

## AMERICAN MANUFACTURING COMPANY, INC. "Perc-Rite®" Drip Systems

DRIPPER LINE* HEAD LOSS CHART FIELD FLUSHING		
LENGTH LINEAR FEET	HEAD LOSS PSI.	HEAD LOSS FT.
50	7	16
60	7	16
70	7	16
80	7	16
90	7	16
100	7	16
110	7	16
120	7	16
130	7	16
140	7	16
150	7	16
160	7	16
170	7	16
180	7	16
190	7	17
200	8	18
210	9	20
220	9	21
230	10	23
240	11	24
250	11	26
260	12	28
270	13	29
280	14	31
290	14	33
300	15	35
310	16	37
320	17	39
330	18	41
340	19	44
350	20	46
360	21	48
370	22	51
380	23	53
390	24	56
400	25	59

TYP. DOSE (NON-FLUSH) CYCLE PRESSURE LOSS THROUGH DRIP TUBING*		
LENGTH LINEAR FEET	HEAD LOSS PSI.	HEAD LOSS FT.
50	0.5	1.2
60	0.5	1.2
70	0.5	1.2
80	0.5	1.2
90	0.5	1.2
100	0.5	1.2
110	0.5	1.2
120	0.5	1.2
130	0.5	1.2
140	0.5	1.2
150	0.5	1.2
160	0.5	1.2
170	0.5	1.2
180	0.5	1.2
190	0.7	1.6
200	0.8	1.8
210	0.9	2.1
220	1.0	2.3
230	1.2	2.7
240	1.3	3.0
250	1.5	3.5
260	1.7	3.9
270	1.9	4.4
280	2.1	4.9
290	2.4	5.5
300	2.7	6.2
310	3.1	7.1
320	3.5	8.0
330	3.8	8.9
340	4.2	9.7
350	4.6	10.6
360	5.0	11.5
370	5.4	12.4
380	5.7	13.3
390	6.1	14.1
400	6.5	15.0

### DRIPPER LINE LATERALS:

Pressure/friction losses for the dripper line laterals and loops must be considered in the overall pressure loss calculation. This pressure loss is calculated using the longest single lateral in the zone. The calculation is made simple by the use of Dripper Line head loss Chart. The pressure loss for maintaining the minimum required **1.6 gpm** through the dripper line lateral during flushing has already been calculated and put in the chart for varied lengths of dripper line.

Determine the length of the longest dripper line lateral in your system design and refer to the Dripper Line head loss Chart. Find the corresponding pressure loss. For example, an absorption field requiring 1,200 feet of dripper line may have four lateral lines. The longest lateral is 300 feet. The chart shows the pressure requirement corresponding to a 300-foot lateral length is 15.2 psi or 35.1 feet.

\*Netafim .5", .61 gph PC emitters; 24 inch emitter spacing with min. 2 ft/sec flush at distal end of all laterals.

**Please Note: If your system design can not be modified to meet layout requirements discussed in this section to match the performance capabilities of the pump shown on the Chart, call American Manufacturing Company, Inc. at 1-800-345-3132 for pump specification and design.**