

# CONDEC PIN8000/PIN8010

## Pneumatic HI Source Pressure Intensifier



Pump up your system and do calibrations utilizing the PIN8000 or PIN8010 pneumatic pressure intensifier! Both the PIN8000 and PIN8010 (19-inch rack-mount) operate using any clean dry air or gaseous nitrogen. Containing an automatic precision intensifying system, these models generate up to 10 times the input pressure. This easy-to-operate system provides fingertip control within the exclusive patented precision Orion 3A valve. By utilizing the soft-seal micro-metering valves for pressure adjustment and venting, in conjunction with the vernier, user gains finite control to obtain exact pressure readings. By properly setting the included Condec REG 1000 regulator, units under test are protected from permanent damage due to overpressure. PIN8000 eliminates the inconvenience and physical stress of hand pumps. It has two output (test) ports for connecting to a measuring device and virtually any electronic calibrator. For added convenience, the removable cover allows PIN8000 to be positioned at different angles for easy operation in tight spaces. Monitoring has never been easier with three gauges that account for regulated pressure, accumulated pressure, and output pressure. These units are completely equipped with quick-disconnect fittings and hoses for rapid input and output pressure.

These pressure intensifying systems were designed for custom use. The compact PIN8000 incorporates a portable configuration for on-the-go operation. The rugged PIN8010 is a rack-mount model, ideal for frequent in-house use.

Using an adaptor assembly, to combine one of the above models with a DPDG digital gauge or Condec 3030 hand-held calibrator, will provide a means of attaining accurate NIST traceable readings and ultra-fine "dial in" of target value.

## PIN8000/PIN8010

## Specifications

### Temperature range:

Operating: 40°F to 140°F (4°C to 60°C)  
Storage: 0°F to 185°F (-17°C to 85°C)  
Relative humidity: 95%, non-condensing

### Pressure Media:

Clean dry gaseous nitrogen or clean dry air

### Regulated Pressure Gauge:

Size: Two and one half-inch diameter  
Range: 0-1500 psi

### Accumulator and Output Pressure Gauges:

Size: Two and one half-inch diameter  
Range: 0-15,000 psi

### Control valves :

Type: Micro-metering with positive shut off, adjustable stop and replaceable seat, non-destructible  
Vernier mechanical rotation : 16 turns, nominal  
Adjustable sensitivity : 0.0005 psi, minimum  
Vernier torque: Finger tip adjust to 10,000 psi  
Material: 300 series stainless steel outer body

### Internal piping:

Tubing: 1/4 in. O.D. and 1/8 in. O.D. 300 series stainless steel, seamless  
Couplings: 300 series stainless steel Swagelok®

### Output test ports:

Style: Quick-disconnect type  
Pressure rating: 10,000 psig minimum, connected or disconnected  
Quantity supplied: 2 output Quick Disconnects (one, p/o output pressure hose mentioned below)

### Pressure Hoses:

Quantity supplied: 2; one input and one output  
Length: 4 ft., nominal each hose

### Booster Pump solenoid valve :

Type: Three-way, normally closed, electronically controlled  
Pressure rating : 1500 psig

### Power Requirements:

115 VAC, 50 Hz, 10 watts  
Note: 220 VAC also available.

### Input Pressure Condec REG 1000

#### Regulator :

Pressure rating: 3000 psi maximum  
Output pressure range: 0-1000 psi  
Construction: Self-relieving, single stage regulator

#### External housing:

PIN8000: Deep drawn aluminum case with cover and handles  
PIN8010: Sheet aluminum enclosure

#### External Finish:

PIN8000: Grey polyurethane baked-enamel paint, textured finish  
PIN8010: Dark Tan polyurethane baked-enamel paint, textured finish

#### Weight:

Approximately 40 lb (18.1 kg), nominal including all fitting, hoses and power cord

#### PIN8000 overall Dimensions

A = 11 in. (279.40 mm) C = 11.5 in. (292.10 mm)  
B = 18.0 in. (457.20 mm)

