

Combination Gas Controls

VR8204IntermittentPilotDualAutomatic 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
 MCC22.MH5323.

Combination gas controls for use in 24 Vac, gas-fired, intermittent pilotappliances 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.

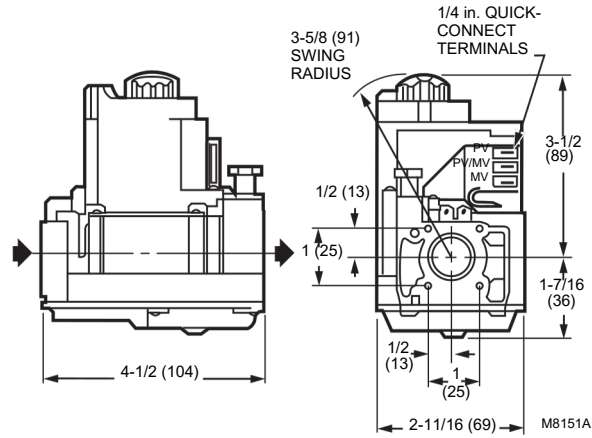
Accessories:

- 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).

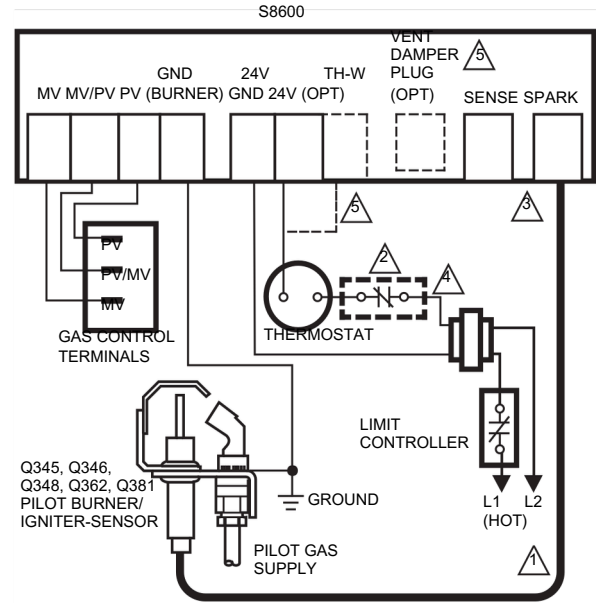
Product Number	Opening Characteristics (standard, Step)	Inlet/Outlet Size (in.)	Pressure Regulator Setting		Ambient Temperature Range		Includes
			(psi)	(kPa)	(F)	(C)	
VR8204A2076/U	Standard	1/2 in. x 1/2 in.	3.5 in. wc	0.87 kPa	0 F to 175 F	-18 C to +79 C	One 3/4 in. straight flange; One 1/2 in. x 3/8 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.



- ⚠ POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.
- ⚠ ALTERNATE LIMIT CONTROLLER LOCATION.
- ⚠ MAXIMUM WIRE LENGTH 3 ft [9 m].
- ⚠ CONTROLS IN 24V CIRCUIT MUST NOT BE IN GROUND LEG TO TRANSFORMER.
- ⚠ 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

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