

PUMP SIZING FOR RESIDENTAL PRESSURIZED SEPTIC FIELDS

Project Name and Date : Sample Oct.31'18

Designer: _____

SYSTEM INPUTS	
Total number of orifices in field (maximum 150)	108
Diameter of orifices (inches)	1/8
Orifice squirt height required (feet)	5.00
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>	80
Vertical lift from lowest level in pump tank to field manifold inlet (feet)	7
(Refer to GRAVITY 2017 for drain fields below septic tank)	

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

SYSTEM OUTPUT	
PUMP FLOW RATE US gallons per minute	48.00
PUMP TOTAL HEAD Feet of water	20.51
<i>Friction head loss in force main (feet per 100 feet) (Reference only)</i>	4.38

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



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