

# Gas Valve Replacement Kit Prestige Solo 399



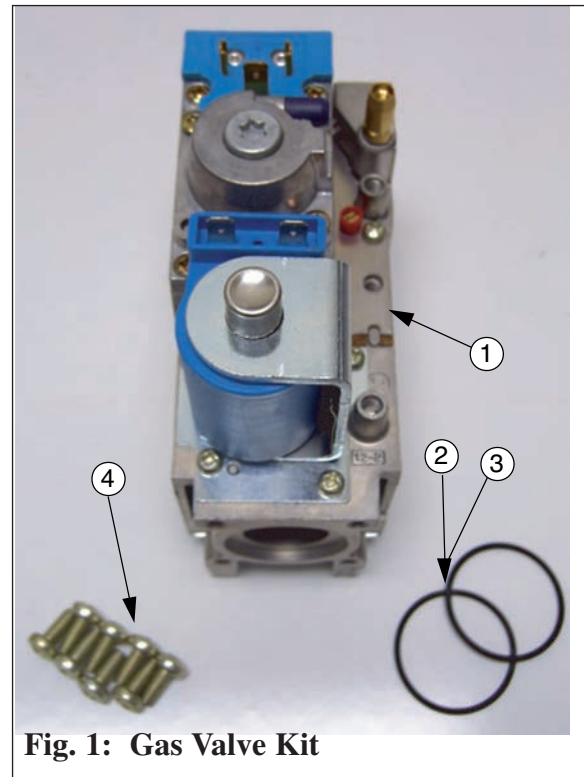
**Kit Part Number: PSRKIT41**

## Parts List (Fig. 1)

1. Honeywell Gas Valve VR8615VB
2. Gas Valve/Supply Pipe O-ring
3. Gas Valve/Outlet Pipe O-ring
4. (8) - M5 Phillips Head Screws.

## Recommended Tools:

1. Adjustable Wrench.
2. Phillips Head Screwdriver
3. Small Flat Head Screwdriver



**Fig. 1: Gas Valve Kit**

### WARNING

**Indicates a potentially hazardous situation which, if ignored, can result in serious injury or substantial property damage.**

### NOTICE

**Indicates special instructions on installation, operation or maintenance, which are important to equipment but not related to personal injury hazards.**

### WARNING

Failure to follow instructions below can result in severe personal injury or damage if ignored.

- Instructions are for a qualified installer/service technician.
- Read all instructions before proceeding.
- Follow instructions in proper order.

### NOTICE

**This kit is designed for gas valve replacement on the Prestige Solo 399 only.**

### WARNING

**For your safety, turn off electrical power supply at service panel before proceeding to avoid possible electrical shock hazard. Failure to do so can cause severe personal injury or death.**

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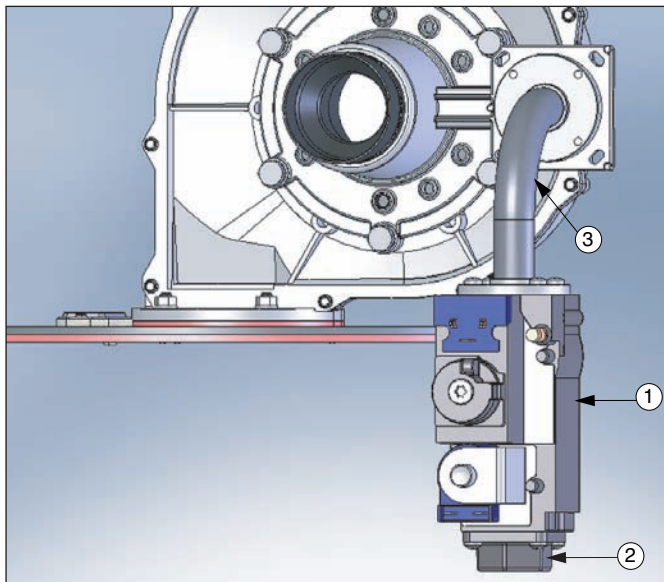
# Gas Valve Replacement Kit

## Prestige Solo 399

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### PRESTIGE 399 BOILER INSTRUCTIONS:

1. Turn power to the unit “OFF”
2. Shut off the gas supply to the boiler at the main manual shut off valve.
3. Remove the front jacket panel and swing away the control module panel.
4. Remove the wires to the gas valve.
5. Disconnect the gas supply piping inside the PRESTIGE at the union located just before the gas valve.
6. Remove the 4 screws on the top of the gas valve, securing the gas valve outlet extension pipe to the valve, see Fig. 2.



1. Gas Valve
2. Gas Valve Supply Piping Adapter
3. Gas Valve Outlet Extension Pipe

**Fig. 2: Prestige 399 Gas Valve Assembly**

7. Remove the gas valve from the PRESTIGE unit.

8. Remove the 4 screws securing the gas valve supply piping adapter to the gas valve, see Fig. 2.
9. Remove the O-rings in the gas valve supply piping adapter and gas valve outlet extension pipe.
10. Install the gas valve supply piping adapter and O-Ring gasket on the new gas valve using 4 screws supplies in kit. Ensure screws are tight.
11. Install the new gas valve and O-Ring gasket to the gas valve extension using the 4 screws supplies in kit. Ensure screws are tight.
12. Reconnect the gas supply piping using two wrenches. Open the manual gas shut off valve to check and test all gas connections for leaks before placing the PRESTIGE unit back into operation. Repair leaks if found.

### WARNING

**Do not check for gas leaks with an open flame. Use a bubble test. Failure to check for gas leaks can cause severe personal injury, death or substantial property damage**

13. Reconnect the wires to the gas valve, see Fig. 3.
14. Reposition the control module panel and reattached the front jacket panel.
15. Turn the electrical power “ON” to the PRESTIGE to return the unit back into service.

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### COMBUSTION TEST

1. The installer **MUST** perform a complete combustion check to ensure the following combustion levels are met at high and low input firing rates and the burner is operating at optimum conditions.

	Natural Gas	Propane
O <sub>2</sub> Min.	2.30%	3.70%
O <sub>2</sub> Max.	5.30%	5.20%
CO <sub>2</sub> Min.	8.80%	10.00%
CO <sub>2</sub> Max.	10.50%	11.00%
CO Max.	100 ppm	100 ppm

### WARNING

The combustion testing and adjustments must be performed by a qualified installer, service agency or the gas supplier. All combustion measurements must be performed with calibrated equipment to ensure proper readings and accuracy.

### WARNING

Failure to perform a complete combustion test at both high and low input rates may result in incomplete combustion and the production of carbon monoxide, which can cause severe personal injury, death or substantial property damage.

2. Manually place the boiler into high fire mode by pressing the MODE button with “+” button simultaneously on the control panel display while in the standby (STBY) mode.

### NOTICE

The control panel will display an H followed by the current boiler temperature when placed into high fire test mode.

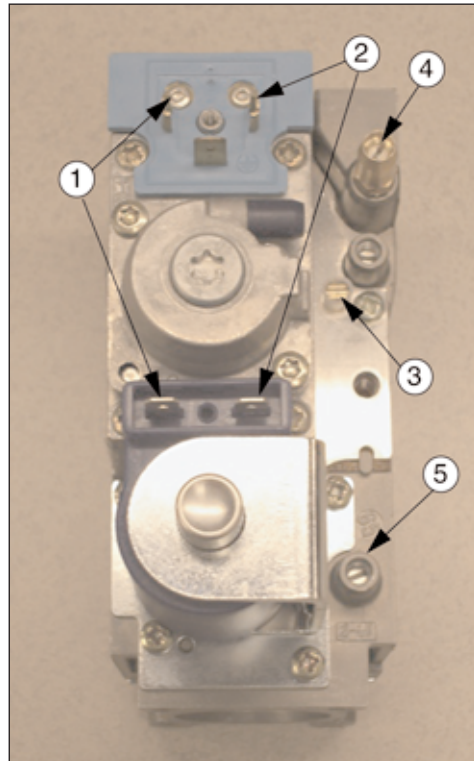
If the combustion levels during high fire is outside the recommended combustion settings adjust the THROTTLE SCREW (see Fig. 3) as follows:

**Counter-clockwise adjustment of the throttle screw at high fire:**

O<sub>2</sub> decreases and CO<sub>2</sub> increases

**Clockwise adjustment of the throttle screw at high fire:**

O<sub>2</sub> increases and CO<sub>2</sub> decreases



1. Brown Wire
2. Blue Wire
3. Throttle Screw
4. Offset Screw
5. Inlet Pressure Tap Gas Valve

**Fig. 3: Gas Valve Wiring & Combustion Adjustment**

4. Once the combustion level is set at high fire, manually place the boiler into low fire mode by pressing the MODE button with “-” button simultaneously on the control display while in the standby (STBY) mode.

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# Gas Valve Replacement Kit

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### NOTICE

**The control panel will display a L followed by the current boiler temperature when placed into low fire test mode.**

5. If the combustion level during low fire is not within  $\pm 0.2\%$  of the combustion level measured at high fire, adjust the metal offset screw inside the brass fitting on the top right of the gas valve (see Fig. 3) as follows.

**Counter-clockwise adjustment of offset screw at low fire:**

O<sub>2</sub> increases and O<sub>2</sub> decreases

**Clockwise adjustment of offset screw at low fire:**

O<sub>2</sub> decreases and CO<sub>2</sub> increases