Propane Safety

DANGER:
IF YOU SMELL GAS:
1. SHUT OFF GAS TO APPLIANCE
2. EXTINGUISH OPEN FLAMES
3. OPEN LID (IF APPLICABLE)
4. IF ODOR CONTINUES, KEEP AWAY FROM THE APPLIANCE AND IMMEDIATELY CALL YOUR GAS SUPPLIER OR FIRE DEPARTMENT.

LEAKING GAS MAY CAUSE FIRE, EXPLOSION, PERSONAL INJURY, DAMAGE TO PROPERTY, AND DEATH.

WARNING:
An LP Cylinder not connected for use should not be stored in the vicinity of a gas or charcoal appliance

ALL BIG JOHN EQUIPMENT IS DESIGNED FOR OUTDOOR USE ONLY.

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PROPANE SAFETY - GENERAL

- Liquid propane (LP) gas is a petroleum product as are gasoline and natural gas. In normal temperatures and pressures, LP gas is a gas. When moderate pressure is applied, inside a cylinder, LP gas becomes a liquid. As the pressure is released the liquid readily vaporizes and boils off as a gas.

- LP gas has no odor, but rather an odor additive so you can smell it.

- Propane gas is denser than air, if a propane tank purges to relieve pressure build-up, the propane will collect in low lying areas. These areas can be easily ignited and are highly flammable. Use caution when dealing with a propane tank that may have recently self-purged.

- **DO NOT** paint propane tanks any color other than white. Any alteration to tank color will result in tank purging, fire, personal injury, or death.

- Big John Grills & Rotisseries uses high quality Worthington Cylinders in 30 lb. and 40 lb. sizes. These tanks are protected with a rust-resistant white powder coat finish.

- Always keep the cylinder valve closed when not in use.

- Cylinders are designed to function with the valve completely open or completely closed, there is no in-between. Never open the valve just a “crack” or “half way”.

- Always position the propane cylinder so that the connection between the valve and the regulator will not cause any sharp bends in the hose.

- NEVER store or use propane cylinders indoors.

- Make sure the POL or QCC Connector is free from scratches or nicks which can cause gas leaks.

- **DO NOT** store or use gasoline or other flammable liquids or vapors in the vicinity of a gas appliance.

- **DO NOT** store extra liquid propane cylinders within the vicinity of a gas appliance.

- **DO NOT** store a liquid propane cylinder in/on any part of an appliance not intended for such use. Improper storage of a cylinder could lead an explosion, fire, personal injury, or death.

- **DO NOT** store or lean items against unit surface or fuel cylinders while operating.

- Shut off unit and all gas sources if the odor of unburned gas is detected. Make no attempt to use the unit until gas leaks are fixed and/or the odor is accounted for.

- Do **NOT** use a damaged, dented, or rusty LP cylinder or a cylinder with a damaged valve - replace with a new one immediately.

- Replacement LP tanks must match the regulator connection supplied with this grill and be a minimum of 30 lb. capacity.

**LIQUID PROPANE TANK REQUIREMENTS**

- For tanks not purchased from Big John Grills & Rotisseries: check to be sure cylinders have been tested within the past 5 years and have a D.O.T. certification. Your LP gas supplier can do this for you.

- All LP tank supply systems must have a collar to protect the cylinder valve.

- All tanks used on Big John Grills equipment must be a minimum of 30 lb. size.

- Tanks larger than 100 lbs. in size may require a POL for connection. Please call a Big John Customer Service Representative if you are using a 100 lb. propane tank.
DISCONNECTING AND TRANSPORTING PROPANE CYLINDERS FOR REFILLING

- Turn off all control knobs and close the main cylinder valve. Disconnect regulator with QCC.
- Place cylinder valve plug snugly in the main cylinder valve outlet. Only use the cylinder valve plug that is provided with the cylinder. Other types of caps or plugs may result in leakage of propane.
- Treat “empty” LP cylinders with the same care as full ones. Even when the tank is empty, there is still some gas pressure left in the cylinder.
- Always transport and store propane cylinders in a secure, upright position. Never store these propane tanks on their side, handle them roughly, or drop them.
- Never keep propane cylinders (full or empty) in a hot vehicle. Heat can cause the relief valve to purge propane creating a very dangerous situation.
- To fill, take the LP cylinder to a propane gas dealer  **WARNING:** We strongly recommend that your LP cylinder be filled by an authorized propane dealer, by a qualified attendant, who fills the tank by weight. IMPROPER FILLING IS DANGEROUS.
- Air must be purged from a new LP cylinder before the initial filling. Your LP dealer will do this.

STORING PROPANE CYLINDERS

- Turn off all control knobs and close the main cylinder valve.
- Place cylinder valve plug or cap snugly in main cylinder valve outlet.
- Always store propane cylinders in a secure, cool/dry place in the upright position.
- Never store propane cylinders in a vehicle of any kind and or anywhere the temperatures can reach 125° F.
CONNECTING A FILLED 30 LB. CYLINDER

- Remove the main cylinder plug.
- Make sure that all gas valves on the grill are in the “OFF” position.
- Thread the QCC Connector or POL Connection snugly into main cylinder.
- ALWAYS check for leaks. Apply soapy water with a brush or spray bottle to areas where the QCC (or POL) screw into tank, where the QCC (or POL) attach to regulator, where the hose screws into the regulator, and where the hose screws into the appliance.
- Open the cylinder valve and watch for bubbles.
- If bubbles appear, tighten the connections further. If this does not remedy the problem, call your propane dealer.
- If the system is free of leaks, light the burners and proceed to cook.
- In the event of a QCC failure, your grill will not light or stay lit, see page 6 for troubleshooting.

If you suspect any problems, have your grill and tank serviced by a qualified professional.

Spray Soapy Water on All Propane Connections between Cylinder Valve and Unit to Test for Leaks

Cylinder Valve to QCC Connection

Hose to Regulator Connection

Hose to Unit Connection

Lime Green QCC to Regulator Connection
PROPAINE SAFETY - QCC

HOW A QCC VALVE WORKS

There is a safety check valve inside our bright green QCC-1 fitting. Once the regulator is connected to the propane tank and the main cylinder is "OPEN", a minimal amount of gas is allowed to flow through the check valve. If there are no downstream leaks, the pressure on both sides of the check valve will equalize and the spring loaded stopper will open allowing maximum gas to flow. This only takes a few seconds to complete and then you can start the lighting procedure.

IF THE QCC INDICATES FAILURE

If there is a downstream leak, or if you have started with a control valve “OPEN”, the pressure will not equalize on both sides of the QCC check valve and it will fail. The only gas flow you will have is a small amount that is designed to flow around the check valve, the equivalent of 5,000 BTU’s. This may allow you to light part of a burner, but not much more. When you open a control valve to light another burner, you will not get any additional flame and may experience a blow out where none of the burners will light. In case of a QCC failure, follow procedure below:

TO TROUBLESHOOT THE PROBLEM

CHECK: 1. Check that all of the control valves are in the “CLOSED” position.
2. Check that you are using at least a 30# propane tank
3. Check that the QCC is lime green - black or dark green will cause lighting problems.
If everything is correct, reset the system.

SOLUTION: To reset: Close all of the control valves on the UNIT & close propane tank valve. Then start the lighting procedure from the beginning. If the problem persists, Check for Leaks:

If you experience a QCC Failure, first check your system for leaks:
1. Turn off all control valves and turn off propane tank
2. Extinguish any remaining open flames
3. Let gas dissipate until odor is no longer detected
4. Make sure all control valves are closed and gas tank valve is off
5. In a spray bottle, mix together dish soap and water
6. Spray the following with soapy water mixture
   a. Tank Valve to QCC (part that screws into tank from regulator)
   b. QCC to Regulator
   c. Regulator to Hose
   d. Entire hose
   e. Hose to Unit
   f. Each Control Valve where it Connects to Manifold
   g. Manifold end cap (opposite side from hose connection)
7. Turn on propane tank
8. Inspect each connection and length of hose for any bubbles being produced
9. If bubbles are detected (bubbles indicate gas is escaping), turn off propane tank and call Big John Grills to order replacement parts. Do not go to your local hard-ware store.
10. If no bubbles are detected, check to see if propane tank is empty.
11. If tank is not empty, please call Big John Grills for further assistance

If you need assistance at any time please call
Big John’s Customer Service at 1-800-326-9575 or 814-359-2755
PROBLEM: Frozen Regulator

CAUSE: Water in fuel or use of under-sized propane cylinder

SOLUTION: Make sure your propane tank is standing up vertically. Horizontal tanks cannot be used on Big John appliances. The two models of gas regulators that Big John has used over the years are the Marshall Brass model 230 and now the Gas-Flo model GR-800. Anything other than these two models of regulator is “after-market” and is not approved by Big John Corporation.

If you are using one of the two regulators listed above, please see below for possible solutions. If you are not, please call Big John Grills to purchase a replacement regulator.

1. Check that you are using at least a 30 lb. propane tank as most Big John equipment requires a minimum of a 30# propane tank due to the BTU draw. Use of 20 lb. cylinders is only acceptable for an appliance with a BTU draw of 60,000 BTU’s or less. The more volume of LP fuel you are drawing from, the less likely you are to experience a freeze-up. Once a freeze-up occurs you can ether switch tanks or pour warm water over the tank valve and QCC connector. Make sure the vent hole in the regulator is pointed downward so no water gets in the regulator. Freeze-ups are most likely to occur in high humidity or extremely cold situations.

2. If you continue to have freeze-up issues, there is a possibility that condensation in the fuel is the cause of the problem. Condensation can accumulate in the propane tank if it was not purged correctly when it was put into service. Take the tank to your professional filling station and ask them to purge the tank before re-filling.