

GRAVITY POWERED PRESSURE DOSING CALCULATOR FOR SEPTIC FIELDS

Before using this program read Guideline document

Project Name and Date : _____

Designer: _____

SYSTEM INPUTS	
Static head (vertical) available at site (ft.) (Mid level in dosing tank to field inlet manifold)	16.00
Total number of orifices in field (max.150)	61
Diameter of orificies (inches)	1/8
Minimum squirt height required (ft.)	9.25
Total length of transport pipe - dosing tank to field manifold <i>Include equiv. length of fittings (ft.): Pipe equiv. 90 elbow - 8' 45 elbow - 3' Coupling - 6'</i>	

BASE SYSTEM			
<i>(includes 30 ft. of transport pipe) (Refer to www.premierplastics.com for actual test results)</i>			
Transport pipe diameter of base system	2"Pipe	3"Pipe	4/2" Pipe*
Static head required for min. squirt height (ft.)	15.93	15.73	16.07
<i>(Derived from experimental data)</i>			

EXTENDED TRANSPORT PIPE (OVER 30 ft.)	
Minimum total US gallons per minute	36.72
Diameter of extended transport pipe (inches) (try options)	2.00
Friction head loss ft. per 100ft. of transport pipe (Ref.)	2.67
Additional friction head loss for extended transport pipe (ft.)	0.00

OUTPUT**			
Transport pipe diameter of base system	2"Pipe	3"Pipe	4/2" Pipe*
Static head required for base system (ft.)	15.93	15.73	16.07
Additional static head (friction loss) for extended transport pipe (ft.)	-	-	-
Total static head required for minimum squirt height (ft.)	15.93	15.73	16.07
Net excess static head available (ft.) (-) negative (Try another squirt height or pipe size (+/-) if not close to zero) <i>For maximum squirt height potential this number would be zero.</i>	+0.07	+0.27	-0.07

*2" pipe - last 4 ft. of vertical fall **Valid only for fully flooded (vented) flow in transport pipe

This guideline was developed to the best of our knowledge and is not intended as a substitute for evaluation performed by a registered industry professional. Nominal accuracy: ± 15%