

## Propane Tank Filling Guide

Propane tanks should always be filled by weight, not the propane capacity of the tank. The reason is the tank may not be completely empty.

### How to determine the Weight of a Propane Tank when Full

To determine the weight of the tank when full, multiply the water capacity (W.C.) stamped on the cylinder by .42. Next add the cylinder tare weight. Example 20# Tank:  $(47.8 \times .42 = 20) + 18 = 38$  lbs. See below charts and image examples.

WC	LBS PROPANE	WC	LBS PROPANE
2.39	1	35.8	15
4.78	2	38.2	16
7.17	3	40.6	17
9.56	4	43.0	18
11.9	5	45.4	19
14.3	6	47.8	20
16.7	7	59.7	25
19.1	8	71.7	30
21.5	9	78.8	33
23.9	10	83.6	35
26.2	11	95.6	40
28.6	12	105.1	44
31.0	13	119.5	50
33.4	14	239	100



Pounds	Gallons*	BTU @ 60°F	Therms	Volume Ft <sup>3</sup>	Diameter* (Inches)	Height* (Inches)	Tare Weight* (Pounds)
4.23	1	91,502	0.9	36.38	na	na	na
1	0.24	21,594	0.2	8.59	na	na	na
5	1.2	109,802	1.1	43.66	8	8.6	10
10	2.4	219,605	2.2	87.31	8.9	13.8	15
20	4.6	420,909	4.2	167.35	12.2	18.9	18
30	6.8	622,214	6.2	247.38	12.2	19.6	25
33.5	7.9	723,415	7.2	287.62	12.2	21.8	36
33.5**	7.4	677,115	6.8	269.21	12.3	22.4	24
40	9.2	841,818	8.4	334.70	12.2	25.6	32
43.5	9.9	905,870	9.1	360.16	12.2	27.8	44
43.5**	9.9	905,870	9.1	360.16	12.3	28.8	25
50	11.4	1,043,123	10.4	414.73	15.1	21.8	42
60	13.7	1,253,577	12.5	498.41	12.2	37.4	46
100	22.9	2,095,396	21.0	833.10	15.1	41	70
200	45.6	4,172,491	41.7	1658.93	24	34.1	152
420	95.9	8,775,042	87.8	3488.84	30	45.6	278

\*Specifications based on Manchester Tank USA cylinders  
 Specifications will vary by manufacturer  
 \*\*Data for aluminum forklift cylinder  
 NOTE: Some numbers have been rounded  
 Copyright © 2015 ELGAS

The Propane Conversion Value Table is a Copyright © of ELGAS

## Propane Tank Filling Guide

### How to Safely Fill a Standalone Propane Tank

1. Check the date stamp on the tank. The age of the tank cannot exceed 12 years. See image below.



2. The cost to fill a motor home RV tank is dependent on the amount of propane dispensed. To insure an accurate accounting of the amount of propane dispensed, it is important to set the pump numbers back to zero after filling any type of propane tank.
3. Set the scale to the calculated Weight of a Propane Tank when Full. See examples below.  
**Example 20# Tank:**  $(47.8 \times .42 = 20) + 18 = 38 \text{ lbs.}$   
**Example 30# Tank:**  $(71.7 \times .42 = 30) + 25 = 55 \text{ lbs.}$   
**Example 40# Tank:**  $(95.6 \times .42 = 40) + 32 = 72 \text{ lbs.}$
4. Check to insure the valve on the propane tank to be filled is closed.
5. Connect the propane dispensing hose (left hand thread) to the propane tank to be filled.
6. Turn on the propane dispensing tank motor.
7. Open the lever valve on the propane dispensing hose.

## Propane Tank Filling Guide

8. Open the valve on the propane tank to be filled.
9. When the scale tips...
  - a. Close the lever valve on the propane dispensing hose.
  - b. Close the valve on the propane tank to be filled.
  - c. Turn off the propane dispensing tank motor.
10. Set the pump numbers back to zero.

### How to Safely Fill an RV Motor Home Propane Tank

1. Check to insure everyone including pets have exited the RV.
2. Set the pump numbers back to zero.
3. Check to insure the valve on the propane tank to be filled is closed.
4. Attach the (right hand thread) propane hose adapter.
5. Connect the propane dispensing hose (left hand thread) to the propane hose adapter.
6. Turn on the propane dispensing tank motor.
7. Open the lever valve on the propane dispensing hose.
8. If the tank has a gauge, when the gauge reaches  $\frac{3}{4}$  full, open the pressure release valve slightly, When you see the vapor turn to liquid, close the pressure release valve and lever valve on the propane dispensing hose.
9. Turn off the propane dispensing tank motor.
10. Set the pump numbers back to zero.
11. The only person that is allowed to open the valve on the RV propane tank is the operator of the vehicle.



\* It is important to stay up-to-date on all state laws and regulations regarding the dispensing of propane.