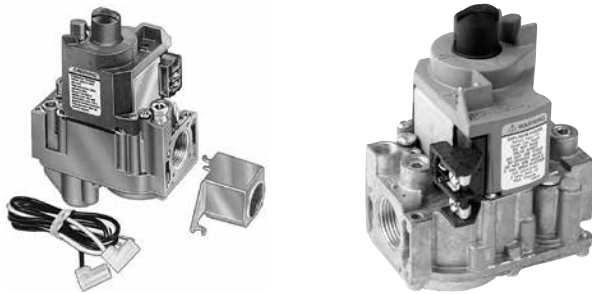


VR4300 Line Voltage; VR8300 Low Voltage Standing Pilot Combination Gas Controls



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

Gas Valve Selection Guide

Gas Valve Selection Guide

Trade Replacements (Double-Check Specifications Before Replacement)		Specifications				Accessories Included					
Universal Service Part	Direct Service Part Replacement	Opening Characteristics (standard, step)	Inlet / Outlet Size (in.)	Pressure Regulator Setting (in. wc)	Temperature Range	Q340 Thermocouple	3/4 in. x 1/2 in. Reducer Bushing	Natural to LP Conversion Kit	3/4 in. Straight Flange	1/2 in. x 3/8 in. Reducer Bushing	Remote Rod Adapter Knob
VR8345M4302	VR8345M4302	Standard	3/4 x 3/4	3.5 in. wc (0.87 kPa)	-40° to 175°F (-40° to 79°C)	None	Two	One	None	None	None
	VR8304M3509	Standard	1/2 x 3/4	3.5 in. wc (0.87 kPa)	-40° to 175°F (-40° to 79°C)	None	One	One	None	None	None
	VR8304M4507	Standard	3/4 x 3/4	3.5 in. wc (0.87 kPa)	-40° to 175°F (-40° to 79°C)	None	Two	One	None	None	None
	VR8305M3506	Standard	1/2 x 3/4	3.5 in. wc (0.87 kPa)	-40° to 175°F (-40° to 79°C)	None	One	One	One	None	None
VR8345K4809	VR8345K4809	Slow	3/4 x 3/4	3.5 in. wc (0.87 kPa)	-40° to 175°F (-40° to 79°C)	None	Two	One	None	None	None
	VR8205H1003	Slow	1/2 x 1/2	3.5 in. wc (0.87 kPa)	0° to 175°F (-18° to 79°C)	None	None	None	None	None	None
	VR8304H4503	Slow	3/4 x 3/4	3.5 in. wc (0.87 kPa)	0° to 175°F (-18° to 79°C)	None	None	One	None	None	None
VR8345Q4563	VR8345Q4563	2-Stage	3/4 x 3/4	1.7 in. wc (0.42 kPa) low; 3.5 in. wc (0.87 kPa) high	-40° to 175°F (-40° to 79°C)	None	Two	One	None	None	None
VR8245M2530	VR8245M2530	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	-40° to 175°F (-40° to 79°C)	None	None	One	None	One	None
	VR8204A2076	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	0° to 175°F (-18° to 79°C)	None	None	One	One	One	None
	VR8204M1091	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	-40° to 175°F (-40° to 79°C)	None	None	One	One	One	None
	VR8205A2024	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	0° to 175°F (-18° to 79°C)	None	None	One	One	One	None
VR8215	VR8215S1503	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	-40° to 175°F (-40° to 79°C)	None	None	One	None	None	None
	VR8215T1502	Slow	1/2 x 1/2	3.5 in. wc (0.87 kPa)	-40° to 175°F (-40° to 79°C)	None	None	One	None	None	None
VR9205Q	VR9205Q1507	2-stage	1/2 x 1/2	1.7 in. wc (0.42 kPa) low; 3.5 in. wc (0.87 kPa) high	-40° to 175°F (-40° to 79°C)	None	None	One	None	None	None
VR8300M4406	VR8300M4406	Standard	3/4 x 3/4	3.5 in. wc (0.87 kPa)	-40° to 175°F (-40° to 79°C)	None	Two	One	None	None	None
	VR8300A4508	Standard	3/4 x 3/4	3.5 in. wc (0.87 kPa)	0° to 175°F (-18° to 79°C)	None	Two	One	None	None	None
	VR8300A3500	Standard	1/2 x 3/4	3.5 in. wc (0.87 kPa)	0° to 175°F (-18° to 79°C)	None	One	One	None	None	None
	VR8200A2124	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	0° to 175°F (-18° to 79°C)	One	None	One	One	One	None
	VR8200A2132	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	0° to 175°F (-18° to 79°C)	None	None	One	One	One	None
	VR8200A2744	Standard	1/2 x 1/2	3.5 in. wc (0.87 kPa)	0° to 175°F (-18° to 79°C)	None	None	One	One + One Elbow	One	None
VS820M1309	VS820M1309	Standard	3/4 x 3/4	3.5 in. wc (0.87 kPa)	-40° to 175°F (-40° to 79°C)	None	Two	One	None	One	Yes
	VS820A1054	Standard	3/4 x 3/4	3.5 in. wc (0.87 kPa)	32° to 175°F (0° to 79°C)	None	Two	None	None	One	None
	VS820A1336	Standard	3/4 x 3/4	10.0 in. wc (2.49 kPa)	32° to 175°F (0° to 79°C)	None	Two	None	None	One	None

Notes:

All piloted valves have a 1/4" compression fitting.

All the VR valves come set for natural gas, but can be converted to LP gas.

The VS820A1054 is for natural gas. The VS820A1336 is for LP gas.

All the VR valves have inlet and outlet pressure taps. The VS820 valves have just an outlet pressure tap.

Gas Valve Cross Reference Guide

Trade Replacements (Double-Check Specifications Before Replacement)		Competitive Replacements		
Universal Service Part	Direct Service Part Replacement	Honeywell	White-Rogers	Robertshaw
VR8345M4302	VR8345M4302		36E36-304, 36C68-423, 36H32-423	
	VR8304M3509	VR8304M2501		
	VR8304M4507	VR8304M4002, VR8304M4804		
	VR8305M3506	VR8305M4066, VR8305M4165, VR8305M4231	36G22-214, 36C68-423	720-051 (7200DER)
VR8345K4809	VR8345K4809	VR8304K3808, VR8304K4814	36E98-304, 36E24-214, 36E52-214	700-052
	VR8205H1003	VR8205H2605, VR8305H4013, VR8305H4039		
	VR8304H4503	VR8204H1006, VR8204H1055		720-070 (7200IPER-S7C), 720-071 (7200IPER-S7C), 720-072 (7200IPER-S7C), 720-073 (7200IPER-LP-S7C)
				720-082 (7200IPER2-4)
VR8345Q4563	VR8345Q4563	VR8205Q2381, VR8205Q2555, VR8205Q2662, VR8205Q2746, VR8205Q2787, VR8304Q4453, VR8304Q4511, VR8305Q4138, VR8305Q4146, VR8305Q4195, VR8305Q4500	36C76-406, 36C76-420, 36C76-463, 36D13-208, 36D13-405, 36E54-214, 36E96-314, 36G54-214	
VR8245M2530	VR8245M2530	VR8204A2852, VR8205M1080, VR8205M1106, VR8205M2310, VR8205M2443, VR8205M2450, VR8205M2476	36E36-304, 36E22-214	720-079 (7200IPER), 720-080 (7200IPER-LP) 722-079 (2000IPERHC)
	VR8204A2076	VR8204A1201, VR8204A1219, VR8204A2001, VR8204A2035, VR8204A2043, VR8204A2175, VR8204A2183, VR8204A2241, VR8204A2225, VR8204A2803		
	VR8204M1091	VR8204M1075, VR8204M1232	36E01-204, 36E01-205, 36E01-206, 36E01-305, 36E93-304	
	VR8205A2024	VR8205A2008, VR8205A2081	36G22-214, 36J22-214	722-051 (2000DERHC), 720-051
VR8215	VR8215S1503	VR8205S2262, VR8205S2270, VR8205S2296, VR8205S2338, VR8205S2353, VR8205S2361, VR8205S2379, VR8205S2395, VR8205S2437, VR8205S2858, VR8205S2882, VR8205S5802, VR8205S5828, VR8205S5836, VR8205S5844, VR8215S1222, VR8215S1263, VR8215S5207, VR8215S5215, VR8205A2008, VR8205A2016, VR8205A2024, VR8205A2065, VR8205A2081, VR8205A2131, VR8205A2263, VR8205A2800, VR8205M1080, VR8205M1106, VR8205M1122, VR8205M1130, VR8205M1148, VR8205M1155, VR8205M1163, VR8205M2310, VR8205M2401, VR8205M2476, VR8205M2484, VR8205M2831, VR8205M2864, VR8205M2872, VR8205M2880, VR8205M5024, VR8205M5032	36G22-214, 36J22-214, 36G22-207	
	VR8215T1502	VR8205H1003, VR8205H1011, VR8205H2605, VR8205H2621, VR8205K1157, VR8205K1173, VR8205K2247, VR8205K2593, VR8205K2619, VR8205T5801, VR8215T1205, VR8215T1239, VR8215T5206, VR8215T5214		
VR9205Q	VR9205Q1507	VR9205Q1006, VR9205Q1010, VR9205Q1028, VR9205Q1101, VR9205Q1127, VR9205Q1218		
VR8300M4406	VR8300M4406	VR8300A4003, VR8300A4011, VR8300A4037, VR8200A2827, VR8300A4045, VR8300A4557, VR8300A4565	36C03-400, 36C03-433	700-400
	VR8300A4508	VR8300A4003, VR8300A4011, VR8300A4037, VR8300A4045, VR8300A4557, VR8300A4565	36C01-405	700-400, 720-406 (7200ER)
	VR8300A3500	VR8300A3104, VR8300A3120, VR8300A3153, VR8300A3161, VR8300A3203, VR8300A3559, VR8300A3567, VR8300A3575	36C03-300, 36C03-258	720-404 (7200ER), 720-400, 720-402
	VR8200A2124	VR8200A2009, VR8200A2082, VR8200A2116, VR8200A2215, VR8200A2264, VR8200A2322, VR8200A2348		720-400 (7200ER), 720-402 (7200ER)
	VR8200A2132			
	VR8200A2744	VR8200A2322		
VS820M1309	VS820M1309	VS820A1039, VS820A1807, VS820A1815, VS820A2003, VS820A2011	36C03U-300, 36C03U-333, 36C03U-400, 36C03U-433	
	VS820A1054	VS820A1005, VS820A1013, VS820A1047, VS820A1260, VS820A1278, VS820A1922, VS820A5204		
	VS820A1336	VS820A1120, VS820A1211, VS820A1740, VS820A1872, VS820A1898, VS820A1906		

*Canadian Numbers
For a complete cross-reference, visit www.customer.honeywell.com