

Pneumatic No Air Loss Drain

PNLD 16 Installation Zero Air Discharge

This drain is designed to operate on compressed air systems having 70 to 120 PSIG system pressure. Total water accumulated during a cycle is 16 ounces. Only 12 ounces are discharged upon activation, thus preventing loss of costly compressed air during the discharge cycle.

Install this drain on 2 horsepower to 100 horsepower compressors, at the aftercooler, air receiver, drier and any other low spot where condensate will accumulate.

System pressure powers the actuator. No separate pilot air hookup is necessary. Installation is simple:

Before beginning installation, shut down and lock out the compressor and relieve the system of all pressure.

Compressor condensate may enter the drain through either the ½" vertical fitting in the top or the 3/8" horizontal fitting in the bottom of the drain. The drain is delivered with both of these ports plugged. Remove the plug from the port to be used. Be sure the plug in the unused port is tight.

When tightening either the plug or piping in the ½" port in the top, use a 1" backup wrench on the fitting, which is provided for that purpose. Never use a wrench on the body of the drain to secure it while tightening inlet fittings or piping. Use only the 1" wrench flats provided on the fitting.

The purpose of the whisper vent fitting on the top is to relieve head pressure in the drain. It can be used one of two ways: (1) using ¼" tubing, connect the whisper vent to the top of the air header or the vessel being drained. Such a connection must be made at a point where the air pressure is equal to or slightly less than the pressure in the vessel being drained. This pressure must NEVER be higher than the vessel's pressure, as this would cause the condensate to

flow backwards into the vessel instead of draining from the vessel. (2) In cases where such a connection cannot be made, an alternate way to relieve head pressure is to open the whisper vent slightly (about 1/8 to ¼ turn) and allow the head pressure to be relieved to atmosphere.

Before operating the drain, be sure the whisper vent valve has been opened, regardless of which method of venting is employed.

Check the fittings and plug to be sure they are tight.

Startup the system only after these checks have been made.

Due to the light weight of the drain, it can be suspended in-line, supported by the system piping. **DRAIN MUST ALWAYS BE LEVEL** regardless of which mounting method is used.

THIS UNIT IS DESIGNED TO DELIVER OPTIMUM PERFORMANCE AT 100 PSIG. It will perform within specifications at pressures up to 200 PSIG. However, some systems at pressures of 120 to 200 PSIG may tend to discharge some air. The remedy is simple and will be provided at no charge.

CONTACT YOUR DISTRIBUTOR.

NOTE:

- 1.) A small sintered metal in-line filter is installed on the unit at the point where pilot air exits the top enroute to the actuator. A spare filter is included with the unit as well. Operation should be monitored frequently for the first few days or week. If actuation seems sluggish, accumulation of debris in the filter element is the probable cause. Remove and check the filter, replace filter if necessary and order replacement elements.