

Worksheet: Pump Head Pump BELOW Main Tank



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**Pump BELOW Main Tank
 Total Head Required for Day Tank Installation**

Please complete the following before beginning the worksheet:

Vertical Pipe Length: _____ Pipe Diameter: _____ Elevation Above Sea Level: _____
 Horizontal Pipe Length: _____ Pump GPM: _____ Motor HP: _____ In Line Fitting Types: _____

Refer to data tables in Tramont's "Day Tank Pump Capabilities" specification sheet as indicated.

1. Total vertical length of pipe (pump inlet to day tank inlet)..... _____ ft.
2. Total length of pipe (Vertical & Horizontal) _____ ft.
 (Each size pipe in the line must be calculated individually).
3. Additional length as a result of in line fittings (See Table Two) _____ ft.
4. Add results of #2 and #3..... _____ ft.
5. Divide results of #4 by 100 _____ C ft.
6. Pipe size (diameter)..... _____ inch
7. Pump capacity _____ GPM
8. Frictional head loss (See Table One) _____
 per 100 ft. (Horizontal)
9. Additional head loss – multiply results of #5 by #8 _____ ft.
10. Repeat steps in items #2 thru #9 for each pipe size used in line..... _____ ft.
11. Total head capacity needed (Add results of #1, #9, and #10) _____ ft.
12. Pump discharge pressure (See Table Four)..... _____ psi.
13. Available pump head (Multiply results of #12 by 2.31) _____ ft.
14. Subtract results of item #11 from item #13 _____ ft.

- If results of item #14 are positive, the system is properly sized.
- If results of item #14 are negative, the system is beyond a safe lifting capacity.