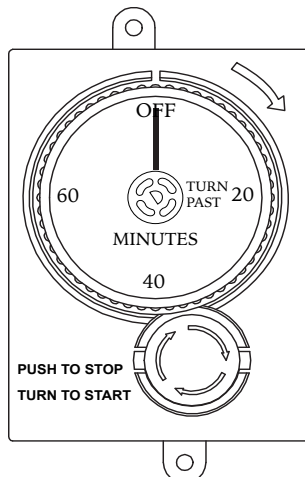




SKYTECH
PRODUCTS GROUP

E-Stop Gas Timer



U.S. PATENT
10,520,108

Model: ESTOP1-0H

WARNING

- Read these instructions carefully. Failure to follow these instructions completely could damage the product or cause a hazardous condition.
- Check the ratings given in the instructions and on the product your installing to make sure the Gas Timer is suitable for your application. See description below.
- Installer must be a trained, experienced service technician or gas plumber.
- The Gas Timer **MUST** be installed in accordance with local codes or, in the absence of local codes, in accordance with the National Fuel Gas Code ANSI Z223.1/NFPA54, of the Natural Gas & Propane Installation code, CSA B149.1 as applicable.
- The Gas Timer **MUST** be installed in-line between the required primary gas supply shut off valve and the gas appliance. It **MUST NOT** be used as the primary shut off.
- The Gas Timer must be accessible to operate and installed in an area where the ambient temperature will be less than 170°F to prevent possible over heating, causing damage to the timer that could result in a leak.
- This is a Gas Timer and Emergency Shut Off therefore, the gas timer is intended be installed outside the gas appliance to enable the user to turn OFF the gas appliance in case of an emergency.

Description The ESTOP1-0H Gas Timer is an emergency shut-off, mechanical timer, and manual shut-off gas valve designed to be installed on the inlet side of a gas appliance to enable the user to control the time gas is allowed to flow to a gas appliance. This is a mechanical timer (no batteries or power required) that has the ability to control gas flow for 1-hour (60 minutes). In addition, the Gas Timer has an emergency shut-off (red knob) that enables the user to quickly and easily shut the gas completely OFF, should the need arise.

The Gas Timer body is 4-inches high x 2 7/8 -inches wide x 2 1/8 -inches deep. It can be use for multiple applications (indoor or outdoor) for gas fire pits, BBQ grills, gas logs, gas torch lights, etc.

CALIFORNIA PROPOSITION 65



WARNING

This product can expose you to Lead, which is known to the state of California to cause cancer and birth defects or other reproductive harm.

(For more information, go to www.p65warnings.ca.gov)



We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

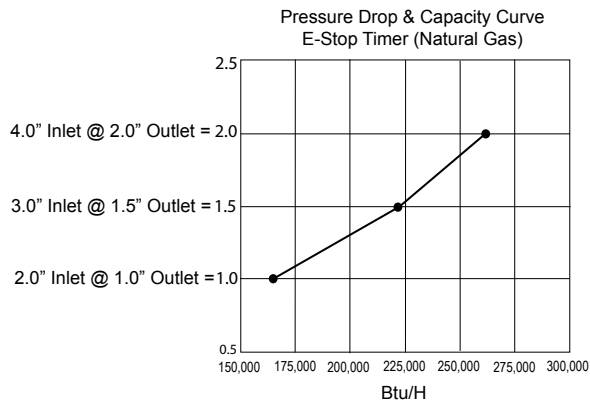


Table 1 Pressure drop and capacity for Natural Gas.

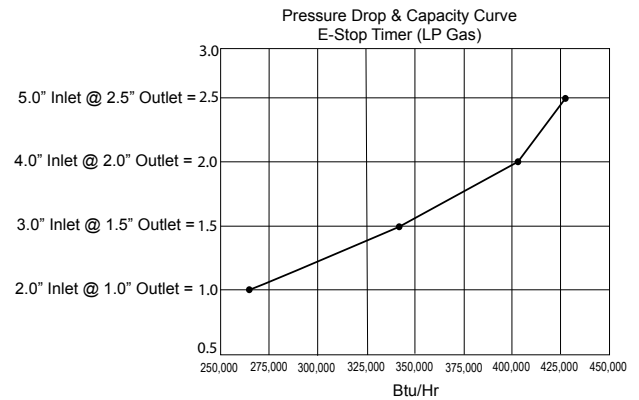


Table 2 Pressure drop and capacity for LP Gas).

Note: Pressure drop information listed is generated in American Flame lab and is to be used as reference only.

Specifications

Pipe Size: ½" NPT (2) inlets and (2) outlets

CSA Rated Capacity: 165,000 Btu/Hr at 1" Pressure Drop (NG)

Timer Accuracy: 60 Min. +/- 15% or 2.5 Hrs. +/- 15%

Multiple Mounting Holes: Uses 3/16-24 machine threads

CSA Certified: Tested to ANSI Z21.21; CSA 6.5

Maximum Pressure: ½" PSI

Ambient Temperature: 0°F to 175°F (79°C)

Inlets: Have fine mesh screens to filter any debris

Designed For: Natural or LP Gas (no conversion required)

Mounting

The ESTOP1-0H Gas Timer has the ability to be mounted from the side of the body, using the four (4) provided holes (two mounting holes per side) or using the two mounting hole tabs at the top and bottom of the body when facing forward. Each mounting hole uses 3/16 - 24 machine screws to secure it into position. **Note:** We recommend using stainless steel screws for any outdoor applications. See Fig. 1 for details.

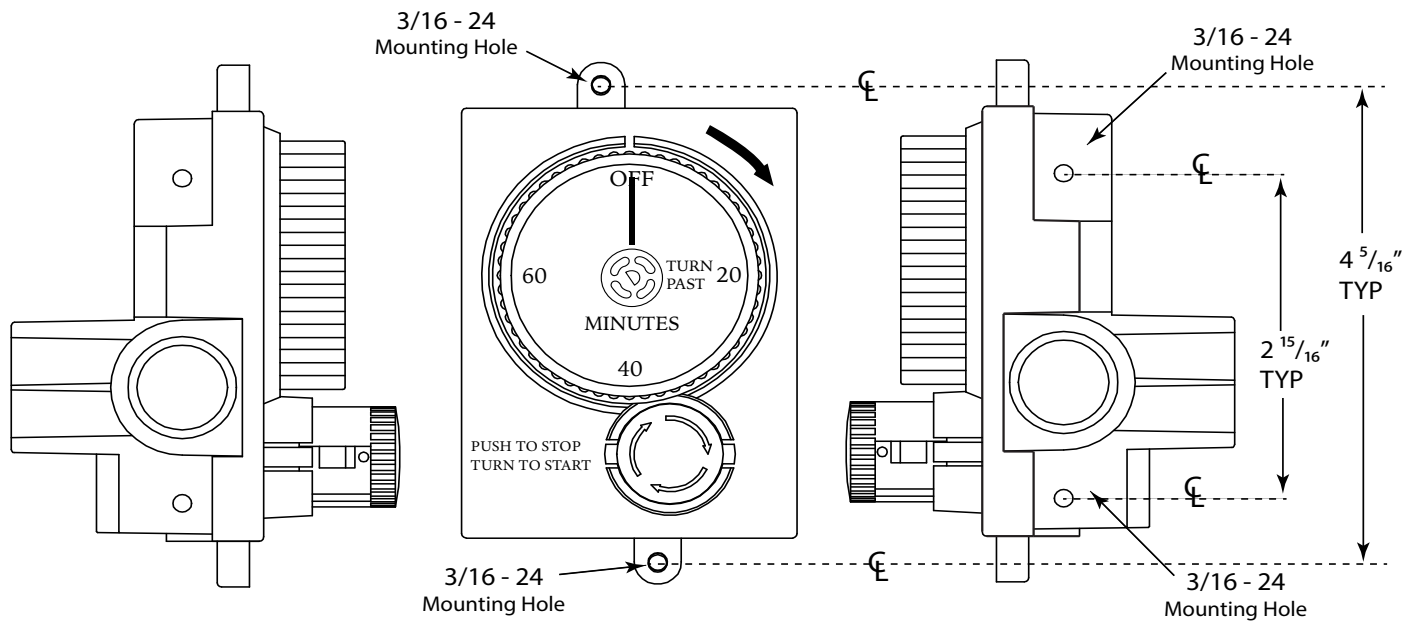


Fig. 1 ESTOP1-0H Gas Timer mounting hole locations applicable to both models.

Installation

The ESTOP1-0H is recommended to be installed in an up-right position as shown in Fig 3, view "D" or Fig. 4. It has two (2) inlet and two (2) outlet gas connections. The diagrams below provide possible ways to plumb the timer (See Fig. 3). Two (2) ½" NPT plugs are provided with the timer. Plug the inlet and outlet connections not being used for the application. Connect gas supply to the inlet with the arrow  pointing into the valve. Connect outlet side to the gas appliance (See Figs. 2 & 3 for details).

NOTE: Conduct a gas leak test on the Gas Timer after plumbing is complete.

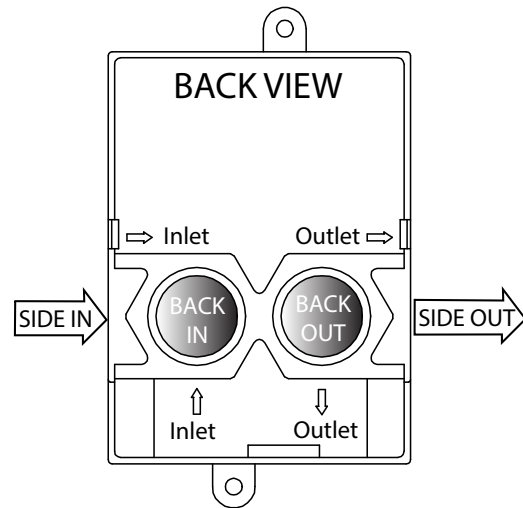


Fig. 2 Inlet and outlet connections.

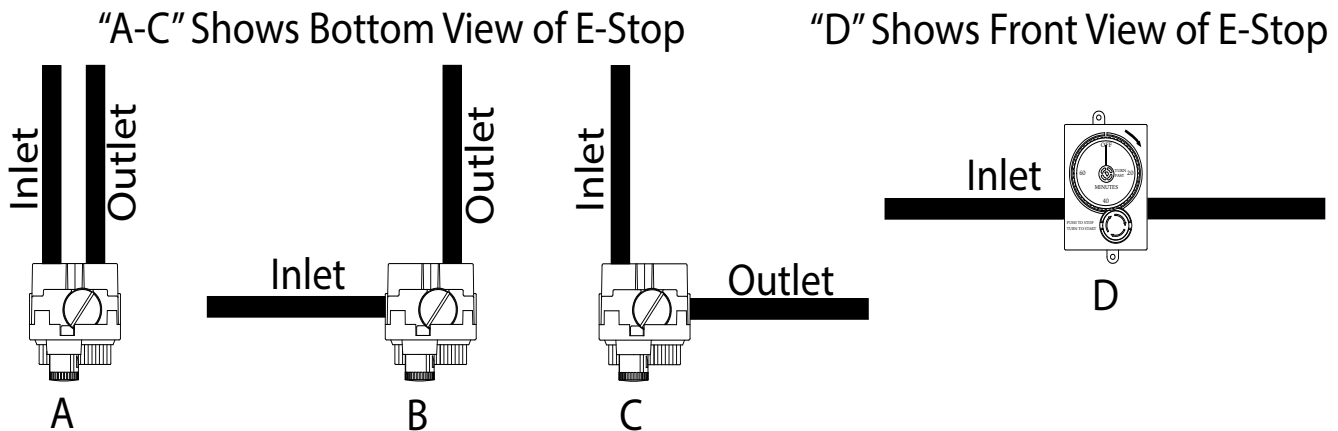


Fig. 3 Plumbing options

Operation

TO TURN ON

Step 1: Rotate the clear timer dial past 20 to set the time. Timer will begin "ticking" when the dial is turned while the countdown time is set.

Step 2: Turn red knob clockwise (about a ¼ turn) until it pops outward. Gas will now flow to enable you to light the appliance.

TO TURN OFF: Let timer expire or simply press red knob inward until it stops. The red knob will lock down with a "click" and stop gas flow. See Fig. 4 and Fig. 5 on following page.

CAUTION: Do not force the timer dial to the OFF position after time is set. This will weaken the spring inside the timer body and can affect the accuracy of the time. When the red knob is pressed inward, gas flow will stop immediately to the appliance. If the timer has any remaining time, it will turn OFF when the time is expired. No gas is flowing when the red knob is pressed inward, even if the timer still is showing time.

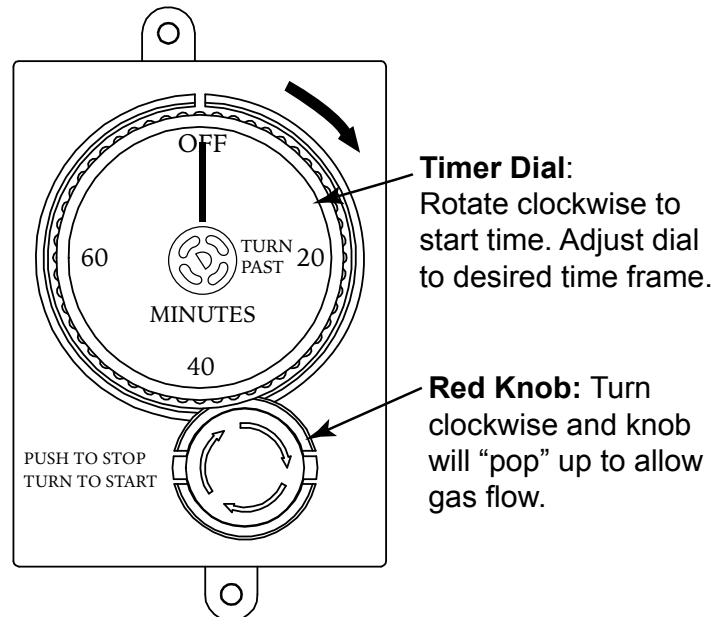


Fig. 4 ESTOP1-0H operation.

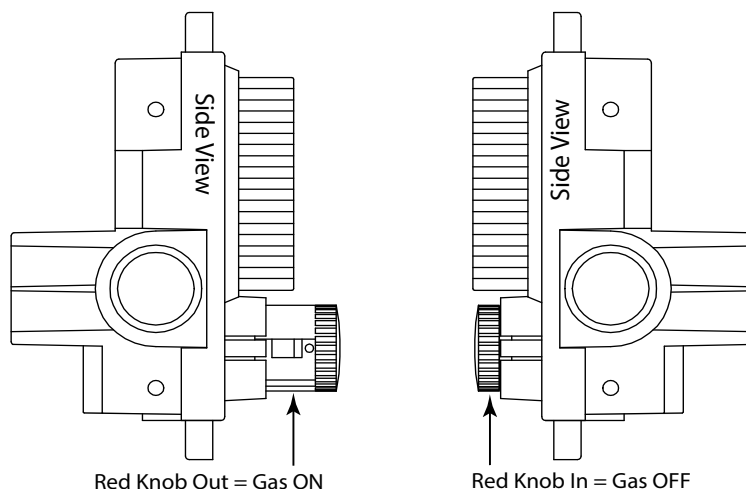


Fig. 5 ESTOP1-0H Gas Timer red knob positions

OPTIONAL ENCLOSURES

E-STOP-LC-KIT : Stainless steel locking cabinet with removable lock.

E-STOP-RM-KIT : Surface mount stainless steel enclosure.

E-STOP-CP-KIT : Surface mount stainless steel enclosure for blocks and paver's. Expands 8" to 12" for various block.

TROUBLESHOOTING

Symptom	Remedy
No gas flow	1. Rotate dial beyond the "turn past" position. 2. Ensure red knob is protruding outward in ON position. 3. Has time has expired on timer? If so re-start timer again. 4. Ensure primary gas supply is turned ON. 5. Ensure the gas timer is plumbed properly. 6. Look for any physical damage. 7. Ensure other gas valves before or after the timer are operating. 8. Check inlet mesh screen for debris blockage.
Gas flow won't stop	1. Timer plumbed backwards? Check inlets and outlets on timer. 2. Excessive gas pressure exceeding the ½" PSI maximum pressure. 3. Plumbed into both inlet lines and not one of the outlets. 4. Look for any physical damage. If so, replace timer.

Limited Warranty

The ESTOP1-0H Gas Timer is warranted for 12 months from the date of purchase or installation to the original purchaser to be free from defects in materials and workmanship. It is designed for INDOOR OR OUTDOOR USE. Damage to the ESTOP1-0H Gas Timer caused by accident, misuse, abuse, or installation error, whether performed by a contractor, Service Company, or owner, is not covered by this warranty. American Flame will not be responsible for labor charges and/or damage incurred in installation, repair, replacement, or for incidental or consequential damage. Some states, provinces, and nations do not allow exclusion or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply. This warranty gives you specific legal rights. You may also have other rights that vary by state, province, or nation.

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