



Ram Heavywall Dripperline

The Most Successful Pressure Compensating Dripper in the History of Irrigation

Industry's Widest Flow Path
Wider cross-section allows large particles through short flow path.

Self-Adjusting Diaphragm
Continuously adjusts to varying water pressures - crushing, minimizing and flushing debris.

Large Filter Inlets, Secondary Filtration
Reduces clogging and maintains the essential supply of water to the dripper for constant delivery of water flow.

Pressure Compensating Bath and Outlet
Delivers precise water applications anywhere in the field.

TURBONET Increased Flow Path Velocity
Commonly used turbulent drippers have overlapping tooth patterns, easily catching debris. **Turbonet Technology** improves dripper performance by widening the tooth pattern, maximizing flow path velocity, allowing contaminants to pass easily through the dripper, virtually eliminating plugging.

Product Advantages

- Wide pressure range (7 to 60 psi) produce uniform dripper flow rates - longer runs and steep topographies are irrigated with high uniformity.
- Mechanical barrier prevents root intrusion - ideal for sub-surface irrigation (SDI).
- Lowest coefficient of manufacturing variability (Cv) in the industry.
- Seamless, one-piece construction prevents damage to drippers during installation and retrieval.
- Design flexibility and performance with various dripper flows and spacings allow for specific application rates and controlling of wetting pattern in different soil types.
- Pressure compensating feature delivers precise water applications anywhere in the field.



Applications

- For sub-surface or surface applications.
- For tree, vine, row crops, greenhouse and nursery.
- Multi-seasonal use.
- For undulating fields.

Specifications

Nominal flow rates (GPH): .32, .42, .53, .62, .92, 1.0

Common spacings: 24", 30", 36", 42.25", 48"

Recommended filtration: 120 mesh

Inside diameter: .540 - 16mm (45 mil)
 .570 - 17mm (45 mil)
 .620 - 18mm (45 mil)
 .690 - 20mm (48 mil)
 .820 - (35, 45 mil)



VineLine Vineyard Solutions
Pre-Installed Adjustable Drinkerline Ring

See back for details.



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Ram Headloss and Lateral Length

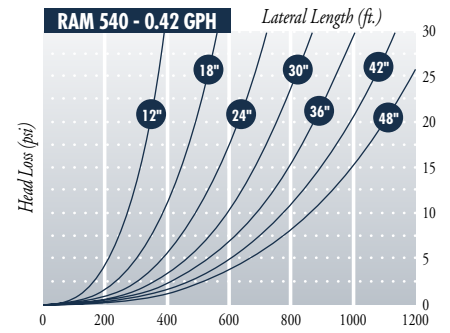
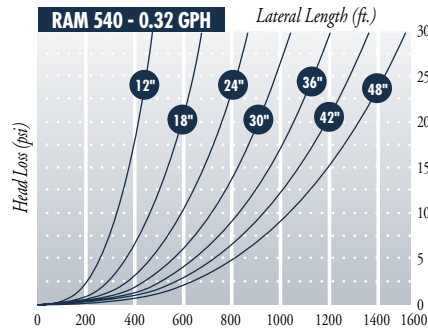
RAM 540

RAM 540

Flows (GPH):

.32, .42, .53, .62, .92, 1.0

Wall thickness (mil): 45



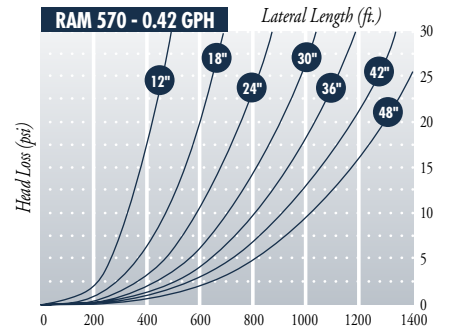
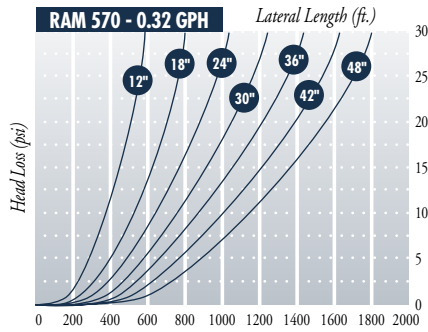
RAM 570

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Flows (GPH):

.32, .42, .53, .62, .92, 1.0

Wall thickness (mil): 45



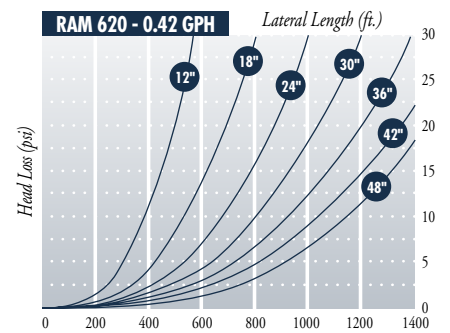
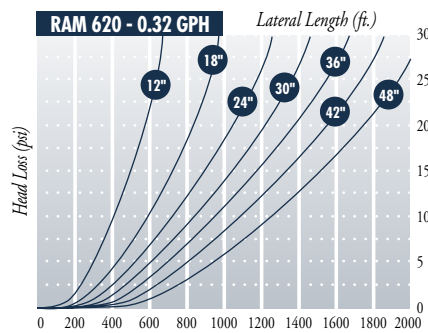
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RAM 620

Flows (GPH):

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Wall thickness (mil): 45



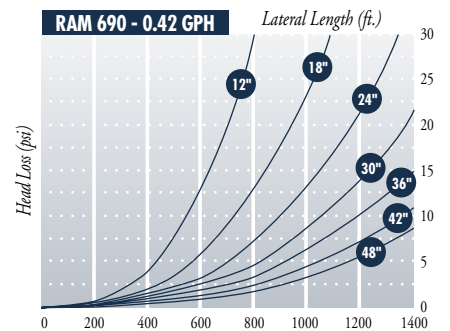
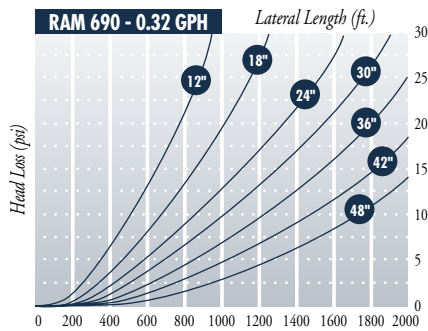
RAM 690

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Flows (GPH):

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Wall thickness (mil): 48



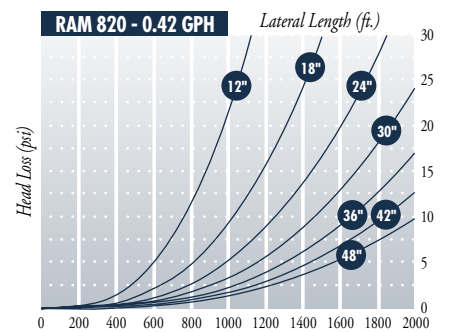
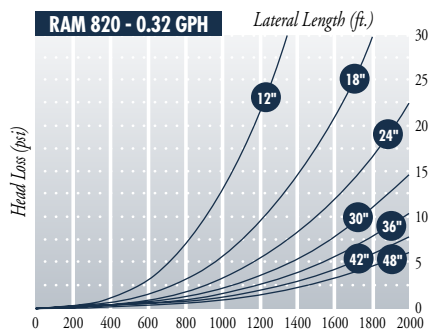
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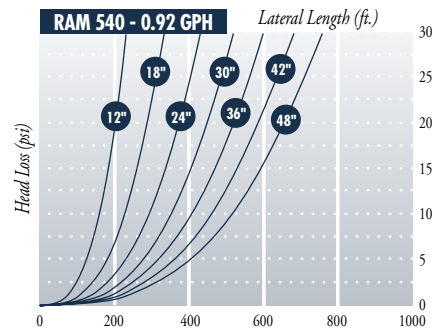
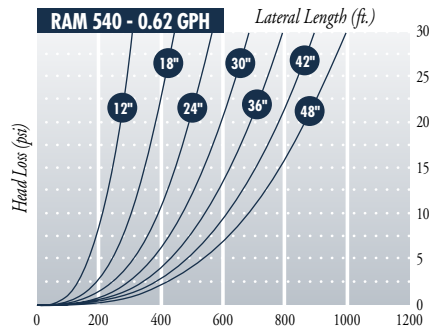
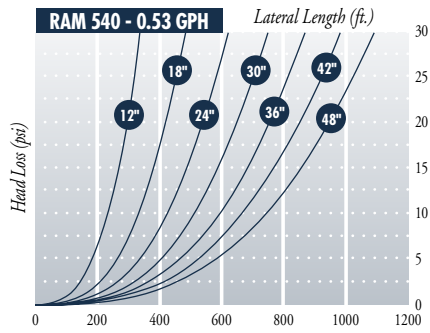
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Flows (GPH):

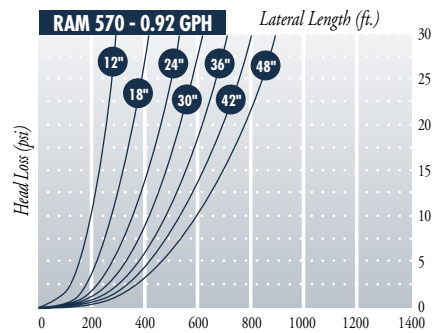
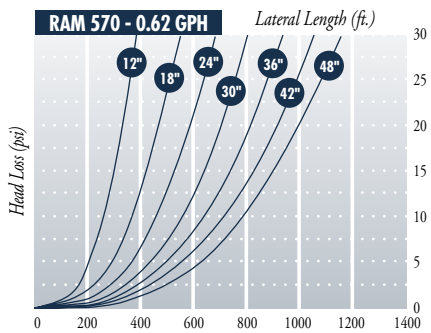
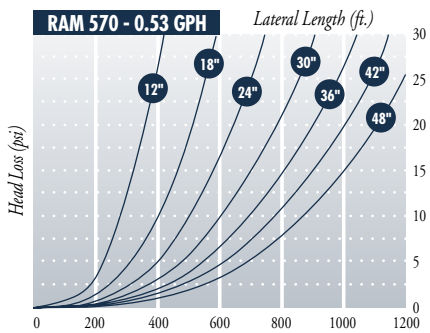
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Wall thickness (mil): 45

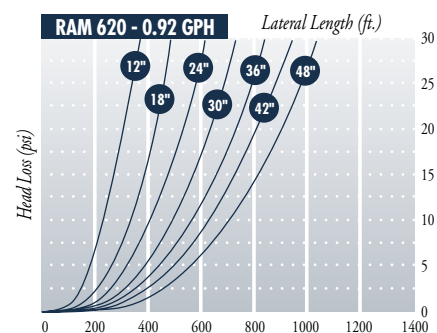
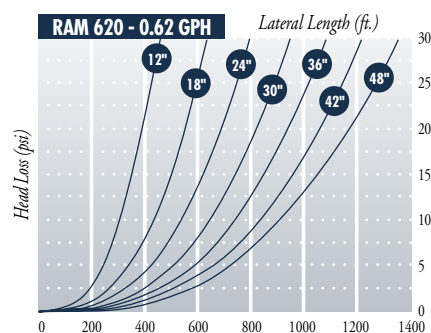
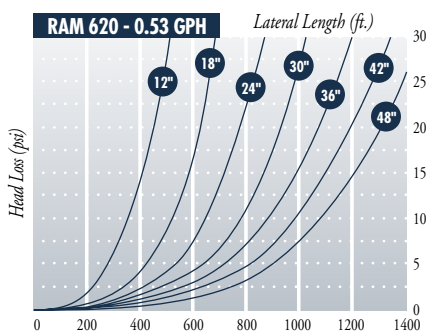




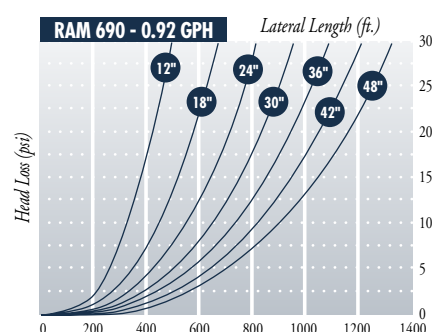
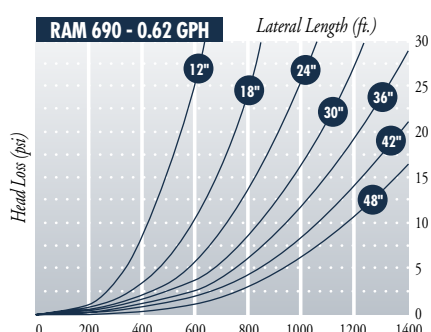
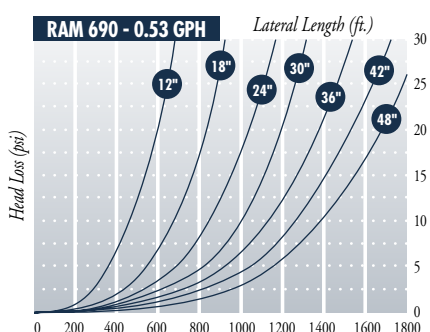
RAM 540



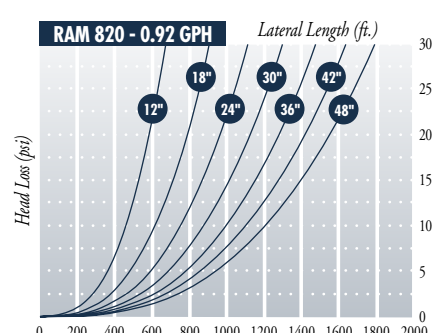
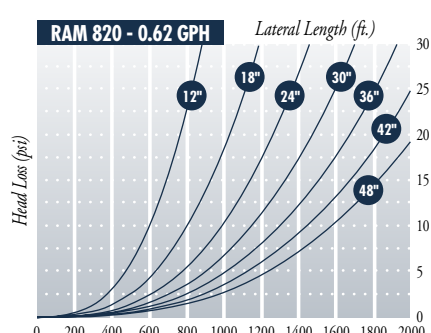
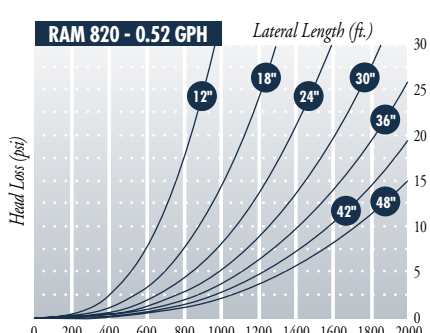
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RAM 620



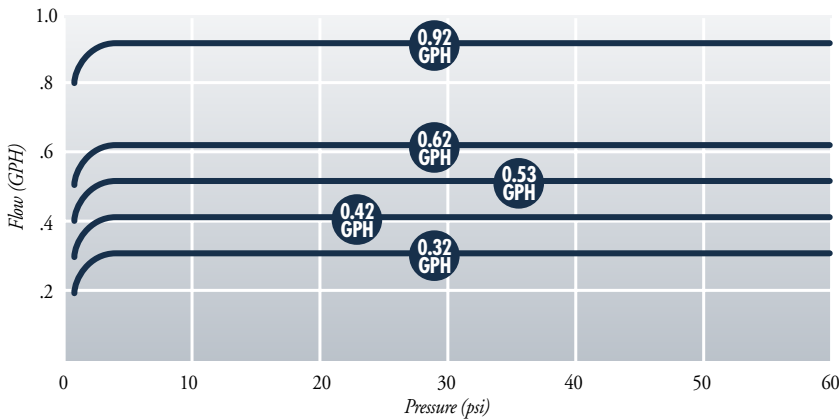
RAM 690



RAM 820

Ram Technical Information

RAM Flow Rate vs. Pressure



DRIPPER FLOW PATH DIMENSIONS

Dripper	Length	Depth	Width
0.32 GPH	.75"	.033"	0.038"
0.42 GPH	.75"	.037"	0.040"
0.53 GPH	.75"	.041"	0.042"
0.62 GPH	.75"	.045"	0.044"
0.92 GPH	.75"	.047"	0.060"

PACKAGING DATA

Tubing I.D.	Mil	Reel Length	Weight
.540	45	1,000'	35 lbs
.570	45	1,000'	37 lbs
.620	45	1,000'	40 lbs
.690	48	1,000'	47 lbs
.820	35	1,000'	39 lbs
.820	45	1,000'	51 lbs

20 coils per pallet.



VineLine Vineyard Solutions

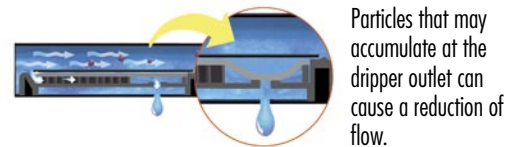
Pre-Installed Adjustable Dripperline Ring

- Easily adjustable — moves from one end of the dripperline to the other preventing water migration
- Economical — saves labor costs
- Flexible options — available with Ram or Triton Heavywall Dripperlines
- Available for 540, 620 and 690 sizes.
- Pre-installed at Netafim USA

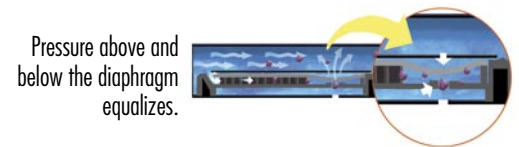
Description of Ram's Advanced Pressure Compensating Operation

Ram's self-cleaning pressure compensating dripper is a fully self-contained unit welded to the interior wall of the dripper tubing. Both tubing and dripper are manufactured from high quality synthetic elastomers to withstand chemicals and fertilizers. The Ram dripper contains a diaphragm that continuously adjusts to varying water pressure to ensure a constant flow rate. The diaphragm allows particles to pass through the dripper, promoting reliable performance and a longer system life.

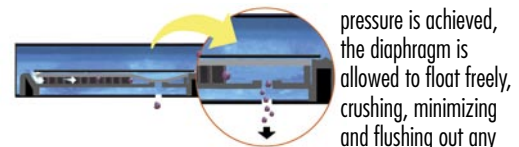
This continuous flushing feature and wide flow path keep drippers flowing at optimal rates without clogging or interrupting operation.



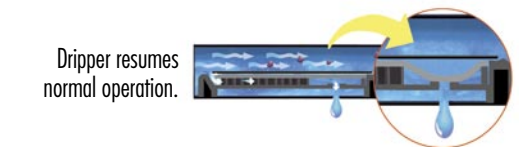
Particles that may accumulate at the dripper outlet can cause a reduction of flow.



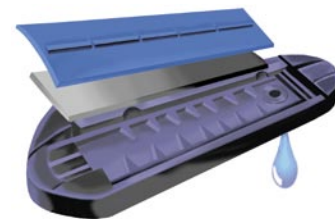
Pressure above and below the diaphragm equalizes.



As the balance of pressure is achieved, the diaphragm is allowed to float freely, crushing, minimizing and flushing out any particles.



Dripper resumes normal operation.



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