
INSTRUCTIONS

For SK-series burner with added pilot / safety system
(SK-1-SS w/ opt pilot system)

- A. GENERAL DESCRIPTION** – Model designations of SK series burners are designed to be operated on VAPOR PROPANE ONLY (vapor LPG) at fuel delivery of 25 psig or less. Operating this equipment over 25 psig fuel delivery pressure will result in component failure and may cause a fuel leak.
- B. INSTALLATION** – The burner must be secured to the appliance as outlined in the original equipment manufacturers operations manual. The burner must be mounted in an area which will allow fresh air to circulate around the burner. The burner must be mounted away from all flammable objects. When firing into a flue or firing chamber, be certain the system design and burner are compatible. There must be sufficient flue volume and exhaust area for proper operation. The burner must not be mounted inside the firing chamber.
- C. GAS PIPING** – Gas service and piping must supply the quantity and pressure of the fuel demanded by the burner. All hoses and piping must be in strict accordance with all applicable codes, ordinances and regulations of the governing authority for the area where the burner is to be used. In the absence of these codes, all piping should be in accordance with the following standard:

National Fuel Gas Code – NFPA No. 54, ANSI No. Z223.1

The gas piping must be internally cleaned and free of foreign material. Before using any burner or burner system, a leak test must be performed by a qualified gas technician.

- D. STARTING & OPERATING** – When installation is complete and all gas piping has been tested to be free of any leaks, the following start-up procedure can be used.
- 1) Turn the shut off valve (90 deg Ball Valve), on the inlet of the burner, to the OFF position.
 - 2) Turn the throttling valve (small tee wing valve), midway on the burner, to the CLOSED – fully clockwise position.
 - 3) Make sure the pressure regulator, supplying fuel to the burner, is adjusted to approximately 10 psig (your gas technician can assist you with this).
 - 4) Open the main fuel supply valve on your propane supply source (contact your gas technician for the location of this valve).
 - 5) Open the shut off valve, on the inlet of the burner, to the FULLY OPEN position.
 - 6) Depress and hold the red button on the safety valve. This will allow fuel to escape from the small pilot burner.
 - 7) Immediately ignite the fuel at the pilot burner using a flint-type striker.
 - 8) After a pilot flame is established for approximately 20 seconds, you may release the red safety button. The pilot flame should remain strong and stable. If not, you may repeat steps 6 – 8 up to 3-more times. If after 3-attempts to establish a pilot flame and the pilot will not remain lit, you should shut-off all fuel to your system and contact a qualified gas technician for repair.
 - 9) Once pilot flame is established and maintained, use the throttling (small tee wing valve) to allow for main burner operation. You can increase or decrease main burner operation by using this valve.

To discontinue use ALWAYS turn off the fuel supply valve (installed by your fuel provider) first, and allow the burner system to burn all remaining fuel in the gas lines. After the flame is extinguished, turn OFF both the throttling valve and the main burner shut-off valve.