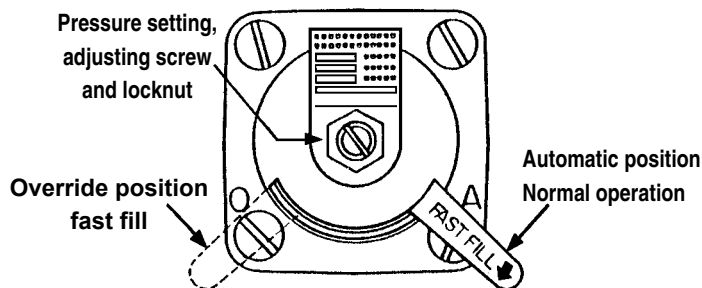


# Reducing Valve and Dual Control Valve Instruction Sheet



- The Reducing Valves automatically maintain system pressure. In addition, the Reducing Valves are equipped with a “fast fill” lever that can be used to override automatic closing during purging.
- The Dual Control Valve consists of a Reducing Valve with an in-line pressure relief valve connected at its outlet end.

- (1.) Install the Reducing Valve or the Dual Control Valve in a horizontal position in the cold water supply pipe to the boiler.
- (2.) Install a shut-off valve on the upstream side of the Reducing Valve. This shut-off valve, provided for isolation purposes during maintenance, must be open at all times during operation so that the Reducing Valve can maintain pressure automatically.
- (3.) Flush out the supply pipe to clear it of scale, dirt, and other foreign particles before connecting it to the inlet of the Reducing Valve.
- (4.) For the Dual Control Valve, connect a pipe from the “Drain” connection on the bottom of the Relief Valve. Direct this pipe to a convenient open drain, such as a floor drain or set tubs. Do not install a valve of any kind in this drain pipe. The pipe must always pitch down from the valve, with no part of it above the valve. The pipe must also be no smaller than the valve drain connection size.

## Operation:

- (1.) To fill the system, open the shut-off valve upstream of the Reducing valve. This shut-off valve must always be kept open when the system is in operation.
- (2.) The “Fast Fill” lever must be pushed completely to the side of the cover slot (so that the lever is over the “A” on the cover flange). The “A” stands for “Automatic” operation, and the supply water will flow into the system until it’s full and under pressure (see diagram).
- (3.) The Wheatley Reducing Valves have such a high flow capacity that the “Fast Fill” feature is not usually needed during filling. Instead, the feature is supplied for use during purging of the system. By moving the lever to the side with the “O” on the cover flange (“Override” position), the valve will be held open. With the valve being held open, the closing action of pressure increases against its diaphragm is overcome.
- (4.) After filling and purging, the “Fast Fill” lever must be placed at the “Automatic” of “A” position, and not moved during system operation. This position allows the valve to maintain normal pressure in the system automatically.
- (5.) The Reducing Valve is factory set to deliver water to the boiler at 12-14 psi. The pressure is sufficient for a 3-story building. To determine the required pressure if the factory setting is not sufficient to lift the water to the highest radiation, calculate the number of feet from the regulator to the top of the highest radiation. Multiply this by .43 and add 3 psi. This is the pressure needed to raise the water to the highest radiation and keep it under sufficient pressure. To increase the valve setting, loosen the locking nut on the adjusting screw at the top of the valve. Turn the adjusting screw in (clockwise) slowly until the gauge indicates the pressure calculated. Then lock the adjusting screw with its locking nut.
- (6.) The pressure relief valve of the Dual Control Valve is non-adjustable, and is set to relieve at 30 psi.