



Troubleshooting Blowout Problems

If you are having blowout problems with your gas valves, there are a few things to check to insure your lantern is set correctly

Your flame pattern should be about 1-2 inches high and 1-2 inches wide

The pattern should have two distinct flame tips, what we call a bat flame

If your flame does not look like that, you may have a pressure problem. Your gas pressure should be between 7-10 water columns PSI (less than ½ lb of pressure)

If you have a good flame pattern:

- Check to make sure your glass is tight against the frame of the lantern. Each glass pane is secured by bendable copper tabs. Make sure these tabs are making the glass snug against the frame
- The lever on the gas valve at straight up 12 o'clock is wide open. That is not the most stable flame, Turn the lever to about 1 o'clock to produce the most stable flame.
- You can also loosen the top brass ball to get to the cap, under the cap are nuts used as spacers, you can remove them, and twist the nipple down into the chimney and then re-install. The tightened cap will cut back on air, or rain getting into the lantern body.
- There are usually 8 holes in the bottom of your lantern, you can cover some or all of them with pennies to cut down on air entering the lantern during windy conditions

For Propane stems

- To make sure you have the correct tip. Our propane stems have a venturi hole drilled all the way through the base of the stem and the #80 stamped on it. Natural gas stems are solid brass with #75 stamped on it.
- If your stem is burning from the tip and the venturi hole (two flames), The gas pressure to the valve is too high, it is creating backpressure at the tip and forcing propane out the venturi hole and then it ignites. That rich condition will produce black soot on the glass.
- There are two ways to drop the gas pressure. Have an adjustable fuel pressure regulator installed inline going to your gas lanterns. Pressure should be 7-10 water columns, (under ½ lb PSI) this setup burns about 1200 BTU's, **OR** adjust down the manual valve to a level that reduces the amount of fuel flowing to the tip to make sure there is no back pressure.

If you have tried all these tips and still are having blowout problems you can purchase our wind guard, which slips right over the valve stem to protect the flame source

Primo Lanterns 225-296-6610 if you have any questions