Ingersoll Rand
Industrial Technologies

This sector provides products, services and solutions to enhance the efficiency and productivity of our commercial, industrial and process customers. Our Ingersoll Rand brand products include tools, pumps, material and fluid handling systems, microturbines, air compressors and air system components.

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PNLD II

Pneumatic No-Loss Drain



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The newly enhanced PNLD II units are heavy-duty industrial drain valves that remove condensate without wasting compressed air.

The pneumatically-powered PNLD II requires no electricity, pre-settings, or manual intervention. Designed to complement all compressed air systems including compressors, filters, water separators, dryers, coolers and receivers, the PNLD II is easy to install and will not clog.

A unique air valve design uses magnetic force to ensure a positive opening and closing that prevents attraction of metal particulate. Then an innovative ball valve support-and-positioning system prevents side-loading which causes premature sealing failure around the valve stem. Finally, a rifle-drilled discharge porting ensures that scale and rust exits through a fully ported 1/2" (12.7mm) ball valve. The result? PNLD II saves enough compressed air to pay for itself in six months or less.

PNLD II 28 Part Numbers

CCN	Description	Designation	Control Air	Operating PSI
22890214	Trap, Condensate 28 oz	Low Pressure (LP)	40-130 psi (2.75 - 8.9 BAR)	300 psi (20.7 BAR)
22699706	Trap, Condensate 28 oz	Medium Pressure (MP)	55-130 psi (3.79 - 8.9 BAR)	300 psi (20.7 BAR)
22758643*	Trap, Condensate 28 oz	High Pressure (HP)	55-130 psi (3.79 - 8.9 BAR)	750 psi (51.7 BAR)

*The high-pressure PNLD II is fully stainless steel.

PNLD II 28 LP & MP Options

CCN	Description
38441192	High Level Alarm Kit 100 psi (6.89 BAR)
38441200	Heater Option
38441218	PNLD II 28 With all external nickel-plated parts
38441226	PNLD II 28 With SS Ball Valve



PNLD II 28

Features

- 28 oz (828.0 ML) discharge
- Handles compressed air systems from 100 to 30,000 cfm* (849.5 M^3)
- Fully pneumatic
- Zero air loss
- Low profile
- Stainless steel float
- Ideal for oil/water separators
- Non-clogging ball valve
- No strainers to clean
- Operates on demand
- Test button
- Often saves enough compressed air to self-amortize in six months or less

*All calculations at 70°F and 70% relative humidity.

Specifications

- Inlets:(2) 0.75" NPT
- Outlet: 0.5" NPT
- Power: Clean, dry compressed air, 55 to 130 psi (3.8-9 BAR)
- Pressure: 0 to 300 psi (0-20.6 BAR)
- Operating Temperature: 32° to 180°F (0°-82°C)
- Weight: 16 lbs. (7.25 Kg)
- Discharge: 28 ounces (828 ML) per cycle @ 100 psi (6.9 BAR)

Materials

- Reservoir: Composite
- Valve: Bronze with stainless steel ball and stem
- Float: Stainless steel
- Seat: Stainless steel
- Seal: Viton



PNLD II 12

Features

- 12 oz discharge (354.9 ML)
- Handles compressed air systems from 0 to 400 cfm* (11.3 M^3)
- Compact design
- No fittings to change
- 200 psi (14 BAR) maximum operating pressure
- Stainless steel float
- Metal internal components
- Fully pneumatic
- No wasted air
- Operates on demand
- Test button

Specifications

- Fluid Ports: Size 0.5" NPT
- Outlet: 0.38" NPT
- Discharge: 12 ounces (354.8 ML) per cycle @ 100 psi (6.8 BAR)

Operating Parameters

- Pressure: 0 to 200 psig (14 BAR)
- Allowable Fluid Temperature: 32°-180°F (0°-82°C)

Materials

- Reservoir: Composite
- Valve: Bronze with stainless steel ball and stem
- Float: Stainless steel
- Seat: Stainless steel
- Seal: Viton

PNLD II 12 Part Numbers

CCN	Description	Operating PSI
38439840	(PNLD II 12) Trap, Condensate 12 oz (354.8 ML)	200 psi (14 BAR)