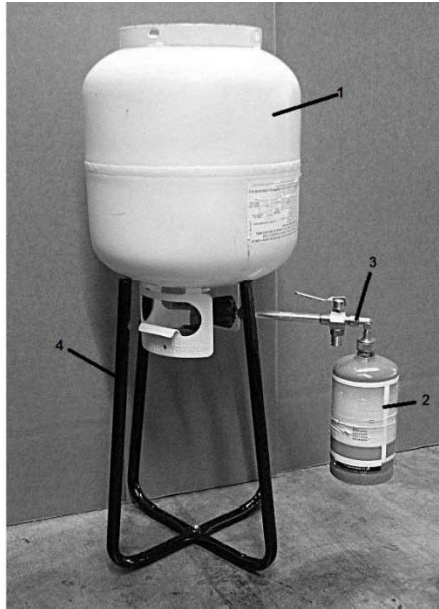


5.5 Cylinder Filling Procedure – Volume Method

CAUTION

Do not fill a cylinder that you consider to be unsafe, does not pass the pre-fill visual inspection or is out of date.

The following photograph shows a 1 Lb. refillable propane cylinder connected to the 20 lb liquid propane supply cylinder ready to be filled.



- 1- Liquid supply cylinder
- 2- 1 lb. refillable cylinder
- 3- Fill assembly
- 4- cylinder stand

Propane cylinders equipped with a dip tube, such as the 1 lb. refillable propane cylinder, can be filled by the volume method. The maximum permitted liquid propane volume is 80%. This leaves a 20% vapor space for expansion of the liquid propane.

The supply cylinder service valve has a back check valve that prevents the flow of liquid propane until the back check is pushed open by the probe of the fill assembly connection. If the cylinder service valve is in the “open” position when you go to connect the fill assembly to the service valve you could be sprayed with liquid propane.

WARNING

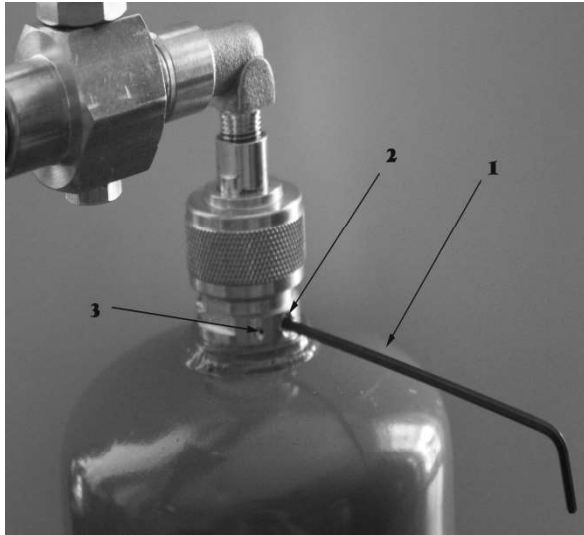
Failure to ensure that the propane liquid supply cylinder service valve is in the “closed” position prior to connecting the fill assembly could result in being sprayed with liquid propane.

Warning

Failure to wear the proper protective clothing when filling the 1 lb. propane cylinder could result in freeze burns to exposed skin or creating an ignition source by arcing static electricity.

1. Check to ensure that the supply cylinder service valve is in the closed position by turning the valve handle wheel clockwise until tight.
2. Make sure the cylinder stand is securely built and on a flat stable surface.
3. Turn the 20 lb ‘supply cylinder’ carefully upside-down into the cylinder stand.
4. Connect the liquid fill assembly to the supply cylinder service valve by turning the fill assembly’s knurled connector clockwise, hand tighten.
5. Remove the plastic cap and carrying handle from the 1 lb. refillable cylinder by turning the cap counterclockwise.
6. Line up the plastic guide and connect the 1 lb. refillable cylinder to the fill assembly by turning the fill assembly’s knurled connector clockwise, hand tighten.
7. Slowly open the supply cylinder service valve and check for leaks. Repair any leaks prior to proceeding.
8. Using the allen key wrench provided, open the fixed liquid level gauge valve by turning the allen key wrench counterclockwise.
9. Push down on the dead man valve to allow propane liquid to flow into the 1 lb. refillable propane cylinder.
10. When a white fog (liquid propane) is observed escaping from the fixed liquid level gauge bleed vent, immediately release the dead man valve handle to stop the flow of liquid propane into the 1 lb. cylinder.
11. Immediately close the fixed liquid level gauge valve of the 1 lb. propane cylinder by turning the allen key clockwise until the valve is closed, stopping the escape of propane.
12. Close the supply cylinder service valve by turning the valve handle clockwise until tight.
13. Slowly disconnect the 1 lb. refillable cylinder from the fill assembly, replace the plastic cap and carrying handle.

- Carefully lift the supply cylinder off of the stand and return to the right side up position. The cylinder must not be inverted on the stand for more than 10 minutes.



- Allen Key
- Fixed Liquid Level Gauge
- Fixed Liquid Level Gauge Bleed Port

Depressing Dead Man Valve to fill 1 lb. Cylinder

WARNING
NEVER USE A CYLINDER THAT IS LEAKING OR OVERFILLED

If a cylinder is leaking or has been overfilled place outdoors in a secure well-ventilated area away from ignition sources etc., and contact your propane supplier for assistance in dealing with the problem.

WARNING
Never leave the 20 Lb propane cylinder in the inverted, upside-down position, for more than ten (10) minutes.