

## IMPORTANT INFORMATION

### ADDENDUM TO THE INSTALLATION, START-UP, OPERATING AND MAINTENANCE INSTRUCTIONS SERIES 110 OR SERIES B TWO-STAGE 90% CONDENSING FURNACES WITH PSC OR ECM BLOWER MOTORS

This furnace is equipped with the White-Rodgers Series J valve. This instruction sheet is to familiarize you with Series J gas valve and is to be used to check and adjust gas pressure for proper installation and start-up.

This sheet is needed to complete the "Adjustments" section of the "Start-up Procedures" section of the Installation, Start-up, Operating and Maintenance Instructions.

See Fig. 1 for two-stage gas valve. This version of the J valve has standard 1/8" NPT inlet and outlet pressure taps that are removable with a 3/16" hex head wrench for connection to a manometer and Low Gas Pressure Switch (when used). For conversions to propane gas, refer to the instructions in the Natural to Propane Conversion Kit, KGANP4101ALL.

The major difference in the two-stage J valve, in addition to compact design, is the location of the Low and High stage regulators. Both regulators are located on top of the valve and are marked "Lo" and "Hi" next to the regulator seal caps. Each regulator spring is adjustable with a standard 3/16" or smaller flat-tipped screwdriver.

The J series valve IS NOT a dual-fuel gas valve. Conversion to propane requires the replacement of BOTH regulator adjustment springs. The propane Low stage and High stage springs are identical and the 2 springs are included in the Natural to Propane Conversion Kit, KGANP4101ALL.

### IMPORTANT INFORMATION FOR FURNACES INSTALLED IN CANADA IMPORTANT

Furnaces installed in Canada must use Vent Systems that are certified to the Standard For Type BH Gas Venting systems, ULC-S636. ULC-S636 certifies plastic vent system material or the components of ULC-S636. ULC-S636 certified vent systems must not be interchanged with other vent systems or unlisted pipe/fittings. Vent components supplied with the furnace and components in factory-authorized vent kits may be used with ULC-S636 certified vent systems. The ULC-S636 certified plastic components, and special primers and glues of the certified system must be from a single system manufacturer and not mixed with other system manufacturer's vent system parts. The first 3 feet (900 mm) of the venting system must be readily accessible for inspection. The combustion air system is not required to be ULC-S636 certified.

**IMPORTANT:** *This sheet MUST be inserted into the Installation, Start-up, Operating and Maintenance Instructions and left with the furnace.*

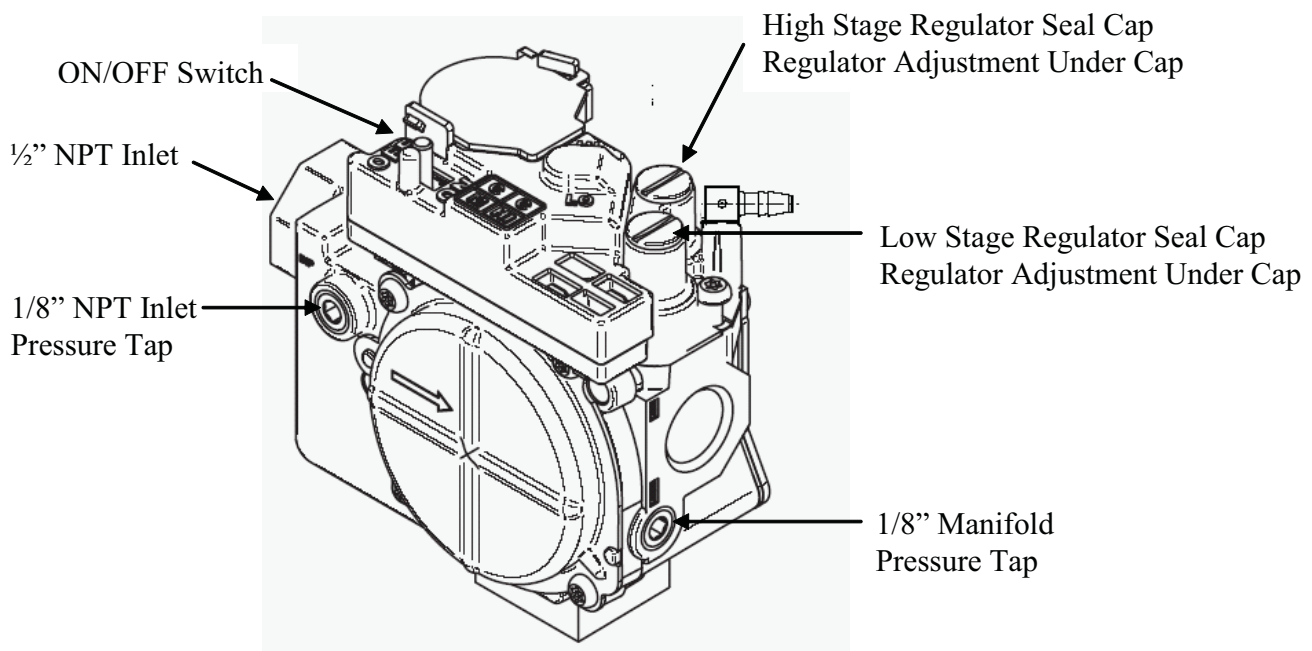


Fig. 1 - Two-Stage Gas Valve

# IMPORTANT INFORMATION FOR FURNACES INSTALLED IN THE COMMON- WEALTH OF MASSACHUSETTS

Required Notice for Massachusetts Installations

## IMPORTANT

The Commonwealth of Massachusetts requires compliance with regulation 248 CMR as follows:

5.08: Modifications to NFPA-54, Chapter 10

2) Revise 10.8.3 by adding the following additional requirements:

(a.) For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

1. **INSTALLATION OF CARBON MONOXIDE DETECTORS.** At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gasfitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gasfitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors

a. In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.

b. In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

2. **APPROVED CARBON MONOXIDE DETECTORS.** Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.

3. **SIGNAGE.** A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2)

inch in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".

4. **INSPECTION.** The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.

5. **EXEMPTIONS:** The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

(1.) The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and

(2.) Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

(c.) **MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM PROVIDED.** When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

1. Detailed instructions for the installation of the venting system design or the venting system components; and

2. A complete parts list for the venting system design or venting system.

(d.) **MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM NOT PROVIDED.** When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:

1. The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and

2. The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

(e.) A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

For questions regarding these requirements, please contact the Commonwealth of Massachusetts Board of State Examiners of Plumbers and Gas Fitters, 239 Causeway Street, Boston, MA 02114. 617-727-9952.

For additional venting information, contact [www.carrier.com](http://www.carrier.com).