

810 ELETTROSIT

MULTIFUNCTIONAL GAS CONTROL



PUSH-BUTTON CONTROL ALL ADJUSTMENTS ACCESSIBLE FROM ABOVE

THERMOELECTRIC SAFETY DEVICE

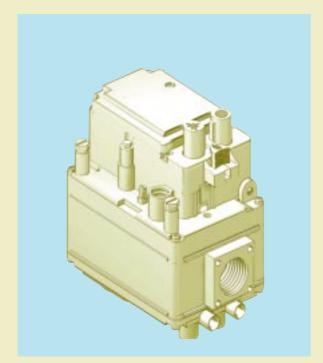
ON-OFF SOLENOID VALVE





PIN 63AN7060/3

ELECTRICAL MULTIFUNCTIONAL CONTROL



High-flow multifunctional control complete with: pushbutton control (off, pilot, on), thermoelectric safety device for protection against improper operation, main burner ignition enabling button, pressure regulator, on-off solenoid valve with gas flow on-off control. On request, a step ignition device can be fitted.

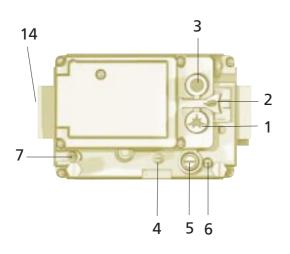
810 ELETTROSIT is suitable for use with gas heating appliances (boilers, hot air generators, etc.).

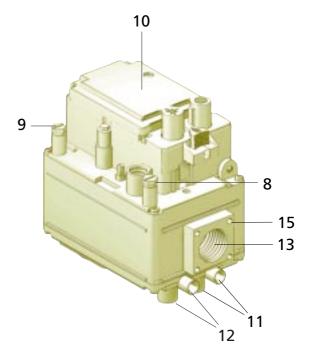
MAIN FEATURES

DESCRIPTION

- 1 Ignition button (pilot position)
- 2 Main burner ignition enabling button
- 3 Shutdown button
- 4 Pressure regulator setting device
- 5 Pilot gas flow adjusting screw
- 6 Step ignition device adjustment screw

- 7 Pressure regulator override device
- 8 Inlet pressure test point
- 9 Outlet pressure test point
- 10 On-off solenoid valve
- 11 Thermocouple connections
- 12 Pilot outlets
- 13 Main gas inlet
- 14 Main gas outlet
- 15 Holes (M5) for fixing flanges





TECHNICAL DATA

- Gas connections:
- Installation position: an
- Gas families:
- Maximum gas inlet pressure:
- Outlet pressure setting range:
- Working temperature range:
- Pressure regulator: Class C
- Automatic solenoid valve: Class D

Rp 1/2 ISO 7 (Rp 3/4 on request) any position I, II and III

50 mbar

3...18 mbar (on request 15...30)

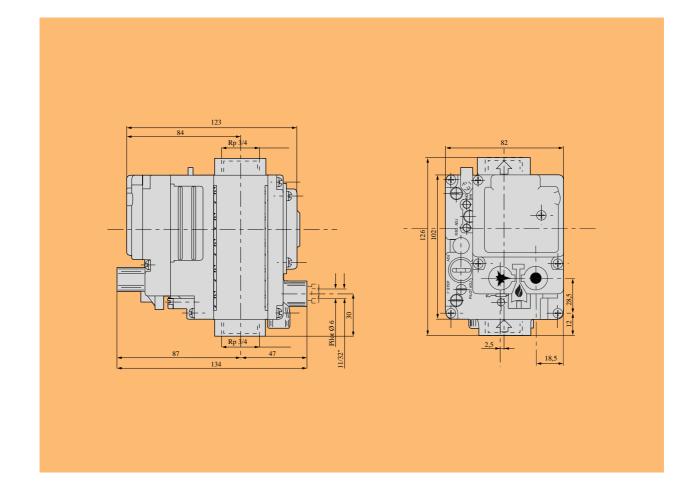
- 0...60 °C
- e: Class D

POWER SUPPLY				
Voltage (AC)	Consumption (mA)			
230 V 50 Hz	75			
24 V 50 Hz	650			

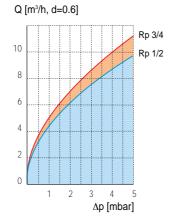
Data refer to EN 126



DIMENSIONS



FLOW RATE AS A FUNCTION OF PRESSURE DROP



		Rp 1/2	Rp 3/4	
Ι	Family (d = 0.45)	$Q = 11.2 \text{ m}^{3}/\text{h}$	Q = 12.9 m ³ /h	$\Delta p = 5 \text{ mbar}$
Ш	Family (d = 0.6)	$Q = 9.8 \text{ m}^3/\text{h}$	Q = 11.2 m ³ /h	Δp = 5 mbar
III	Family (d = 1.7)	Q = 6.0 kg/h	$Q = 6.9 \text{ m}^{3/h}$	$\Delta p = 5 \text{ mbar}$

OPERATION

Pilot flame ignition

Depress the button \divideontimes and ignite the pilot flame, keeping the button fully depressed for a few seconds (fig.1). In controls with enabling for electrical ignition, the pilot can be ignited automatically by depressing the button \divideontimes . Release the knob \divideontimes and check that the pilot flame stays lit. If it goes out, repeat the ignition operation.

Main burner ignition

Depress the transverse button \Leftrightarrow (fig.2) (manual versions).

The gas passage to the main burner is opened by powering the automatic solenoid valve. The valve with step ignition device reaches the maximum flow after about 10 seconds.

Pilot flame ignition

Fully depress the knob * (fig.1) to keep the main burner closed and the pilot flame lit.

Shutdown

Fully depress the knob • (fig.3).

CAUTION: the restart interlock device prevents ignition of the appliance until the flame failure device has stopped gas flow. At the end of this period (after closing the magnet unit) it is possible to carry out the re-ignition operation.

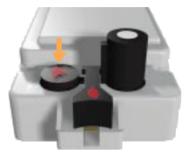
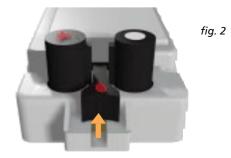


fig. 1



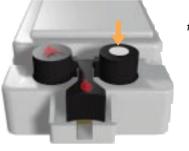


fig. 3



INSTALLATION

Main gas connection

The connection is made using gas pipes with Rp 1/2 ISO 7 (or Rp 3/4) threading. Torque: 25 Nm. If, alternatively, flanges (available on request) are used, first screw the pipes onto the flanges and then the flanges to the control. Recommended torque for the flange fixing screws: 3 Nm.

Connection to the pilot burner

Pipes with a 4 mm, 6 mm or 1/4 diameter can be used. Use a nut and olive of appropriate dimensions. Tighten to 7 Nm torque.

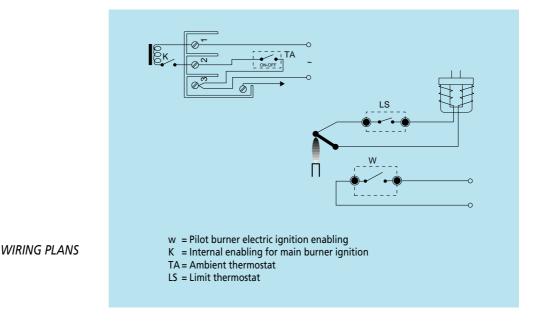
Electrical connections

All the electrical connections should be made in compliance with the provisions of the electrical standards in force. Check that the voltage and frequency of the coils, indicated on the control, are correct. Check that all the connections, in particular the earth, are carried out to industry standards.

The 24Vac versions must be powered by an isolating transformer (with very low safety voltage). Carry out the connections in accordance with the rules for the appliance.

To access the supply \bigcirc and earth \equiv terminals, unscrew the screw and remove the cover. To access the electric ignition enabling terminals "W" (where applicable), unscrew the screw "M" and remove the enabling device. The limit thermostat "LS" should be inserted into the thermoelectric circuit.

CAUTION: after making the connections, check gas tightness and electrical insulation.



Measurement of the inlet and outlet

pressure

The inlet and outlet pressures of the gas can be measured by unscrewing the provided test point sealing screws. Replace screws with 2.5 Nm torque.

Gas flow-rate adjustment to the pilot

Adjustment screw (PILOT ADJ.). Screw in the screw to reduce the flow, or unscrew it to increase flow.

Outlet pressure adjustment

Adjustment screw (REG. ADJ.). Remove the protective cap, screw in the adjustment screw (REG. ADJ.) to increase the outlet pressure, or unscrew it to decrease flow.

Adjustment of the step ignition minimum flow with natural gas

Adjustment screw (1st STEP ADJ.) With the screw (1st STEP ADJ.) in combination with the screw (REG ADJ.), or with the buttons ★ and ◆, it is possible to adjust the step ignition device so that the burner goes on gradually and silently.

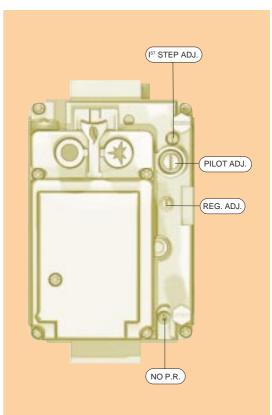
Adjustment of the step ignition minimum flow with third family gases

By completely unscrewing the screw (NO P.R.) and adjusting the screws (REG ADJ.) and (PILOT ADJ.), it is possible to obtain gradual and silent ignition with third family (LPG) gases too.

CAUTION:

See the use and installation manual for a detailed description of the adjustment systems described above (footnote).

Check tightness and efficiency and seal the adjustment devices.



Implement the provisions in the Use and Maintenance manual - code 9.956.810 - for installation, adjustment and use.



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