

# **POSI-DRAIN**™

**For POSITIVE removal of oil, water, and scale from compressed air systems**



The POSI-DRAIN is designed to effectively drain water, oil, sludge, and scale from Filters, Air Receivers, Air Dryers, Separators, Aftercoolers, and other compressed air equipment where undesirable liquids may accumulate. The POSI-DRAIN is an excellent replacement for float and other types of solenoid drains which have a tendency to fail when sludge or scale accumulate.

The POSI-DRAIN's dual time feature not only makes installation easy, but the drain is useful over a wide range of applications without wasting air. In addition, the use of two lights for indicating power on and valve open status further simplifies installation and makes visual checks easy. The rugged noncorrosive Nema 4X enclosure with its mounting tabs provides versatility for many types of installation requirements.

## **AIR SYSTEM PRODUCTS, INC.**

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*"The Best in Condensate Drain Technology"*

## Floating Seal Design

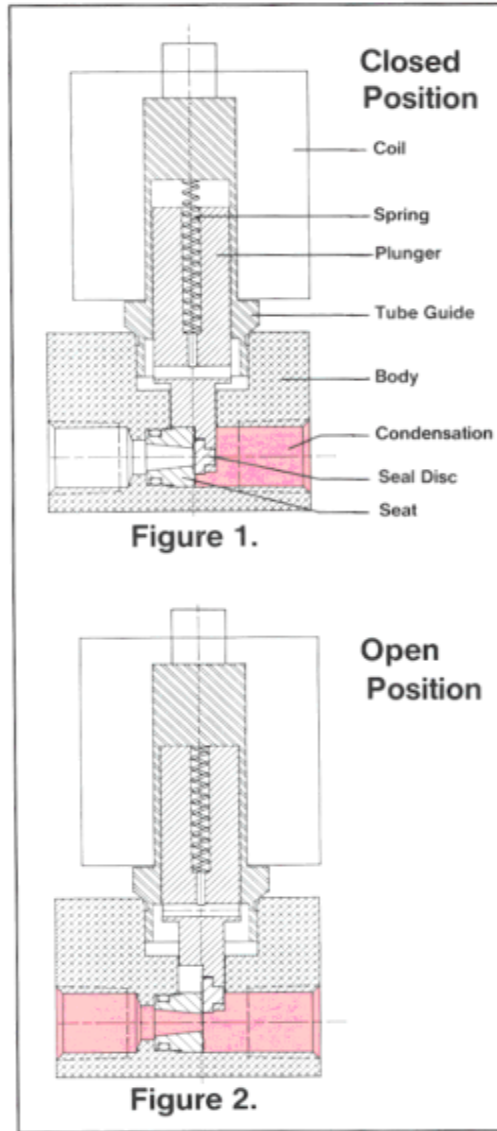
The POSI VALVE makes use of the floating seal principle which has proven to be the most reliable way of draining compressed air systems of the unwanted accumulations of water, oil, sludge, and scale.

## How It Works

As shown in Fig. 1, the valve uses differential pressure to press the floating seal against the downstream valve seat. Due to the close contact between the seal disc and valve seat, a lapping action occurs between them each time the valve's plunger moves up and down (cycles). This action maintains the flatness of both faces and actually improves the seal itself. Wear to these parts is minimal, even after millions of cycles.

## Self-Cleaning Action

The self-cleaning action provides reliable service in contaminated systems like compressed air lines. Each time the plunger moves up and down, the face of the valve seat is wiped clean by the seal disc. This makes the valve extremely dependable and desirable for use under adverse conditions because contaminants like those found in air systems are kept from being trapped in the seat.



## Straight Through Flow

When the solenoid is energized, the plunger and seal are lifted so that the flow of the condensation can flow straight through the orifice (see Fig. 2). It is the combination of the straight through flow and the self cleaning action of the seal that prevent the valve from clogging. Other types of solenoid valves force contamination like scale to travel in a dirt catching "S" shaped flow.

## Versatility

The POSI-DRAIN is available as a complete drain (PD7020) or each component, Timer Controller (PD7000) and POSI Valve (PV1), can be purchased separately. When bought separately, the Timer Controller can be mounted remote from the POSI VALVE. The Timer Controller can actuate up to four POSI VALVES at once. The Nema 4X design can be maintained even in the remote configuration.

## The Unbeatable Combination

When combining the POSI VALVE with our proven and versatile Nema 4X timer controller, the POSI-DRAIN is by far the most dependable and desired timed solenoid drain for draining compressed air lines.

## Features:

- Full adjustment of both the Drain Cycle (5 Sec.-50 min.) and the Valve Open period (1 -15 sec.)
- Two indicator lights for visual inspection of the
- Power On and the Valve Open period.
- The EXCLUSIVE 200 PSIG 1/4", Non-Clogging straight through flow POSI VALVE.
- Rugged NEMA 4X non corrosive enclosure (6"x3"x3").
- Multi-valve capabilities, the PD7000 can operate from one to four valves at once.
- Standard 110V, with options for other voltages.
- 8' grounded cord with plug.
- Mounting tabs for wall or panel mounting.
- Straight through flow POSI VALVE.
- Extremely easy installation and set up.

STOCK NO.	DESCRIPTION	WEIGHT
PD7000	Posi Timer Controller only	1 lb.
PD7020	Posi-Drain Single Valve w/ Timer	2 lbs.
PD7020-2	Posi-Drain Dual Valve w/ Timer	3 lbs.
PV1	Posi Valve only	1 lb.

Distributed by:

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