

Pneumatic No Air Loss Drain

PNLD 52 Detailed Specifications

Drain valve is designed to discharge condensate from a compressed air system without simultaneously discharging compressed air along with the condensate. It is designed for a maximum drain rate of 13.6 U.S. gallons per minute at an operating pressure of 100 PSIG. The operating pressure range is between 10 PSIG and 200 PSIG. The condensate inlet and outlet ports are 5/8" to assure free flow and minimize the possibility of fouling or plugging.

Head and base components are anodized for protection in chemically aggressive environments and for compatibility with compressor lubricants. Wet seals shall be Viton. Internal actuating components shall be non-metallic, chemically inert composite materials; fiberglass filled acetal, or fiberglass.

Triggering mechanism isolated from the system condensate and compressed air which is in the reservoir by mounting it in a hermetically sealed pilot air chamber in order to prevent fouling of the pilot air and triggering mechanism.

The discharge valve is pilot operated with clean dry air from an independent source whenever possible. Pilot air is to be 55 to 120 PSIG for optimum operation. The allowable pressure inside the drain reservoir is 10 PSIG to 200 PSIG. The two pressures are independent of each other.

The drain valve triggers discharges of condensate automatically, upon demand without pre-setting or any other manual intervention required. It activates upon the accumulation of 52 ounces in the reservoir which may occur every few minutes, or every few days and operation is unaffected by the frequency.

The drain valve includes a manual override or purge function to enable manually emptying the reservoir by forcing discharge of the contents. It also provides an operating test of pilot air filter, bypass valve, actuator and ball valve.

The allowable operating temperature is 35°F to 150°F. Dry weight is 13 lbs. Reservoir capacity is 52 ounces (trigger point). The single cycle discharge is 44 ounces at 100 PSIG.