

Millivoltage Combination Gas Controls

VS820 Millivoltage Combination Gas Controls



These gas controls combine a Lite-Rite manual gas cock, safety shutoff Pilotstat assembly, millivoltage automatic valve operator, and optional gas pressure regulator. They require the use of a 750 mv Powerpile generator (thermopile). The generator, heated by the pilot burner flame, provides the electrical energy to operate the combination gas control. A millivoltage thermostat with suitable accessory controls completes the automatic control system for the heating appliance. Models equipped with the standard pressure regulator are identified by the suffix letter "A" VS820A. Models without pressure regulator carry the suffix letter "B" (VS820B). Suffix letter "C" (VS820C) identifies models having step opening type regulators. Pressure regulators and operator are standardized and interchangeable on all models in the two capacity ranges - 225 and 335 cubic feet per hour.

- Include pilot flow adjustment screw.
- Easy to install, adjust and service; all adjustments and connections are accessible from top of control.
- Add separate energy cutoff (ECO) where codes call for dual safety shutoff.
- Complete safety shutoff on pilot flame failure.
- LITE-RITE (OFF-PILOT-ON) lighting sequence.
- ECO connector for V800 models, Part No. 392451-1.

Application: Self-powered automatic control. Use with 750 mV pilot generator.

Dimensions, Approximate: 4 3/4 in. high x 4 1/16 in. wide x 3 3/16 in. deep (121 mm high x 103 mm wide x 81 mm deep)

Body Pattern: Straight-through. multi-tapped with 1/2 in. right and left outlets plugged, except as noted.

Pressure Ratings: 1/2 psi (3.5 kPa)

Pressure Tapping: 1/8 in. NPT with plug.

Temperature Range: 32 F to 175 F (0 C to 79 C)

Electrical Ratings: 750 mV

Pilot Gas Outlet: Compression fitting for 1/4 in. OD tubing.

Electrical Connections: Terminal block has 3 combination screw and 1/4 in. quick connect terminals.

Mounting: 0 to 90 degrees in any direction from the upright position of the gas control knob, including vertically.

Approvals:

American Gas Association: AGA Design Certified: File no. L2025003

Canadian Gas Association: CGA Design Certified: File no. L2025003

Underwriters Laboratories Inc. UL Component Recognized

Residential
Combustion Controls

Product Number	Type of Gas	Inlet/Outlet Size (in.)	Pressure Regulator	Pressure Regulator Setting		Includes	Comments
				(psi)	(kPa)		
* VS820A1047	Natural	1/2 in. NPT x 3/4 in. NPT with 1/2 in. NPT side outlets	Standard	3.5 in. wc Reg. Set/3-5 in. Adj. Range	0.87 kPa	One 3/4 in. x one 1/2 in. reducer bushing; one 1/2 in. x 3/8 in. reducer bushing	—
* VS820A1054	Natural	3/4 in. NPT x 3/4 in. NPT with 1/2 in. NPT side outlets	Standard	3.5 in. wc Reg. Set/3-5 in. Adj. Range	0.87 kPa	One 1/2 in. x 3/8 in. reducer bushing; one 3/4 in. x 1/2 in. reducer bushing	—
• VS820A1088	Natural	3/4 in. NPT x 3/4 in. NPT with 1/2 in. NPT side outlets	Standard	3.5 in. wc Reg. Set/3-5 in. Adj. Range	0.87 kPa	One 1/2 in. x 3/8 in. reducer bushing; one 3/4 in. x 1/2 in. reducer bushing; one Natural to LP conversion kit; remote rod adapter	Comes with two 3/4 in. x 1/2 in. reducer bushings; one Natural to LP conversion kit; one 1/2 in. x 3/8 in. reducer bushing; and a remote rod adapter
* VS820A1336	LP	3/4 in. NPT x 3/4 in. NPT with 1/2 in. NPT side outlets	Standard	10.0 in. wc Reg. Set/8-12 in. Adj. Range	2.49 kPa	One 3/4 in. x one 1/2 in. reducer bushing; one 1/2 in. x 3/8 in. reducer bushing	—
* VS820C1100	Natural	3/4 in. NPT x 3/4 in. NPT with 1/2 in. NPT side outlets	Step Opening	Step: 0.9 in. wc non-adjustable; Full rate: 3.5 in. wc, 3-5 in. adjustable	Step: 0.22 kPa; Full rate: 0.87 kPa	One 3/4 in. x one 1/2 in. reducer bushing; one 1/2 in. x 3/8 in. reducer bushing	—

* TRADELINE models • SUPER TRADELINE models