

Combination Gas Controls

VR8204 Intermittent Pilot Dual Automatic Valve Combination Gas Controls



Type: Single Stage
Body Pattern: Straight-through
Type of Gas: Natural
Capacity: 150,000 BTU/hr 1 in. PD; 20,000 BTU/hr minimum
 200,000 BTU/hr maximum
Anticipator Setting: 0.5 A
Ignition Type: Intermittent Pilot
Pressure Ratings: 1/2 psi (3.5 kPa)
Pressure Tapping: 1/8 in. NPT with plug
Electrical Ratings: 24 Vac
Frequency: 60 Hz
Pilot Gas Outlet: Compression fitting for 1/4 in. OD tubing
Electrical Connections: 1/4 in. quick-connect male terminals
Mounting: 0 to 90 degrees in any direction from the upright position of
 the gas control knob, including vertically.

Approvals

Australian Gas Association: 4717

CSA International: 112395

Underwriters Laboratories, Inc: UL Component Recognized
 MCCZ2.MH5323.

Combination gas controls for use in 24 Vac, gas-fired, intermittent pilot appliances with capacities from 20 to 200 cfh.

- Controls include manual valve, two automatic operators, servo pressure regulator and pilot adjustment.
- Use with S86F,H; S8600F,H and S8610 Control Modules.
- Compact size.
- Provide two automatic valves.
- Solenoid operated first automatic valve opens on thermostat call for heat; closes when call for heat ends.
- Diaphragm operated second automatic valve opens under control of regulator; closes if gas or power supply is interrupted.
- Meet codes requiring dual safety shutoff.
- Natural to LP and LP to Natural conversion kits available for standard and slow opening gas valves.
- All adjustments and wiring connections are accessible from top of control.
- ON-OFF lighting sequence.

Accessories:

390427A-3/4 inch x 1/2 inch reducer bushing for valves

390427B-1/2 inch x 3/8 inch reducer bushing for valves

390427E-Two 3/4 in. NPT x 1/2 in. NPT reducer bushings

392877-1/4 inch barbed vent fitting

393690-4-Flange Kit bag assembly, includes 3/4 in. straight flange, O-ring, and hex screws.

393690-13-Flange Kit bag assembly, includes 1/2 inch angle flange, O-ring, 9/64 inch hex screws and 9/64 inch hex wrench

393690-15-Flange Kit bag assembly, includes 3/4 inch angle flange, O-ring, 9/64 inch hex screws and 9/64 inch hex wrench

393691-Single Stage Natural Gas to LP Conversion kit, including regulator spring, screw and cap

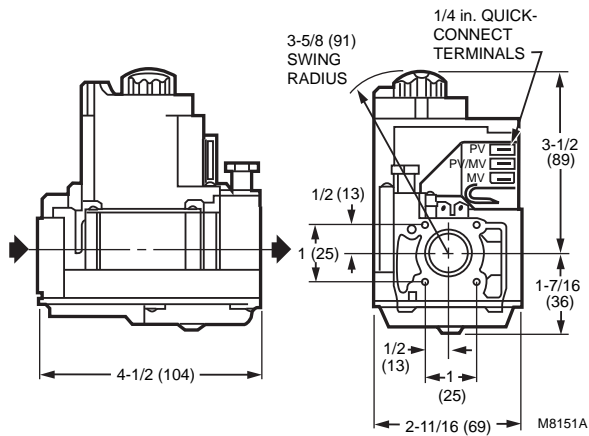
394588-Single Stage LP to Natural Gas Conversion kit, including regulator spring, screw and cap

395253-1-Single Stage Natural Conversion kit (5 in. wc to 7 in. wc adjustable).

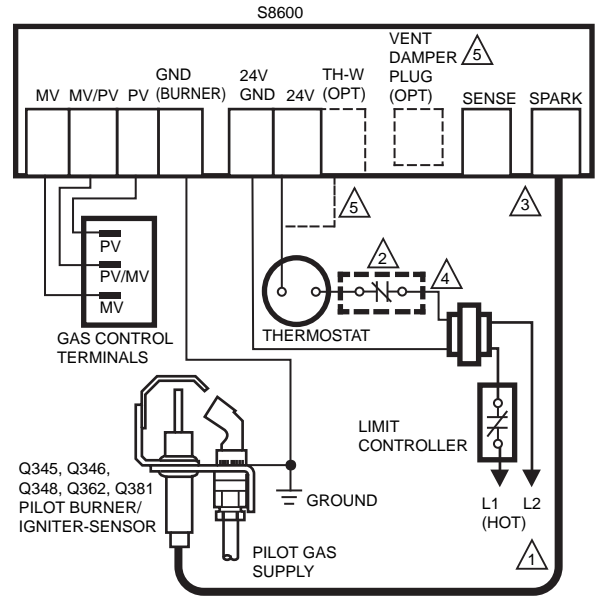
| Product Number | Opening Characteristics (standard, step) | Inlet/Outlet Size (in.) | Pressure Regulator Setting | | Ambient Temperature Range | | Includes |
|----------------|--|-------------------------|---|---|---------------------------|----------------|--|
| | | | (psi) | (kPa) | (F) | (C) | |
| VR8204A2076/U | Standard | 1/2 in. x 1/2 in. | 3.5 in. wc | 0.87 kPa | 0 F to 175 F | -18 C to +79 C | One 3/4 in. straight flange; One 1/2 in. x 3/8 in. reducer bushing; Natural to LP Conversion Kit |
| VR8204C1019/U | Step Opening | 1/2 in. x 1/2 in. | Full Rate: 3.5 in. wc; Step Setting: 0.9 in. wc | Full Rate: 0.87 kPa; Step Setting: 0.22 kPa | 0 F to 175 F | -18 C to +79 C | — |
| VR8204H1006/U | Slow Opening | 1/2 in. x 1/2 in. | 3.5 in. wc | 0.87 kPa | 0 F to 175 F | -18 C to +79 C | — |
| VR8204M1091/U | Standard | 1/2 in. x 1/2 in. | 3.5 in. wc | 0.87 kPa | -40 F to +175 F | -40 C to +79 C | One 3/4 in. straight flange; One 1/2 in. x 3/8 in. reducer bushing; Natural to LP Conversion Kit |

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Dimensions in inches (millimeters)



Wiring connections for 24 volt control in intermittent ignition system with S8600.



- 1 POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.
- 2 ALTERNATE LIMIT CONTROLLER LOCATION.
- 3 MAXIMUM WIRE LENGTH 3 ft [9 m].
- 4 CONTROLS IN 24V CIRCUIT MUST NOT BE IN GROUND LEG TO TRANSFORMER.
- 5 FOR MODULE WITH TH-W TERMINAL AND VENT DAMPER PLUG, CONNECT THERMOSTAT TO TH-W. LEAVE 24V OPEN. DO NOT REMOVE VENT DAMPER PLUG.

M9056

Residential
Combustion Controls