GROTH CORPORATION®
A Continental Disc Company

**IOM 8460.1**
**February 2003**

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# INSTALLATION, OPERATION AND MAINTENANCE
# GROTH MODELS 8460 AND 8470 MANUAL DRIP TRAPS

## Installation

The drip trap should be installed with the axis of the bowl in a horizontal position and the inlet/drain ports along a vertical axis with the drain at the bottom. If the condensate is to be piped away, use appropriate fittings, pipe, and/or tubing to pipe away at both the drain and vent ports. Provide sufficient clearances for easy access to operate and perform maintenance, plus room for the handle to swing.

*WARNING*
***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. Maximum working pressure must not exceed 10 PSIG for the Model 8460 and 60 PSIG for the Model 8470.***

## Operation

The cover and handle clearly show the two operating positions. The normal operating mode is with the drain closed (handle in the horizontal position). To drain, slowly turn the handle counterclockwise until it is in the vertical position. There are automatic stops on the handle in both the horizontal and vertical positions. After draining, return the handle to the horizontal position to allow the drip trap to refill. Repeat the draining process until all condensate is drained, then return the handle to the horizontal position for normal operation.

*Caution*
*Unless the vent port is properly piped away, stand clear of the vent port when operating the handle to drain, Condensate and/or gas may discharge form the vent port when it is open. The bottom drain port may also splatter.*

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

## Maintenance

It is important to regularly inspect and clean drip traps, especially their seating surfaces. Frequency of this inspection and maintenance will depend upon the severity of the service.

Before any maintenance is attempted, be certain that all pressure to the inlet is blocked and all internal pressure in the drip trap has been safely vented.

To clean the bowl [1], remove it from the cover [3] and clean as required.

To disassemble the cover for cleaning, inspection, or parts replacement, refer to the assembly drawing, C-85929 (or similar drawing). Remove the central bolt [7] and withdraw the handle [4] and shaft [14] from the cover [3]. Observe the location and sequence of components as you disassemble.

Reassemble in reverse order of disassembly with special attention to the following:

1. The four belleville washers [12] should be stacked back- to back in series and NOT cupped into one another.
2. All O-rings [6,11] should be lubricated with a waterproof grease.
3. The thin teflon bearing diaphragm [10] should be sandwiched between the cover [3] and disk plate [5]; lightly lubricate both sides.
4. The disc plate [5] should be installed with the smooth side, with a machined concentric groove, towards the cover [3].
5. Be certain that the key [13] is in place.
6. The belleville washer [8] should be installed with the raise side under the lock washer [17] and bolt [7]. Torque until snug.
7. Early model bowls have a small drain port that is normally plugged. The plug should be pointed downward when the bowl is attached to the cover. This is particularly important when a 6-quart bowl is used. (The 6-quart bowl mounting flange is eccentric to the body.)