

630 EUROSIT



9.957.631 139

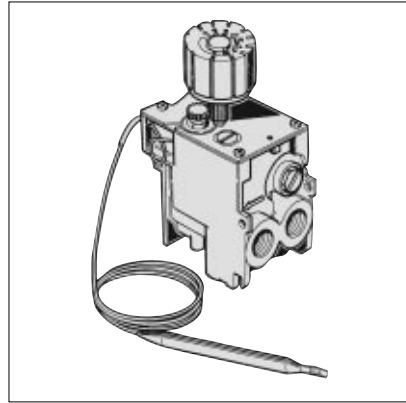
Read the instructions before use. This control must be installed in accordance with the rules in force.

English

3 - 10

APPLICATION

The 630 Eurosit is a combination gas control with a snap-action modulating thermostat, safety interlock and additional on/off function. The 630 Eurosit does not require electrical supply and is available in a wide range of configurations. It is particularly suitable for use in gas space heaters, gas fireplaces, gas log sets, and all appliances that require accurate temperature control. These controls are configured for both LPG and NG applications.



SPECIFICATIONS

TECHNICAL DATA

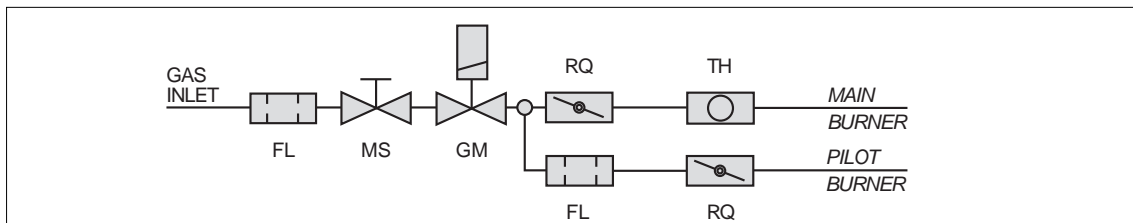
Gas connections	3/8" NPT, 9/16" UNEF
Pilot connections	7/16" UNEF
Installation position	Multi-position
Gas families	Liquefied Petroleum Gas or Natural Gas
Maximum gas inlet pressure	1/2 PSI
Maximum outlet pressure setting range	3.5" ~6" w.c. for NG and 8" ~12" w.c. for LPG
Working temperature range	32 ~ 175°F
Pressure regulator (some models)	Preset

MAIN FEATURES

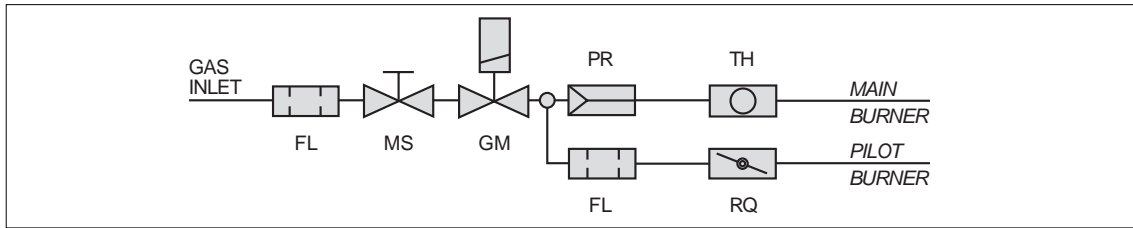
- Control knob: **"OFF/PILOT"**, and Temperature selection (MS)
- Thermo-electric flame failure device with re-start interlock (GM)
- Maximum gas flow adjustment (RQ) or, alternatively, Pressure Regulator (PR)
- Modulating thermostat with additional on/off function (TH)
- Pilot outlet with flow adjusting screw (RQP)
- Inlet and pilot filters (FL)
- Side or bottom main gas inlet and outlet
- Threaded 3/8" NPT or 9/16" UNEF gas inlet and outlet connections

WORKING DIAGRAM

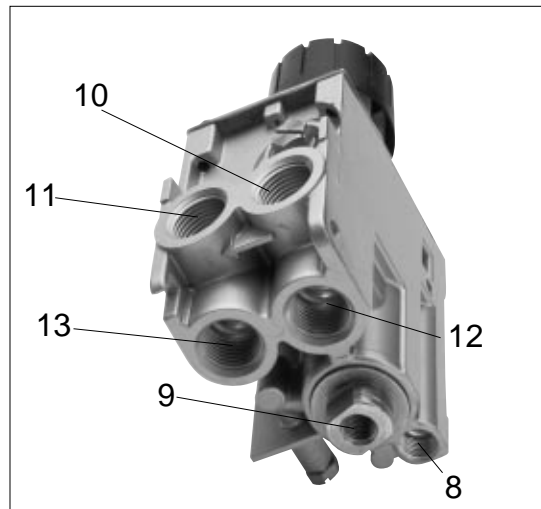
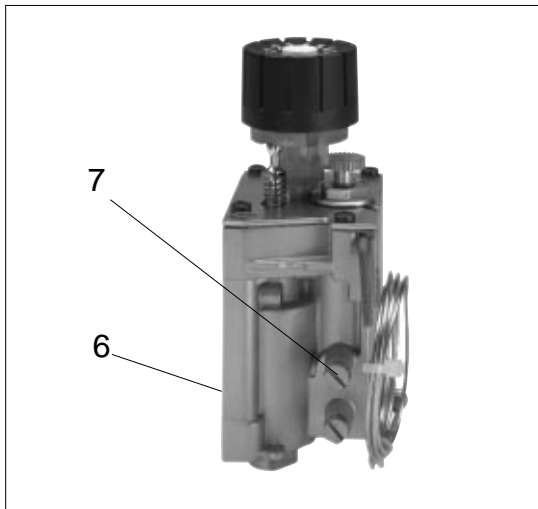
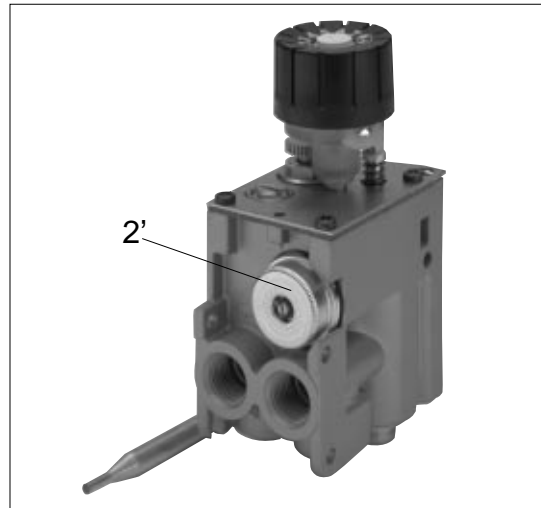
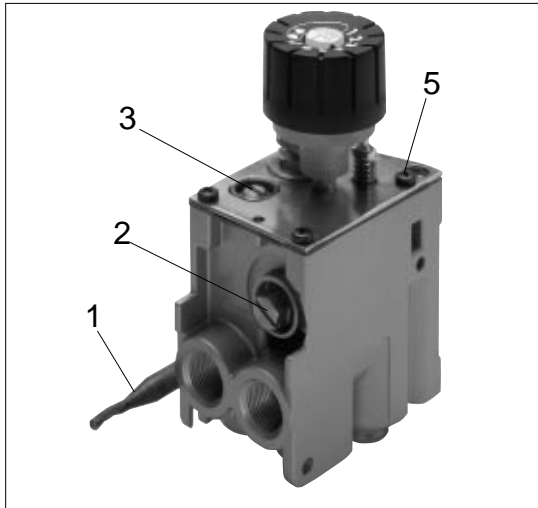
Versions without pressure regulator



Versions with pressure regulator



VALVE DESCRIPTION



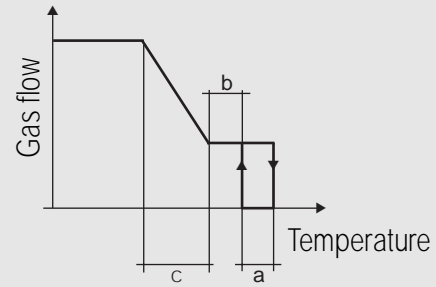
- 1. Temperature sensing bulb
- 2. Maximum flow screw
- 2'. Pressure regulator
- 3. Minimum rate screw
- 4. Control knob
- 5. Pilot flow adjustment screw
- 6. Inlet pressure test port
- 7. Outlet pressure test port
- 8. Pilot outlet

- 9. Thermocouple connection
- 10. Side inlet
- 11. Side outlet
- 12. Bottom inlet
- 13. Bottom outlet

THERMOSTAT REGULATION SPECIFICATIONS

Thermostat Features

Thermostatic Range	a	b	c
55-100 °F	2.7	2.7	1.8
55-118 °F	4.5	4.5	2.7



STOP STOP:

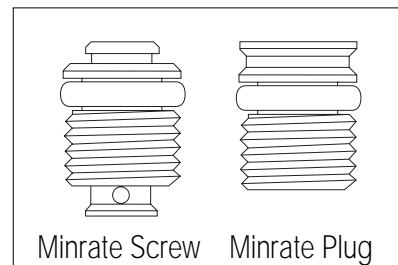
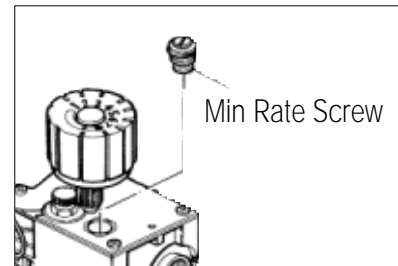
Do not install, replace, or in any way modify the gas valve or the appliance, unless CERTIFIED and QUALIFIED as a Gas Appliance Service Technician on the appliance this valve is used on. READ AND FOLLOW ALL INSTRUCTIONS.

INSTALLATION

Valve configuration inspection

The 630 Eurosit can have one inlet and one outlet plugged. Inspect the control to determine which inlet and outlet are plugged. The plugs use o-ring seals and are made of brass. The replacement control must have the same inlet and outlet plugged as the original control. Use a 5/16" Allen key to remove and tighten the plug.

The replacement 630 Eurosit has an On/Off modulating plug (fig. A) installed. To achieve similar performance as the original control, remove the plug in the replacement control using a Flathead Screwdriver and set aside. Remove the Min Rate Screw (fig. B) from the original control and install it into the replacement control in the same location.



When installation of this product begins...

1. Read all of these instructions carefully. Failure to follow instructions could damage the product or cause a dangerous condition.
2. Check the ratings given in the instructions and on the appliance to make certain that the control is suitable for your application.
3. All operations of installation, calibration, conversion and regulation must be undertaken exclusively by qualified personnel following the instruction specified in this catalog and those in the instruction manual of the appliance in which the valve is installed.
4. After installation is complete, verify that the appliance operates as indicated in these instructions.

WARNING:**Fire or Explosion Hazard.**

Can cause property damage, severe injury or death.

Follow these instructions completely.

1. Turn off gas supply at the appliance service valve before installation, and perform a Gas Leak Test after the installation is completed.
2. Always install the sediment trap in the gas supply line to prevent contamination of the gas control.
3. Do not force the control knob. Use only your hand to turn the knob. If the knob does not move by hand, the valve should be replaced by a trained service technician.

WARNING:**Oxygen Depletion Hazard.**

Can cause injury or death by asphyxiation.

Do not use valves for vented appliances on unvented or vent free appliances. Do not use valves for unvented or vent free appliances on vented appliances.

**CAUTION****Electrical shock or equipment damage hazard.**

Can shock individuals or short equipment circuitry.

Make sure to disconnect all electrical supplies before beginning the installation process.

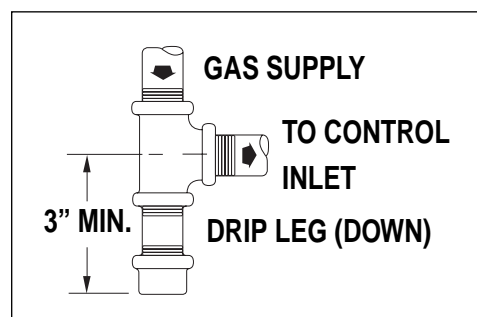
IMPORTANT

- These gas controls are shipped with anti-contamination seals over inlets and outlets.
- Do not remove the seals until ready for connection to piping.
- Appliance manufacturer's instructions supercede any instructions listed in this instruction book.

INSTALL PIPING TO GAS VALVE

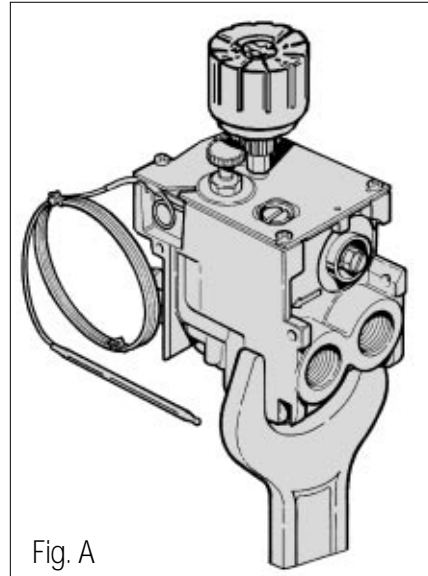
All piping must comply with local codes and ordinances or with the National Fuel Gas code (ANSI Z223.1 NFPA No. 54) whichever applies. Tubing installation must comply with approved standards and practices. Use appropriately sized fittings when connecting aluminum tubing to the pilot outlet.

1. Use new, clean and correctly reamed pipe free from burrs, chips, debris and any foreign matter. When tubing is used, make sure the ends are square and clean. All tubing bends must be smooth and without deformation.
2. Run pipe or tubing to the valve. If tubing is used, obtain a tube-to-pipe coupling to connect the tubing to the valve.
3. Install sediment trap (Drip Leg) in the supply line to the gas valve



INSTALLING THE VALVE

1. Mount the valve in the desired position.
2. Mount the valve so the flow of gas is consistent with the gas flow arrows on the valve.
3. Apply a moderate amount of quality pipe compound (DO NOT USE TEFLON TAPE) to the pipe only, leaving two end threads bare. On LP installations, use compound that resists exposure to LP gas.
4. Remove seals over inlet and outlet if necessary
5. Connect pipe to valve inlet and outlet. Place wrench as in (fig. A).
6. Thread pipe into the valve until a gas tight seal is achieved. Typically, for NPT thread, penetration is usually no more than the diameter of the pipe or 2 and 1/4 turns of thread. Valve distortion or mechanical failure can result if the pipe is inserted too deeply.
7. Connect pilot tubing to valve with appropriately sized fittings.
8. Confirm gas tight seals with gas leak test.
9. Connect thermocouple to safety magnet. Hand tighten, and then rotate 1/4 turn with wrench.



WIRING

Follow the wiring instructions furnished by the appliance manufacturer, if available, or use the following general instructions. Appliance manufacturers instructions always supercede these instructions.

All wiring must comply with applicable electrical codes and ordinances.

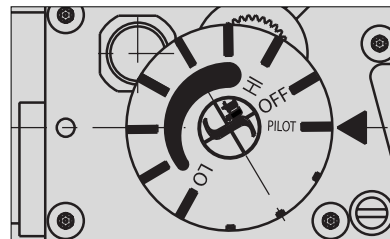
Disconnect the appliance power source before making any electrical connections to prevent the possibility of electrical shock or damage to equipment.

1. Check the millivolt rating on the gas valve and make sure it matches the available supply. Install thermostat and other accessories as required.
2. For the Millivolt Plus, connect thermocouple to convenient upper or lower connection port. Hand tighten, and then rotate $\frac{1}{4}$ turn with wrench.
3. Connect the Thermo-generator leads to TPTH and TP terminals on main operator coil.
4. This valve may only be used in self-generating systems. Use only components specifically designed for use in a millivolt system.

OPERATION

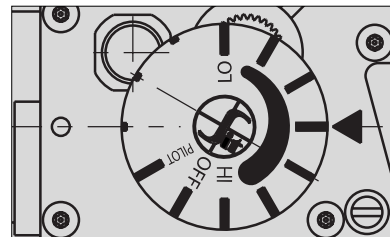
Pilot flame ignition

Start from the “**OFF**” position. Rotate the control knob to the “**PILOT**” position. Press the knob and light the pilot flame, keeping the knob fully depressed for thirty (30) seconds or more, until a strong pilot flame is present. Release the knob and verify that the pilot flame remains lit.



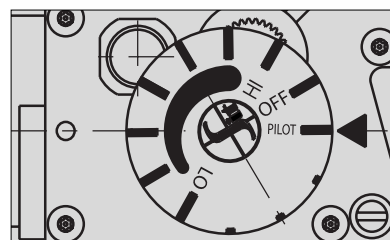
Igniting the main burner

Turn the control knob to the desired temperature setting. In the modulating version, the gas path to the main burner opens when the ambient temperature is lower than the set point temperature. In the manual version, the gas path to the main burner opens immediately when the knob is rotated to a temperature setting.



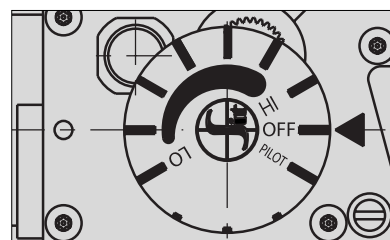
Stand-by position

To maintain a flame at the pilot burner with the main burner off, turn the control knob to the “**PILOT**” position.



Turning off

Turn the control knob to the “**OFF**” position.



CAUTION

After shutting down, wait at least five minutes before re-igniting. This will allow the safety interlock to reset.

FINAL CHECKS

WARNING:

Fire or Explosion hazard.

Can cause damage to property and severe injury or death.

Do not force the control knob. Use only your hand to turn the knob. If the knob does not move by hand, the valve should be replaced by a trained service technician.

PERFORM GAS LEAK TEST

WARNING:**Stand away from the main burner while lighting.**

Hidden gas leaks can cause flashbacks in the appliance area. Check for gas leaks with rich soap and water solution any time work is done on a gas system.

GAS LEAK TEST

- Using a solution of soapy water, paint the piping connections which are upstream of the control. The presence of bubbles indicate a gas leak is present.
- If a leak is detected, tighten the pipe connections and repeat leak test.
- Light the main burner.
- With the main burner in operation, paint all piping connections from the valve with a soap and water solution.
- If another leak is detected, tighten the connection.
- If after tightening the connections the leak is still present, replace the leaky part and, or valve. Shut off the main gas supply before attempting replacement of parts or the valve.
- Using the soap and water solution test, the pressure test ports and min rate screw to verify that no leak is present.
- If a leak is detected tighten the screw and retest.
- If after tightening the pressure test port or min rate screw the leak is still present, shut off main gas supply and replace the valve.

SHUTDOWN PERFORMANCE TEST

WARNING:**Fire or Explosion Hazard.**

Can cause severe injury or death.

Perform the safety shutdown check any time work is done on a gas system.

1. Place the appliance in operation. The pilot and main burners should be lit.
2. Place gas control knob in "PILOT" position. Main burner should extinguish and pilot should remain lit.
3. Extinguish pilot flame. Pilot gas safety shutoff proves complete shutdown due to the fact the safety shutoff valve prohibits main burner and pilot gas flow.
4. Wait at least five minutes for the safety magnet to reset and residual gas to clear from the combustion chamber.
5. Relight pilot burner and operate the system through one complete cycle to ensure all functions operate correctly.

MAINTENANCE

This valve is not field serviceable. There are no replaceable parts. Do not disassemble, or attempt replacement of any parts on or in the valve. Improper adjustment or tampering with settings can result in severe injury or death.

ACCESSORIES

3/8" sealing plug for unused inlets and outlets (Typically 2 per valve)	0.972.058
Fittings for pilot burner connections for 1/4" tubing	0.958.042
Disc adaptor for remote control	0.997.209
<i>Other accessories available on request</i>	



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