

KEEP THIS OWNER'S MANUAL WITH YOUR VITAL HOUSEHOLD RECORDS

NAME: _____ DATE: _____

INSTALLATION ADDRESS _____

INSTALLER _____

LIC# _____

SERIAL # _____

FOR LITTLE FIREFIGHTER'S LIMITED WARRANTY AND REMEDIES SEE ENCLOSED PAGE

Warning: The Manually Reset Earthquake Shut-off AGV 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 AGV Series Valve has been tested and approved in accordance with State of California Standard 12- 23-1 and ASCE 25-06 Requirements.

INSTALLATION CLEARANCES

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

INSTALLATION GAS SHUT-OFF

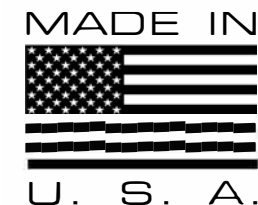
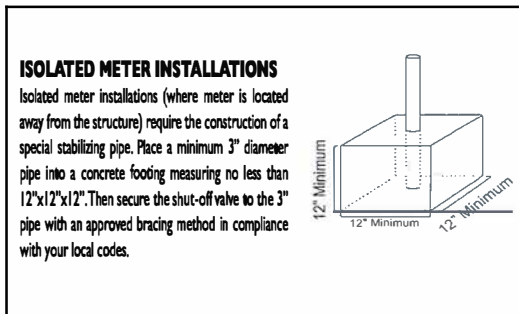
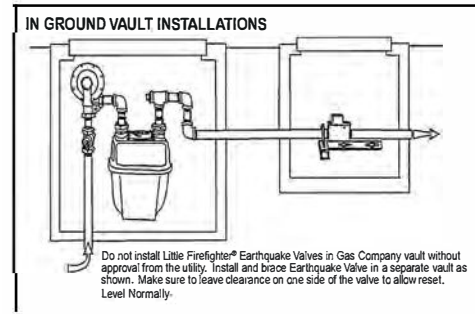
Qualified personal should install the valve. Some cities require submitting a plan to obtain a plumbing permit. Work must be in compliance with local codes, or, in absence of local codes, with the National fuel Gas Code, ANSI ASC Z223/NFPA 54 and if applicable, the National Electrical Code, ANSI/NFPA 70.

APPROVED GASES

Natural Gas or Propane

TEMPERATURE

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



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 - AGV Series Earthquake Actuated Automatic Gas Shut-Off Valves

Important Warranty Information
Do not hold valve with pipe wrenches, channel locks, vise grips or pliers. Damage or scarring 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.

U.S. Patents 5,209,454
5,307,699 & Pending

Do not push inward on the reset shaft while resetting. Always use a light touch with the screwdriver.

Place your finger over the shaft on the other side of the valve while resetting to help keep it from pushing through.

Operational Test for models AGV-300 and AGV-400

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. Verify that the valve closed by looking into the sight glass: Red = Closed. Check that the flow of gas has stopped. Once operational test is complete, refer to the reset instructions below for the AGV300 & 400

Operational Test for model AGV-250

Qualified personnel should perform a functional test every five (5) years as follows: Remove the four (4) screws and the sensor cover from the very top of the valve cover. Tip the sensor inside, this will trigger the valve. Check that the flow of gas has stopped. To make sure that the valve is closed, look in the sight glass: Red = Closed. Replace the sensor cover and screws. Once operational test is complete, refer to reset instructions below for the AGV-250

AFTER AN EARTHQUAKE OR RESETTING THE VALVE

Wear shoes; expect broken glass. Check for safety of family members. Inspect for: Smell of gas in house. Overtuned 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 Models AGV-300 and AGV-400.

To reset valve: Close wrench operated gas inlet valve and turn the "Shut-Off" shaft 1/8 of a turn (45°) in the indicated direction. Press down on the "Pressure Relief" Button until you hear a slight hiss. This hiss is the pressure escaping through the bypass which relieves the pressure on the Flapper, allowing it to be reset. Hold down the button until the hissing stops. This will occur when the pressure has been equalized. If the hissing doesn't taper off and stop, make sure the meter inlet valve is completely closed and try again. After the pressure is relieved, turn the "Reset" shaft 1/8 of a turn in the indicated direction. Look through the sight glass to confirm the valve is open, Silver=Open. DO NOT FORCE. Turn the wrench operated meter inlet valve back on. Re-light pilot lights according to manufacturer's instructions.

Reset Information for Models AGV-250

To reset the valve: Close wrench operated meter inlet valve. Press down the "Pressure Relief" button until you hear a slight hiss. This is the back pressure escaping through the bypass, thus relieving the pressure on the Flapper allowing it to be reset. Hold the button until the hissing stops. This occurs when the pressure has been equalized. After the pressure is equalized, turn the RESET Shaft 1/8 of a turn (45°) in the direction indicated. The slot on the reset shaft should spring back to its original, vertical, position. Look in the sight glass: Green = Open. Valve should reset easily, DO NOT FORCE. Turn the wrench operated meter inlet valve back on. Re-light pilot lights according to manufacturer's instructions.

MODEL AGV-250

Equivalent Pipe Length 4 ft

PRESSURE DROP	INLET PRESSURE (PSI)				
	PSI	IWC	3	7	10
0.018	0.5	4311	6597	7888	
0.036	1	6079	9317	11145	
0.072	2	8544	13143	15733	
0.108	3	10400	16054	19234	
0.144	4	11934	18490	22169	
0.18	5	13258	20618	24740	

MODEL AGV-300

Equivalent Pipe Length 5 ft.

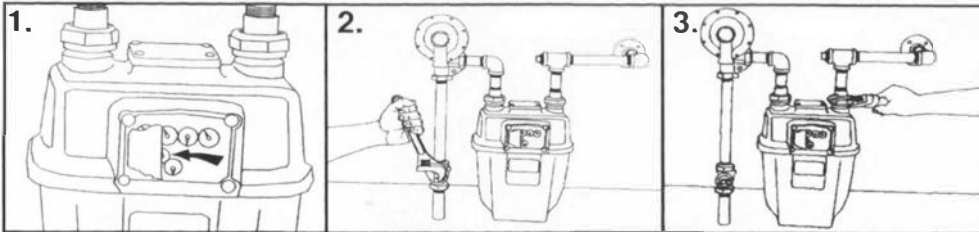
PRESSURE DROP	INLET PRESSURE (PSI)				
	PSI	IWC	3	7	10
0.018	0.5	7025	10749	12852	
0.036	1	9904	15181	18159	
0.072	2	13921	21414	25635	
0.108	3	16945	26159	31339	
0.144	4	19444	30126	36121	
0.18	5	21602	33594	40311	

MODEL AGV-400

Equivalent Pipe Length 12 ft.

PRESSURE DROP	INLET PRESSURE (PSI)				
	PSI	IWC	3	7	10
0.018	0.5	9184	14052	16802	
0.036	1	12948	19847	23741	
0.072	2	18200	27996	33514	
0.108	3	22153	34199	40971	
0.144	4	25420	39386	47223	
0.18	5	28241	43919	52701	

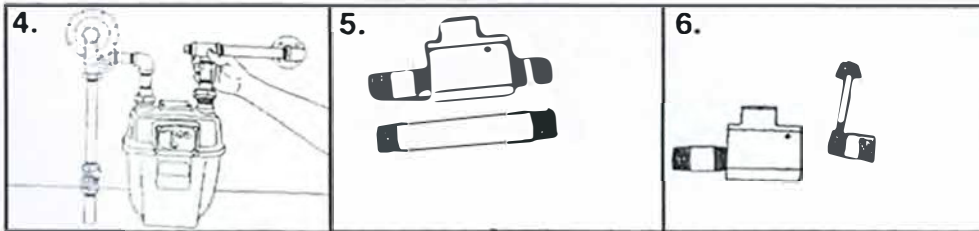
AGV - SERIES VALVE INSTALLATION INSTRUCTIONS FOR QUALIFIED INSTALLERS



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.

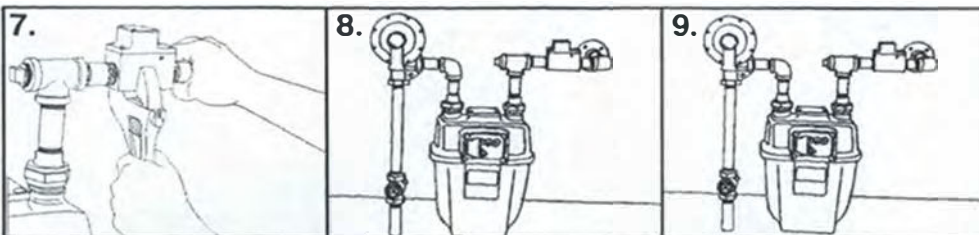
3. Remove the union from the house side of the meter with a pipe wrench and detach the union & tee from the pipe nipple.



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

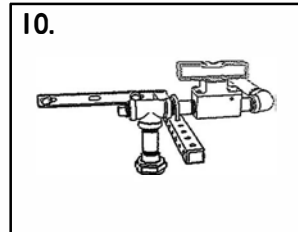
6. Neatly apply a good quality pipe joint compound to the nipples before permanently attaching to the Little Firefighter Gas Shut-Off Valve. Do not use plumber's tape, as pieces of the tape may break off and clog or damage the valve. **MAKE SURE THAT NO JOINT COMPOUND GETS INSIDE OF THE VALVE BODY.**



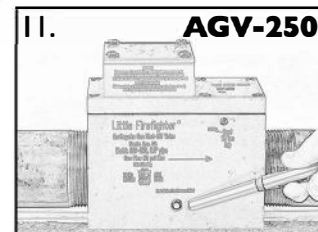
7. Install the Valve into position in the pipe leading to the house. **MAKE SURE TO INSTALL THE VALVE WITH THE SIGHT GLASS VISIBLE AND FLOW ARROW POINTS IN THE CORRECT DIRECTION.** Flow arrows are printed on the valve for your convenience. After installation the arrow must point in the direction of gas flow. Use a crescent or open ended wrench. **DO NOT USE A PIPE WRENCH ON THE VALVE. IT 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.

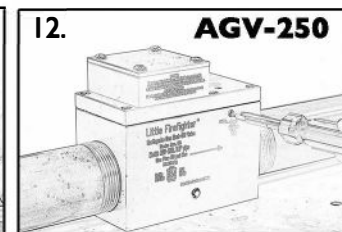
9. Proper stabilization of the valve installation is essential to avoid nuisance tripping. To stop excessive non-seismic vibrations and to comply with any codes, brace the valve with a stabilizer bracket. (Unistrut or approved equivalent).



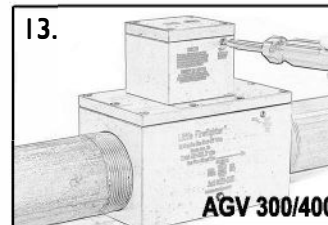
10. To level the valve: Place a level on the top of the valve. The valve must be level to within (2) degrees (1/2" to either side of plumb per 14" down). While positioning the valve level, tighten the brace. Repeat the process until all sides are level within 2 degrees.



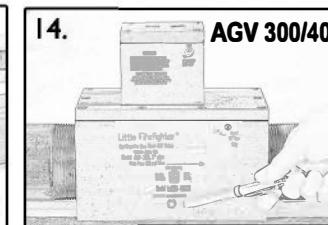
11. To reset the valve: Close wrench operated meter inlet valve. Press down the "Pressure Relief" button until you hear a slight hiss. This is the back pressure escaping through the bypass, thus relieving the pressure on the Flapper allowing it to be reset. Hold the button until the hissing stops. This occurs when the pressure has been equalized



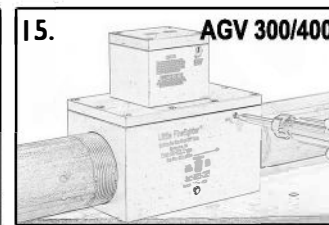
12. After the pressure is equalized, turn the RESET Shaft 1/8 of a turn (45°) in the direction indicated. The slot on the reset shaft should spring back to its original, vertical, position. Look in the sight glass: Green = Open. Valve should reset easily, **DO NOT FORCE.** Turn the wrench operated meter inlet valve back on. Re-light pilot lights according to manufacturer's instructions



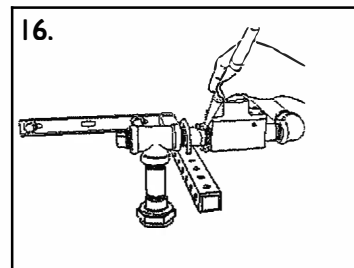
13. To reset valve: Close wrench operated gas inlet valve and turn the "Shut-Off" shaft 1/8 of a turn (45°) in the indicated direction.



14. Press down on the "Pressure Relief" Button until you hear a slight hiss. This hiss is the pressure escaping through the bypass which relieves the pressure on the Flapper; allowing it to be reset. Hold down the button until the hissing stops. This will occur when the pressure has been equalized.



15. After the pressure is equalized, turn the "Reset" shaft 1/8 of a turn in the indicated direction. The slot on the reset shaft should spring back to its original, vertical, position. Look through the sight glass to confirm the valve is open, Silver=Open.



16. Once valve is reset, open the wrench operated meter inlet valve on the gas line. Check for gas leaks on each side of the valve and fittings with soapy water. Bleed air out of gas line and light pilot lights according to the manufacturer's instructions. Bleeding air from lines sometimes takes a few minutes.



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