 65	54	1.040	0.46	130/120
4.0	2.7	0.94 x 1.28 x 33	54	1.387	0.46	130/120

*Flow rate at 1.0 bar pressure

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

16008 – 0.80 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
12200	NA	11.8	0.50	12	3.0	3.9	0.40
12007	CLASS - 2	10.5	0.65	12	2.7	3.5	0.70
16200	NA	15.5	0.50	16	2.5	3.3	0.35
16008	CLASS - 2	14.2	0.80	16	2.7	3.5	0.40
20007	CLASS - 1	18.0	0.75	20	2.0	2.6	0.10