

fire

PROFLAME



MULTIFUNCTIONAL CONTROL FOR GAS BURNING APPLIANCES

Application

Domestic gas appliances: room heaters and fireplaces.

Main Features

Automatic ignition gas control system that includes a user selectable intermittent or standing pilot

Twin safety system with true flame detection for enhanced safety and reliability

On/Off, manual High/Low, and remote modulation valve configurations

Integrated for use with the Proflame Remote Control family GT, GTS, GTM, GTMS, GTMF, GTMFS

Operable from a wall switch or a remote control

Low power consumption design provides a choice of AC operation, battery operation or AC power with battery backup.

Normative reference

ANSI Z21.78, ANSI Z21.20.

Approvals

CSA international.

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VALVE DESCRIPTION

It consists of two automatic shut-off valves and a servo pressure regulator in series in the main gas path.

With reference to the schematic block in Fig. 1:





CONSTRUCTION CHARACTERISTICS

- Aluminium alloy body
- Inline inlet and outlet
- Available bottom inlet and bottom outlet
- Pilot outlet
- Inlet filter

USE SPECIFICATIONS

- Installation position
- Gas families
- Ambient operating temperature range
- Maximum inlet pressure
- NOT for direct burner ignition appliances

MECHANICAL CONNECTIONS

Gas inlet and outlet connections

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- Pilot outlet
- Pressure test points

• Inlet pressure test point

- Outlet pressure test point
- Two mounting through holes on the side
- Two mounting holes on the gas inlet and outlet

Upright, ≤90° from upright (Never upside down) Natural Gas ,LPG 32 to 175 °F 1/2 psi

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- 3/8"- 18 NPT ANSI B 1.20.1 - 5/8"- 18 SAE J512 - 9/16"- 24 UNEF ANSI B 1.1 7/16"- 24 UNS - 2B ANSI ø9 mm









Fig. 5: Flow rate vs. drop pressure.

VALVE FUNCTIONAL DESCRIPTION

The Proflame control is equipped with two automatic shut-off valves. It is possible to read the inlet pressure when both valves are de-energized (OFF in Fig. 6).

When the solenoid EV1 is energized the first gas valve opens. The pilot outlet is enabled (PILOT in Fig. 6).

When EV2 is energized the second valve opens and gas flows through the main outlet (OPEN in Fig. 6).

It is possible to measure the outlet pressure on the outlet pressure test point.

The servo pressure regulator system provides superior performance of outlet pressure regulation. The outlet pressure can be adjusted by a knob (Manual HI-LO version) or by a electrical modulator device.





VALVE DIMENSIONAL DRAWING



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VALVE DIMENSIONAL DRAWING





NOTE: All the dimensions are expressed in millimeters [inches]

108 [4.25]

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