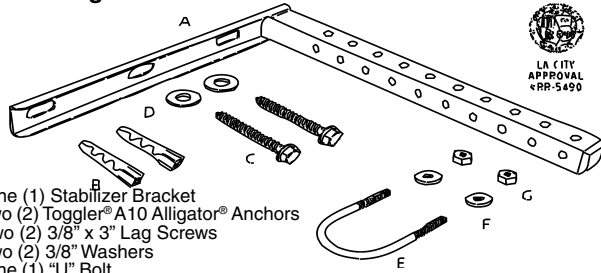


KEEP THIS OWNER'S MANUAL WITH YOUR VITAL HOUSEHOLD RECORDS

NAME: _____ DATE: _____
 INSTALLATION ADDRESS: _____

 INSTALLER _____
 LIC.# _____
 SERIAL #: _____

Little Firefighter® GV-12 STABILIZER BRACKET

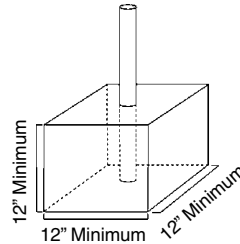


- A. One (1) Stabilizer Bracket
- B. Two (2) Toggler® A10 Alligator® Anchors
- C. Two (2) 3/8" x 3" Lag Screws
- D. Two (2) 3/8" Washers
- E. One (1) "U" Bolt
- F. Two (2) 1/4" Washers
- G. Two (2) 1/4" Hex Nuts

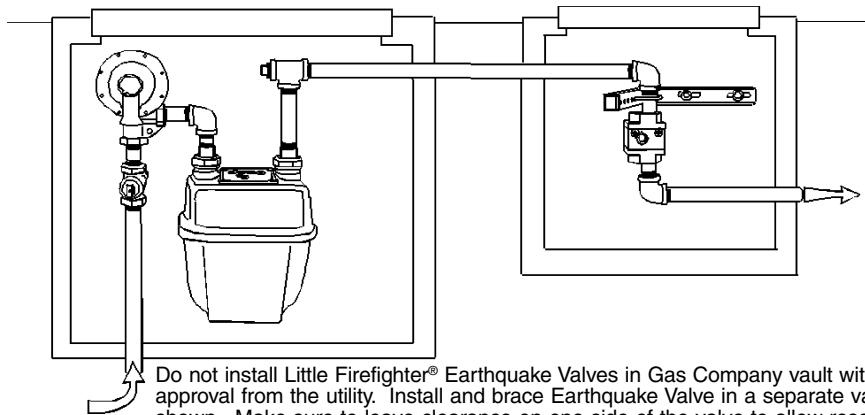
TOGGLER®
Brand Alligator®
Solid State
Chemical® Anchor
 PATENTED UNDER ONE OR MORE
U.S. PATENT NUMBERS
4,294,156; 5,028,186;
5,161,296; AND FOREIGN
 COUNTERPARTS THEREOF.
 OTHER PATENTS PENDING.
TOGGLER AND ALLIGATOR
 ARE WORLDWIDE REGISTERED
 TRADEMARKS OF MECHANICAL
PLASTICS CORP. ©1999 MPC

ISOLATED METER INSTALLATIONS

Isolated meter installations (where meter is located away from the structure) require the construction of a special stabilizing pipe. Place a minimum 3" diameter pipe into a concrete footing measuring no less than 12"x12"x12". Then secure the Little Firefighter® GV-12 Stabilizer bracket to the 3" pipe and the shut-off valve to the GV-12. Shut-off valves must be accessible for reset.



IN GROUND VAULT INSTALLATIONS



Do not install Little Firefighter® Earthquake Valves in Gas Company vault without approval from the utility. Install and brace Earthquake Valve in a separate vault as shown. Make sure to leave clearance on one side of the valve to allow reset. Level Normally.



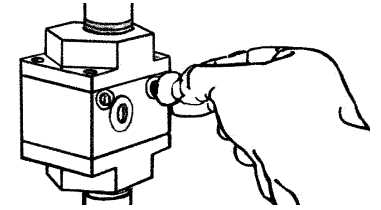
Little Firefighter Valves are proudly made in the USA by:

Firefighter Gas Safety Products
204 S. Center St Santa Ana, CA 92703
www.LittleFirefighter.com



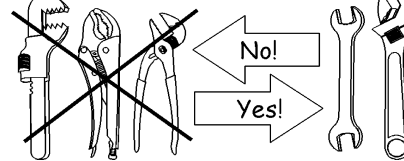
Instructions for Little Firefighter® VAGV-Series
 Earthquake Actuated Automatic Gas Shut-Off Valves
 For Vertical, In-Line Mounting.

20060124-VAGV

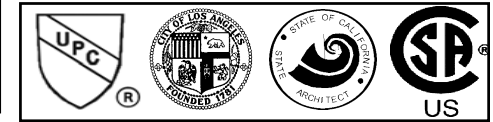


Important Warranty Information

Do not hold valve with pipe wrenches, channel locks, vise grips or pliers. Damage or scaring of the valve body will result. Use only smooth surface wrenches like crescent wrench or an open ended wrench to install valve.
All warranty rights are null and void if the valve body is damaged by improper installation.



"For Little Firefighter's Limited Warranty and Remedies see enclosed page."



Warning: The Manually Reset Earthquake Shut-off, VAGV Series, Valve, must be installed by a qualified installer in accordance with the manufacturer's installation instructions. Properly installed seismic gas shut-off valves will not be activated accidentally by equipment, vehicles or industrial vibrations. If improperly installed, failure to function as intended or unwarranted interruption of gas service could result. The VAGV Series Valve has been tested and approved in accordance with State of California Standard 12-23-1 and ASCE 25-97 Requirements.

INSTALLATION CLEARANCES

Screwdriver access shall be provided to the front of the valve. Allow enough clearance on the front of the valve to view status of the valve.

INSTALLATION

Qualified personal should install the valve. Some cities require submitting a plan to obtain a plumbing permit. Work must be in compliance with local codes, and/or Uniform Plumbing Code.

After an Earthquake or Resetting the valve

AFTER AN EARTHQUAKE
 Wear shoes; expect broken glass. Check for safety of family members. Inspect for: Smell of gas in house. Overturned gas water heaters and appliances and damaged exhaust vents. If any of the above have occurred, or if gas was shut off automatically, shut off the main meter valve. Have a qualified person re-light gas after inspection.

RESET INFORMATION FOR QUALIFIED PERSONS

BEFORE RESETTING: TURN OFF GAS FLOW AT INLET VALVE AND WAIT 5 MIN TO ALLOW GAS PRESSURE ON THE VALVE TO REDUCE. IF INSTALLED ON A HIGH PRESSURE LINE, BLEED OFF EXCESS PRESSURE BEFORE ATTEMPTING RESET. AFTER PRESSURE HAS BEEN REDUCED, TURN RESET SHAFT IN THE DIRECTION INDICATED. IF IT IS HARD TO TURN WAIT LONGER FOR THE PRESSURE TO REDUCE BEFORE RESETTING. FORCING THE RESET SHAFT COULD DAMAGE THE VALVE AND VOID YOUR WARRANTY.

APPROVED GASES

Natural Gas or Propane.

TEMPERATURE

This device operates properly from -20°F to 150°F.

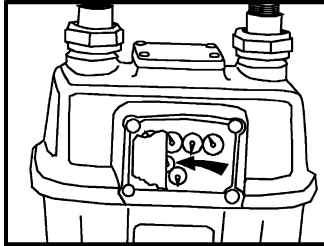
VAGV Series Valve OPERATIONAL TEST

Qualified personnel should perform a functional test every five (5) years as follows: Using a coin or screwdriver, turn the RED (Shut-Off) Shaft 1/8 of a turn (45°) in the direction indicated, closing the valve. To make sure that the valve closed, look in the sight glass: **Red = Closed**. Check that flow of gas has stopped. To reset valve: Close wrench-operated meter inlet valve. After waiting five minutes, reset the valve by turning the green (reset) shaft 1/8 turn (45°) in the direction indicated. The slot on the reset shaft should spring back to its original, vertical, position when the screwdriver is removed. Look for the ball in the sight glass: **Silver = Open**. Turn the wrench-operated meter inlet valve back on. Re-light pilot lights according to manufacturers instructions.

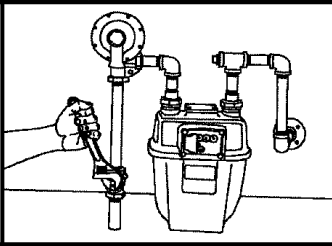
FLOW CAPACITY AND PRESSURE DROP

Valve Model	Flow at 0.5" w. c. Pressure Drop (btu/hr)	Flow at 1.0" w. c. Pressure Drop (btu/hr)
VAGV-75	600,000	895,000
VAGV-100	515,000	765,000
VAGV-125	440,000	650,000
VAGV-125-HF	2,135,000	3,062,000
VAGV-150	2,400,000	3,700,000
VAGV-200	1,800,000	2,500,000

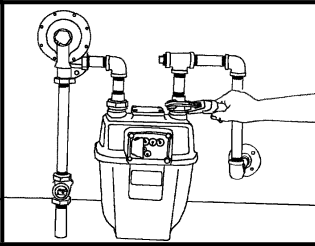
VAGV-SERIES VALVE INSTALLATION INSTRUCTIONS FOR QUALIFIED INSTALLERS



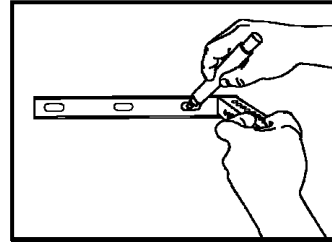
1. Before Starting, check to insure the meter is functioning properly by wetting a piece of paper and pasting it over the centerline of the hand of the 1/2-foot dial of the gas meter. Turn on a gas appliance and observe the motion of the hand after five (5) minutes. Notify the Gas Company if the meter is bypassed or defective.



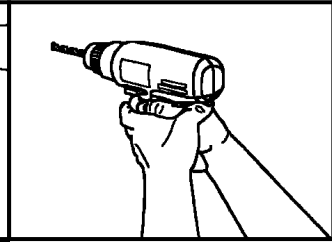
2. After notifying all occupants of affected structure that the gas will be shut off during the installation, shutoff all appliances and pilot light valves. Verify the gas in the house is off with the wet paper method from step #1, and then turn the wrench operated meter inlet valve off. Do not tamper with the meter, or the pipe leading to the meter.



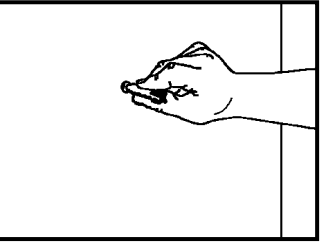
3. Remove the union from the house side of the meter with a pipe wrench and detach the union & tee from the pipe nipple.



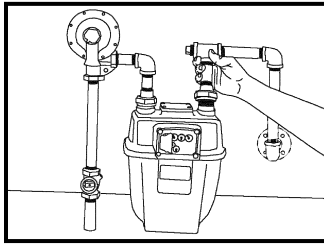
10. To achieve proper stabilization the valve must be secured rigidly to the building structure with the **Little Firefighter GV-12 Stabilizer Bracket**. Placement of the GV-12 should be between the gas meter and valve, and as close to the valve as possible.



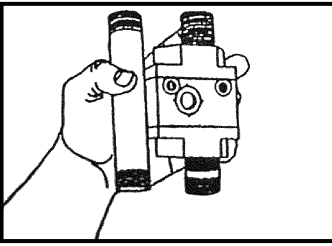
11. To use the 3/8" lag screws, drill two 1/4" holes into the wall where the GV-12 will be mounted. **THE HOLES MUST BE INTO A STUD TO USE THE 3/8" LAGS ALONE.** If studs are not available - use the included A10 Alligator Anchors.



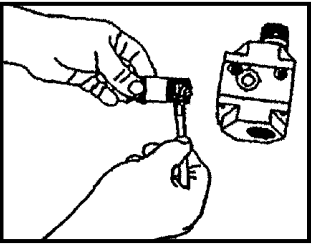
12. To use the ALLIGATOR anchors: Drill two 3/8" holes at least 3-1/2" deep into the wall. Insert the ALLIGATOR anchors into the holes. The anchors can be used in brick, thick stucco, cinder block, etc.



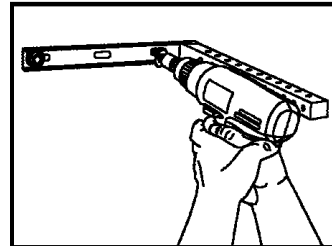
4. Remove the pipe nipple from the line leading to the house. Measure the length of the pipe nipple.



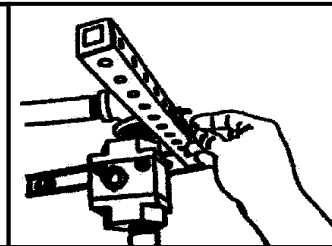
5. Present two shorter pipe nipples, one on each end of the valve so that the ending length will be equal to the pipe nipple removed in step 4.



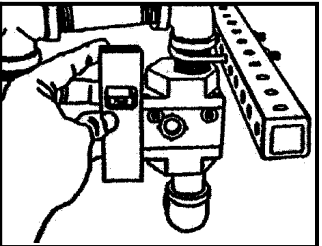
6. Neatly apply a good quality pipe joint compound to the nipples before permanently attaching to the Little Firefighter Gas Shut-Off Valve. **Do not use plumber's tape**, as pieces of the tape may break off and clog or damage the valve. **MAKE SURE THAT NO JOINT COMPOUND GETS INSIDE OF THE VALVE BODY.**



13. Position GV-12 over holes or anchors. Screw in the 3/8" lag screws. A combination of lag screw and wall anchor may be used.

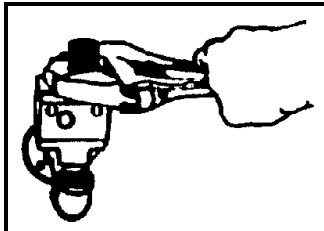


14. Install the "U" bolt around the pipe close to the valve. Place the washers between the nuts and bracket and at this point hand tighten the nuts on the "U" bolt.

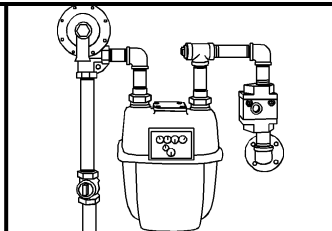


15. To level the valve: Place a level on the side or top of the valve. The Valve must be level to within two (2) degrees (1/2" to either side of plumb per 14" down). While positioning the valve level, tighten the GV-12 Stabilizer Bracket. Repeat the process until all sides are level within 2 degrees.

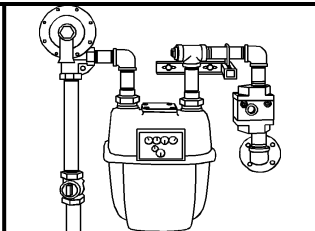
ISOLATED METER INSTALLATIONS



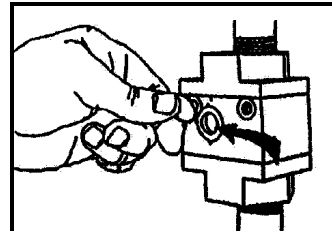
7. Install the Valve into position on the pipe leading to the house. Gas flow must go in through the top of the valve and out the bottom. Make sure to install the valve with the correct side up, with the sight glass visible and the flow arrow pointing in the downward direction. After installation the flow arrow must point down and the gas must flow into the top of the valve and out the bottom. Use a crescent wrench or open ended wrench. **Do not use a pipe wrench on the valve. This will result in damage that will void your warranty.**



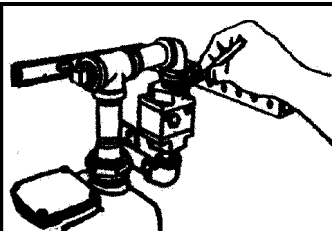
8. Reconnect the union to the meter. Tighten all fittings securely with the valve remaining level to the eye.



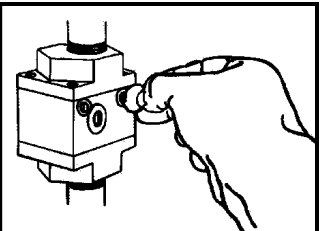
9. **PROPER STABILIZATION OF THE VALVE INSTALLATION IS ESSENTIAL TO AVOID NUISANCE TRIPPING. TO STOP EXCESSIVE VIBRATION AND TO COMPLY WITH CODES, BRACE THE VALVE WITH THE LITTLE FIREFIGHTER GV-12 STABILIZER BRACKET.**



16. After leveling check to make sure valve is closed by looking through sight glass window. If you see red, it is closed, if you can see the silver ball it is open. Use a flash light where needed.



17. Wet a piece of paper again and place it on the centerline of the 1/2 foot lb. Dial. Open the wrench operated meter inlet valve on the gas line. If the dial does not change within 5 minutes, your installation is air tight up to the valve. Check the valve and all fittings for leaks by brushing with soapy water and then watch for bubbles.



18. To reset (open) the valve, close the wrench operated meter inlet valve so that gas pressure on the valve can be reduced. Wait approximately 5 minutes. Slowly turn the "reset" shaft on the valve 1/8 turn in the direction indicated. Remove screwdriver from slot, the slot in the shaft will automatically rotate back to it's original position. Look in the sight glass window. If you see the silver ball the valve is reset and in the open position.

19. Once again open the wrench operated meter inlet valve on the gas line. Check for gas leaks on the other side of the valve with soapy water and the wet paper method. Bleed air out of gas line and light pilot lights according to the manufacturer's instructions. Bleeding air from lines sometimes takes up to 15 minutes.