

This month's topic comes from our Customer Relation department and is a frequent subject of calls. The caller states his regulator doesn't switch over when the one LP tank is empty and wants to know what the problem is and why it has failed. Or that when he takes the empty tank off he still smells propane. Most often they have not followed the correct operating procedures.

The following explains the purpose of the two-stage regulator and should help answer the correct operating procedures.

LP Regulator

The Model 250 two-stage change over regulator offers the convenience of changeover from empty to full gas cylinders, plus the additional efficiency of two-stage pressure regulation. The top portion of the changeover is a dual high pressure regulator, which reduces container pressure to approximately 10 to 15 PSIG and sends it to the second stage regulator, which completes the regulation process by reducing the 15 PSIG inlet pressure down to 11 inches of water column (0.4 PSIG) outlet pressure.

(PSIG - pounds per square inch gauge.)

Model 250 Marshal Brass Regulator with LP tank hoses and swivel nuts



Operation:

Make sure there is propane in both cylinders before you start. Rotate the black lever on the top front side of the regulator toward the cylinder you want to use first. This will be the "service" cylinder and the other will be the "reserve" cylinder. Slowly open both cylinder valves. The indicator on the top of the regulator will turn bright green. The indicator color will stay green as long as there is fuel coming from the service side. When the service cylinder empties, the regulator will start drawing from the reserve cylinder providing an uninterrupted fuel flow to the system. When it

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switches over, the indicator color changes from green to red. This red color indicates that the service cylinder is empty and needs to be filled. To remove the empty cylinder, rotate the black lever all the way over towards the reserve cylinder. The indicator will turn green and the reserve cylinder becomes the service cylinder. Now shut off the cylinder valve on the empty cylinder. Now disconnect the cylinder and have it refilled. After filling, reconnect the pigtail and slowly open the cylinder valve. The full cylinder now becomes the reserve cylinder.

Green Lp Hose Nut



The G-1851-A03 appliance side swivel nut fitting is female 1-5/16" ACME x 1/4" MPT. As the appliance side of the Type I connection, it makes a positive connection by threading on to the ACME threads of the LP tank valve with a user-friendly right hand turn motion. The fitting is thermally sensitive and shuts-off the flow of gas if the temperature reaches a range of 240°F - 300°F. This feature protects against uncontrolled fires and causes the cylinder valve's back check to close, shutting off the flow of propane.

Inside the brass nipple portion is a flow-limiting device that limits the gas flow to 10 SCFH (standard cubic feet per hour) maximum flow when activated.

- **User-friendly** – Right hand, wrench-less, easy grip swivel nut
- **Positive Seal** – Gas will not flow until a positive seal has been achieved

- **Thermally Sensitive** – Sleeve yields allowing back check to close, shutting off gas flow at the cylinder
- **Flow-limiting device** – Senses excessive flow in gas regulator and closes flow down to a maximum 10 SCFH of air at 100-PSI bypass flow

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