



IOM 8450.0
November 1994



INSTALLATION, OPERATION AND MAINTENANCE

GROTH MODEL 8450 AUTOMATIC DRIP TRAP

Installation:

The drip trap should be installed with the axis of the bowl in a horizontal position and the inlet/outlet ports along a vertical axis with the outlet at the bottom. Additionally, the bowl should be oriented with the small plugged drain port at the bottom. If the condensate is to be piped away, use appropriate fittings, pipe and/or tubing to pipe away at the 1" outlet port only. Do not pipe away at the small plugged drain port. Provide sufficient clearances for easy access to perform maintenance when required.

WARNING

The model 8450 should not be used in systems with pressure exceeding 10 psig. Higher system pressure may prevent the drip trap from opening. Align and install inlet and outlet piping so that no undue stress is imposed on the drip trap. Do not overtighten threaded connections; damage or breakage may result.

Operation:

The operation of the drip trap is fully automatic. When the liquid level rises sufficient to lift the float, the seat will open to drain. The seat will close when the liquid level drops in the bowl. The geometry of the float and seat is such that the seat will close when the liquid level is still above the seat. This provides a liquid seal to prevent gas from escaping.

Maintenance:

It is important to regularly inspect and clean drip traps and their seating surfaces. Frequency of maintenance depends on the severity of the service. Before any maintenance is attempted, be certain that all pressure to the inlet is blocked and internal pressure has been safely vented.

To clean, remove the bowl [1] from the cover [6] and clean as required. No further disassembly is necessary unless worn parts need replacing.

If disassembly is necessary, refer to the assembly drawing, C-85052 (or similar drawing). Reassemble in reverse order with special attention to the following:

1. Inspect the drilled hole in the seat bushing [10]. It must be completely cleaned or it will obstruct the discharge of liquid. Lap the plunger [12] and bushing [10] together if there is corrosion or pitting on the seating surfaces; replace as required.
2. The flat washer-like plastic thrust bearings [16] should be installed adjacent to the pivot arm, one on each side.
3. The single longer sleeve bearing [18] fits inside the pivot arm and the two shorter ones [17] fit between the thrust bearing and the cast ears, one on each side of the pivot arm.
4. The threaded rod [8] attached to the float [9] should be adjusted while the cover [6] is in the normal vertical position (seat closed). The gap between the end of the threaded rod [8] and the cover [6] should be 1/8" to 3/16".

NOTICE: Please specify model, size and serial number when ordering replacement part