

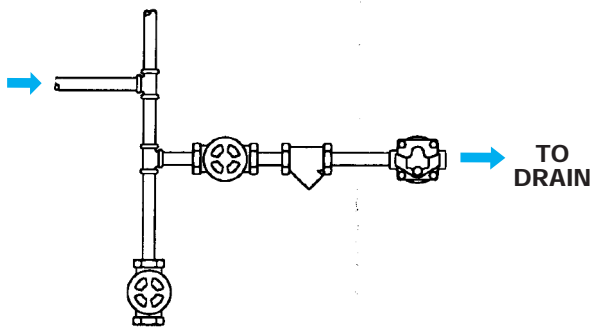
Installation Guidelines

Liquid Drain Traps

PROPER INSTALLATION OF LIQUID DRAINERS

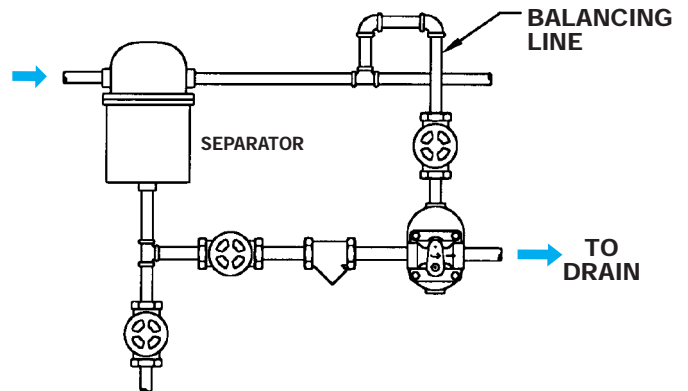
Liquid Drain Traps are primarily used to remove condensation from air and other non-condensable gas lines. The proper liquid drain trap should be selected based on several parameters; including installation, limitations and the amount of liquid to be drained.

If a Ball & Float Type Drain Trap is selected, typically it is necessary to add a Balancing (or Equalizing) Line to allow any air or gases trapped in the drainer to escape. If the Balancing Line is not installed, these gases can prevent proper operation by air-binding the trap. Inverted Bucket Type & Disc Type Traps will self-vent eliminating the risk of air-binding and therefore do not require Balancing Lines.



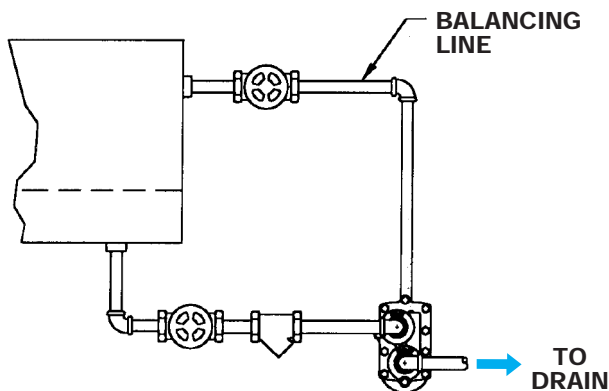
Draining Condensate from an Air Line Drip Pocket with a Float Type Drainer

Due to the small amount of condensate normally found in drip leg applications, a small Ball & Float Type Liquid Drainer can be used and a Balancing Line is not required. However, a minimum pipe connection size of 3/4" is recommended for this type of application.



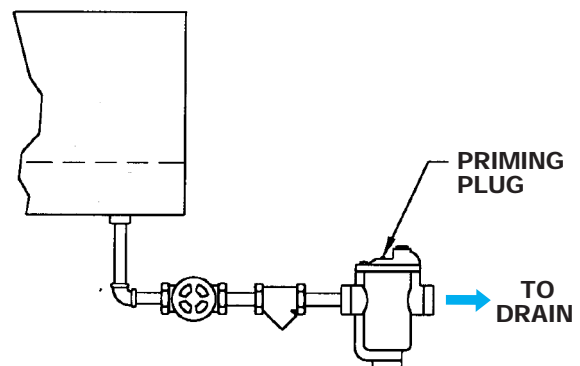
Draining Condensate from a Separator on a Large Air Main with a Float Type Drainer

Due to the large amount of condensate normally found in air mains or from the discharge of air compressors, a larger Ball & Float Type Liquid Drainer must be used and a Balancing Line is required. Note that the Balancing Line is discharging to the top of the separator outlet into the "air space" of the pipe.



Draining Condensate from a Receiver with a Float Type Drainer

When draining a receiver, a large trap is typically required in order to handle the liquid load. If a Ball & Float Type Liquid Drainer is used, a Balancing Line is required. Make certain that the Balancing Line connection to the receiver is above the water line.



Draining Condensate from a Receiver with an Inverted Bucket Trap

In this example, an Inverted Bucket Type Liquid Drain Trap is used. The Inverted Bucket Trap has a small internal orifice which permits the venting of air, and therefore does not require a Balancing Line. However, it is important to make certain that the Inverted Bucket Trap is primed with liquid before operation. Note: See installation manual for proper priming procedures.