

**PUMP SIZING FOR RESIDENTAL PRESSURIZED SEPTIC FIELDS**

Project Name and Date : Sample May 19'17

Designer: \_\_\_\_\_

SYSTEM INPUTS	
Total number of orifices in field (maximum 150)	42
Diameter of orifices (inches)	3/16
Orifice squirt height required (feet)	3.00
Diameter of force main (inches)	2.00
Total length of force main from pump tank to field inlet manifold. (feet) <i>Include pipe equivalent: 90 elbow - 8' 45 elbow - 3' coupling - 6'</i>	225
Vertical lift from lowest level in pump tank to field manifold inlet (feet)  (Refer to <b>GRAVITY 2017</b> for drain fields below septic tank)	15

*Note: - Variations in lateral layout not significant to friction loss.  
- Field performance derived from experimental test data (2013) **FIELD MANIFOLD 2" DIA.***

SYSTEM OUTPUT	
<b>PUMP FLOW RATE</b> US gallons per minute	32.53
<b>PUMP TOTAL HEAD</b> Feet of water	25.43
<i>Friction head loss in force main (feet per 100 feet) (Reference only)</i>	2.13

SELECTED PUMP MAKE AND MODEL \_\_\_\_\_

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%

- Verify squirt height prior to back filling drain field
- Please send comments to John Richardson - Premier Plastics Inc.
- Available at [www.premierplastics.com](http://www.premierplastics.com)

