

WATER HEATER SHUTOFF/
THERMAL EXPANSION
CONTROL VALVE

MODEL EXV

GENERAL INSTALLATION
AND OPERATION
INSTRUCTIONS

SAVE THESE INSTRUCTIONS
IMPORTANT



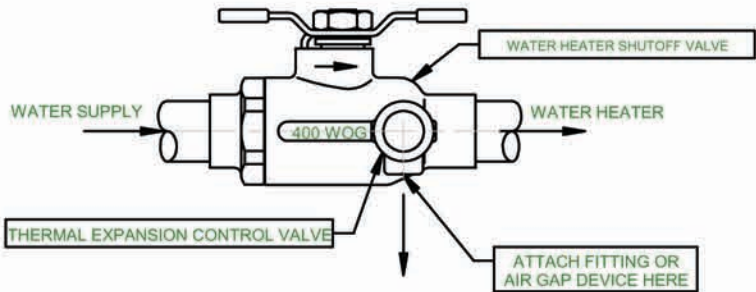
INSTALLATION, OPERATION
AND MAINTENANCE OF WATER
HEATER SHUTOFF/THERMAL EXPANSION
CONTROL VALVES

The Apollo EXV Thermal Expansion Control Valve is designed for intermittent operation to relieve the pressure increase caused by thermal expansion. The valve can be used in lieu of an expansion tank. This device DOES NOT replace a temperature and pressure safety relief valve. One Thermal Expansion Control Valve shall be used on each water heater.

INSTALLATION

The Apollo EXV should be installed in the piping system as shown in the figure below. WARNING: The control valve portion must be positioned on the water heater side of the Water Heater Shutoff/Thermal Expansion Control Valve and must be positioned downward.

Areas adopting the 1997 edition of the International Plumbing Code, must use a relief setting of 80 PSIG. A pressure reducing valve should be installed upstream of the device to control unintended discharges. It is recommended that the pressure reducing valve be set at a maximum of 70 PSIG.



THREADED END INSTALLATION

- Pipe connections to be threaded into these valves should be accurately threaded, clean and free of dirt and metal shavings.
- Teflon tape is recommended for use as the pipe joint sealant.
- Use two wrenches when making the pipe joint. Apply one wrench on the hex pads nearest the joint being tightened to prevent breaking the retainer-to-body seal.

SOLDER END INSTALLATION

- Piping connections to be soldered into these valves should be cut square and then cleaned with an appropriate cleaner or flux.
- These valves are designed to be soft soldered. Apply heat with the flame directed AWAY from the center of the valve body. Excessive heat can harm the ball valve TFE seats and cause damage to the control valve. Solder valves only in the fully opened position.

DISCHARGE LINE/AIR GAP DEVICE CONNECTION

- After installation of the valve into the piping system, a proper discharge line of not less than 0.245 inches internal diameter shall be attached at the outlet of the Thermal Expansion Control Valve (shown above). As an alternate, an air gap device may be connected to the outlet of the Thermal Expansion Control Valve.
- The discharge line shall be run independently of the water heater relief valve discharge line to a suitable drain and shall terminate at least 6 inches above the drain. The end of the discharge line shall not be threaded.
- The discharge line shall be anchored or restrained to prevent movement upon discharge.

NOTE: The ENTIRE run of discharge line shall be located below the outlet of the Thermal Expansion Control Valve so as to continually drain downward. No Section of the discharge line shall be in an upward position.

OPERATION

The shutoff valve is opened by rotating the handle counterclockwise and closed by rotating the handle clockwise. The valve is in the full open position when the handle is parallel with the valve run.

MAINTENANCE

Field repair of the Water Heater Shutoff/Thermal Expansion Control Valve is not recommended. The Control Valve relieving pressure is preset at the factory and cannot be adjusted. If different pressure is desired or if control valve is leaking prematurely, replace with preferred repair kit.

Repair Kits			
Model	LF Model	PSI	Connection
78004RK	78LF004RK	125	BARB
78014RK	78LF014RK	100	BARB
78024RK	78LF024RK	80	BARB
78005RK	78LF005RK	125	PEX
78015RK	78LF015RK	100	PEX
78025RK	78LF025RK	80	PEX
78006RK	78LF006RK	125	COM
78016RK	78LF016RK	100	COM
78026RK	78LF026RK	80	COM
78007RK	78LF007RK	125	1/2" NPT/SWT
78017RK	78LF017RK	100	1/2" NPT/SWT
78027RK	78LF027RK	80	1/2" NPT/SWT

THIS PRODUCT MEETS THE REQUIREMENTS OF THE EPA SAFE DRINKING WATER ACT.