

AA TANKS

PLAIN STEEL STYLE ·HYDRO-PNEUMATIC TANKS
Sizing for Hydro-Pneumatic Tanks

Job Name: _____ Date: _____

Job Location: _____ Salesman: _____

Contact Name: _____ Model #: _____

Information Required:

1. Drawdown (Water tank must supply)
- _____ gallons
2. Minimum Pressure (Pump tum on Pressure)
- _____ PSI
3. Maximum Pressure (Pump shut off Pressure)
- _____ PSI

Model Selection:for Plain Steel style tanks

4. Enter Required Drawdown. (from line 1. above)
- _____ gallons
5. Determine the Acceptance Factor (Af), $Af = (P_a \div P_f) - (P_a \div P_o)$
Where P_a = Atmospheric Pressure
 P_f = Minimum Pressure (atmospheric)
 P_o = Maximum Pressure (atmospheric) Enter _____
6. Divide line 4 by line 5, enter total tank volume.
- _____ gallons

Example: from Example page 3

1. Drawdown
- 50 gallons
- Acceptance Factor
 $P_a = 14.7$ at sea level
2. Minimum Pressure
- 44.7 PSIa
 $P_f = 30 \text{ PSI} + 14.7$
3. Maximum Pressure
- 59.7 PSIa
 $P_o = 45 \text{ PSI} + 14.7$
4. Drawdown from line 1
- 50 gallons
5. Acceptance Factor: $(14.7 \div 44.7) - (14.7 \div 59.7)$
- 0.08263
6. Divide line 4 by line 5, Enter Total Tank Volume
- 605.12 gallons