



INSTALLATION, OPERATION AND MAINTENANCE GROTH MODEL 8500 THERMAL VALVE AND FLAME TRAP ASSEMBLY

General:

The Groth Model 8500 is composed of a Model 7628 eccentric flame arrester mounted upstream to a Model 8530 thermal shut off valve.

Installation:

The Model 8500 should be installed upright with its axis in a horizontal position for best performance and ease of maintenance. This position will also allow the eccentric flame arrester to be self draining. Note the flow arrow on the thermal valve body. The thermal valve should be downstream of the flame arrester. Provide at least 10 inches of clearance underneath the thermal valve for replacement of the thermal fuse when required.

Caution

Align and install adjustment piping so that no undue stress is imposed on the valve body. Do not overtighten threaded connections. Damage or breakage may result.

Operation:

The operation of the Model 8500 is automatic. There are no adjustment to be made. During normal operation the thermal valve is held in the open position by a replaceable thermal fuse. If a fire reaches the thermal valve and melts the fuse the valve will close. Closing of the valve is accomplished by gravity and a light spring. The fuse must be replaced to hold the valve open when conditions return to normal.

Maintenance: Thermal Valve

The thermal valve may be inspected without disassembly to see whether or not it has actuated. Remove the protective cap on top. If the valve stem is visible (sight glass obstructed) the valve is in full open position. If the valve stem is not visible (sight glass unobstructed) the fuse has activated and the valve is in the closed position. Before any maintenance is attempted, be certain that all pressure to the valve is wither blocked or vented safely. If the valve is still hot after a fire, wear protective garment or wait until the valve is cool. To replace the fuse, unscrew the fuse retainer bushing at the bottom of the valve and retract the tube with the fuse holder inside. Remove all molten fuse material.

Insert a new fuse (5/16" diameter by approximately 17/32" long rod of special alloy) into the cross holes of the fuse holder and place the holder into the counterbore of the tube. With the fuse at the upper end of the tube and the threaded retainer at the bottom, insert the tube into the valve and guide it to allow the bottom end of the valve stem to enter the fuse holder and rest firmly against the fuse. Push up slowly against the spring until the bushing is threaded into the body. Tighten the bushing until it is snug. The valve is now in the open position ready for normal operation. Verify valve position by looking at the sight glass.

Flame Arrester:

Refer to separate instructions for maintenance of the flame arrester.

NOTICE Please specify model, size and serial number when ordering replacement parts.