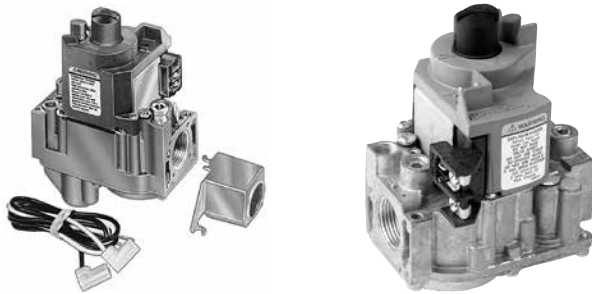


VR4300 Line Voltage; VR8300 Low Voltage Standing Pilot Combination Gas Controls



Application: Single Stage

Type of Fuel: Natural (LP if conversion kit included)

Pressure Tapping: 1/8 in. NPT with plug

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

Body Pattern: Straight-through (with flange if included)

Capacity (kBtu/h):

1/2 x 3/4 inlet x outlet – At 1 in. wc p.d. – 190,000 BTU/h;
30,000 BTU/h minimum; 290,000 BTU/h maximum Natural Gas

3/4 x 3/4 inlet x outlet – At 1 in. wc p.d. – 200,000 BTU/h;
30,000 BTU/h minimum; 300,000 BTU/h maximum Natural Gas

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

Operating Temperature Range: 0°F to 175°F (-18°C to +79°C);
VR8300M -40°F to +175°F (-40°C to +79°C)

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

Approvals, CSA: CSA International: 112395

Approvals, Australian Gas Association: 4717; except VR8300M models

Pressure Ratings (psi): 1/2 psi

Pressure Ratings (kPa): 3.5 kPa

Ignition Type: Standing Pilot

Combination gas control for use in 24 Vac, 120 Vac, gas-fired, standing pilot appliances with capacities from 30 to 300 cfh.

- Control includes safety shutoff, manual valve, two automatic operators, pressure regulator and pilot adjustment.
- Compact size.
- Provides 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.
- Meets codes requiring dual safety shut-off.
- Natural to LP and LP to Natural conversion kits available for standard and slow opening gas valves.
- All adjustments, wiring connections and pilot outlet are accessible from top of control.
- Adjustable servo regulator effectively maintains almost constant gas output pressure under wide fluctuations in gas supply pressure.
- Compatible with ECO connector.
- LITE-RITE (OFF-PILOT-ON) lighting sequence.

Accessories:

390427A/U – One 3/4 x 1/2 in. reducer bushing

390427B/U – One 1/2 inch x 3/8 inch reducer bushing

390427E/U – Two 3/4 x 1/2 in. reducer bushings

393200-1/U – ECO adapter with 1/4" x 0.032" quick-connect terminals for VR8200 and VR8300 family.

393690-13/U – 1/2" NPT Elbow Flange kit includes flange, o-rings and hex screws

393690-4/U – 3/4" NPT Straight Flange kit includes flange, o-rings and hex screws

393691/U – Single Stage Natural to LP Gas Conversion Kit. 8" to 12" adjustment range. Includes regulator spring, o-ring, adjustment screw and cap screw

394588/U – Single Stage LP to Natural Gas Conversion Kit. 3" to 5" adjustment range. Includes regulator spring, o-ring, adjustment screw and cap screw

395253-1/U – Single Stage LP to Natural Gas Conversion Kit. 5" to 7" WC adjustment. Includes regulator spring, o-ring, and adjustment screw and cap screw

396221/U – Single Stage Natural to LP Gas Conversion Kit. 8" to 12" adjustment range. Includes regulator spring, o-ring, and adjustment screw. Reuse existing cap screw.

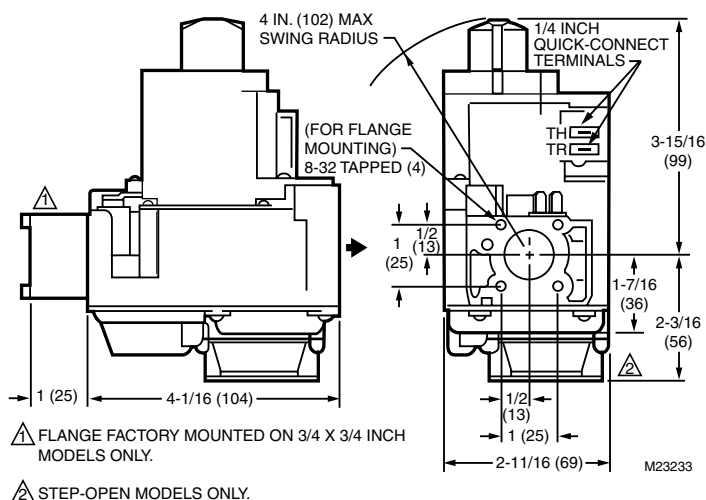
396222/U – Single Stage LP to Natural Gas Conversion Kit. 3" to 5" adjustment range. Includes regulator spring, o-ring, and adjustment screw. Reuse existing cap screw.

	Material Number	Voltage	Frequency	Opening Characteristics	Inlet/Outlet Size (in.)	Pressure Regulator Setpoint (in. wc)	Pressure Regulator Setpoint (kPa)	Electrical Connections	Includes
	VR4300A4502/U	120 Vac	60 Hz	Standard	3/4 in. straight flange on inlet x 3/4 in.	3.5 in. WC	0.87 kPa	21 in. (533 mm) leadwire.	One 1/2 x 3/8 in. reducer bushing Two 3/4 x 1/2 in. reducer bushings Natural to LP Conversion Kit
	VR8300A3500/U	24 Vac	60 Hz	Standard	1/2 in. x 3/4 in.	3.5 in. WC	0.87 kPa	1/4 in. quick-connect male terminals	One 3/4 x 1/2 in. reducer bushing Natural to LP Conversion Kit
	VR8300A3518/U	24 Vac	60 Hz	Standard	1/2 in. x 3/4 in.	3.5 in. WC	0.87 kPa	1/4 in. quick-connect male terminals	One 3/4 in. straight flange One 3/4 x 1/2 in. reducer bushing Natural to LP Conversion Kit Q340 Thermocouple ECO Adaptor
	VR8300A4508/U	24 Vac	60 Hz	Standard	3/4 in. straight flange on inlet x 3/4 in.	3.5 in. WC	0.87 kPa	1/4 in. quick-connect male terminals	Two 3/4 x 1/2 in. reducer bushings Natural to LP conversion kit
	VR8300A4516/U	24 Vac	60 Hz	Standard	3/4 in. straight flange on inlet x 3/4 in.	3.5 in. WC	0.87 kPa	1/4 in. quick-connect male terminals	Two 3/4 x 1/2 in. reducer bushings Natural to LP conversion kit Q340 Thermocouple ECO adaptor
	VR8300C4506/U	24 Vac	60 Hz	Step	3/4 in. straight flange on inlet x 3/4 in.	Step Setting: 0.9 in. WC non-adjustable; Full Rate: 3.5 in. wc	Full Rate: 0.87 kPa; Step Setting: 0.22 kPa	1/4 in. quick-connect male terminals	Two 3/4 x 1/2 in. reducer bushings
	VR8300H4501/U	24 Vac	60 Hz	Slow	3/4 in. straight flange on inlet x 3/4 in.	3.5 in. WC	0.87 kPa	1/4 in. quick-connect male terminals	–
U	VR8300M4406/U	24 Vac	50 Hz; 60 Hz	Standard	3/4 in. x 3/4 in.	3.5 in. WC	0.87 kPa	1/4 in. quick-connect male terminals	Two 3/4 x 1/2 in. reducer bushings Natural to LP Conversion Kit

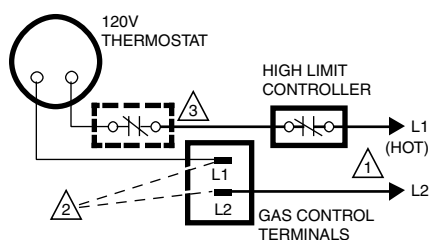
U Universal Service Part

Combination Gas Controls

Dimensions in inches (millimeters)



Wiring connections for 120 volt control



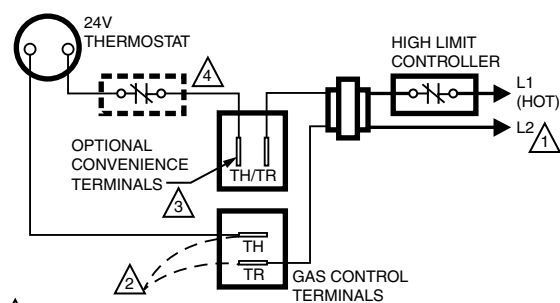
⚠ 1 POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

⚠ 2 DO NOT JUMPER THESE TERMINALS. THIS SHORTS VALVE COIL AND MAY BURN OUT ANTICIPATOR IN THERMOSTAT.

⚠ 3 OPTIONAL HIGH LIMIT.

M3092B

Wiring connections for 24 volt control



⚠ 1 POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

⚠ 2 DO NOT JUMPER THESE TERMINALS. THIS SHORTS VALVE COIL AND CAN BURN OUT ANTICIPATOR IN THERMOSTAT.

⚠ 3 CONVENIENCE TERMINALS SERVE ONLY AS A TIE POINT. THEY ARE NOT INTERNALLY WIRED TO THE CONTROL CIRCUIT OR TO GROUND.

⚠ 4 OPTIONAL HIGH LIMIT.

M2915C