



**PACKAGING SYSTEMS**

International Incorporated

## Model 780 Air Packer

Gross Weight Air Packer with Programmable Controller

### UP to 40% Improvement In weight Accuracy

- **Weight Accuracy** up to +/- 2 to 4 ounces depending on product characteristics.
- **Bulk/ Dribble** 2-stage filling assures precise weight control.
- **Allen Bradley PLC Controller** for fast and accurate weighments with reliability and easy maintenance.
- **Packaging Speed** up to six 50 pound bags per minute.
- **Dual Load Cell** weight sensing for precise accuracy and stability.

### Digital Display

- **Bag Weight** displayed with large, digital numerals and bar graph.
- **Total Weight Bagged** indicates weight of product bagged during a shift.
- **Bag Count** displayed number of bags packaged during a shift
- **Check Weight** compares the bag weight against preset limits. Off-weight bags may be identified by alarm and removed.
- **Pounds/ Kilograms** weight measure may be selected by a pushbutton.
- **Remote Printer** option permits printout of information for management control.

### Reliability

- **Sturdy Construction:** Built of 1-1/2" x 3" structural tube steel frame, with solid front plate. Reinforced welded design.
- **Security lockout** prohibits unauthorized changes to controller settings.
- **Broken Bag Detection:** Load cells detect insufficient increase in weight. Controller closes fill tube in case of broken bag.
- **Battery Back-up** retains operator's instructions in memory, in the event of short-term power outages.



### Easy Operation & Maintenance

- **Simple to Operate PanelView** touchscreen provides digital and graphic displays.
- **Pushbutton Controls** for ease in setting weights, calibration and operation.
- **Self-Diagnostics** alerts the operator to the need for corrective action and/ or the operational status of the packer. Instruction is displayed on the control screen.
- **Clean Operation** is provided by a dust collection shroud and an optional inflatable bag sealer on the filling tube.

## Specifications

**Rate:** Up to six bags per minute depending upon bulk density, particle size and flow characteristics of product.

**Accuracy:** +/- 2 to 4 ounces (2 sigma) on most products. (Typical 50 pound bags).

**Valve Size:** All standard size valves.

**Bag Size:** 32" length standard. Longer bags will require a sub-base.

**Electrical:** 115V, 1ph, 60 Hz (Packer Controls)  
480V, 3ph, 60 Hz (Blower Motor)

**Plate Work:** Product contact surfaces may be mild steel, aluminum or 304/ 316 stainless steel.

**Pneumatics:** 1.5 cu. Ft. of free air per cycle compressed to 80 psi.

**Paint:** Standard machine enamel/ epoxy.

**Gasketing:** White Neoprene.

**Shipping Weight:** 1200 lbs.  
(545 kg.) typical.

**Materials:** Dry powders, Granules, Pellets or Flakes.

## Option and Accessories

**Sub Base Assembly:** To raise the filling tube height for discharge onto a takeaway conveyor or to allow for a longer bag.

**10) Low-Pressure Blower Assembly:** Required for product fluidization and chamber pressurization. One blower assembly is required for each air packer.



Low Pressure Blower Assembly

## Features

**1) Transition Hopper:** To provide proper transition between product hopper and packer inlet. (OPTION)

**2) Inlet Feed Gate Butterfly Valve:** This butterfly valve is open and closed by an air cylinder and is controlled by timers.

**3) Separate Exhaust System:** Is to exhaust the pressure that remains in the air chamber after the filling cycle is complete.

**4) Disseminator Air Controls:** Air supplied by a low pressure blower and is used to fluidize the material in the chamber and to provide pressurized air to force the material out of the chamber into the bag.

**5) Pad Air Controls:** Is supplied by a low pressure blower and is used to fluidize the material in the bottom of the chamber and to provide a fluid bed (air slide effect) for material to be pushed out of the chamber into the bag.

**6) Bulk/ Dribble Pinch Tube:** Assembly consists of two cylinders to control bulk feed and dribble feed when material is flowing into the bag and also to stop flow.

**7) Bag Clamp:** The bag is clamped when the cylinder extends and begins the filling cycle.

**Automatic Start Switch:** Starts the fill cycle upon placement of the bag on the fill tube. (OPTION)

**8) Tube Cleanout Assembly:** A timed blast of air inside the fill tube to blow residual product into the bag. (Not suitable for some product). (OPTION)

**Spacer Chamber:** Increase the size of the pressure chamber for lighter density products. (OPTION)

**9) Powered Bag Chair:** Automatically discharges the fill bag onto a takeaway conveyor. (OPTION)

**Operator's Seat:** Allows an operator to be seated while manually placing empty bags onto multiple packer filling tubes. (OPTION)

**Because of Packaging Systems International's continuous program of improvements, specifications are subject to change without notice.**

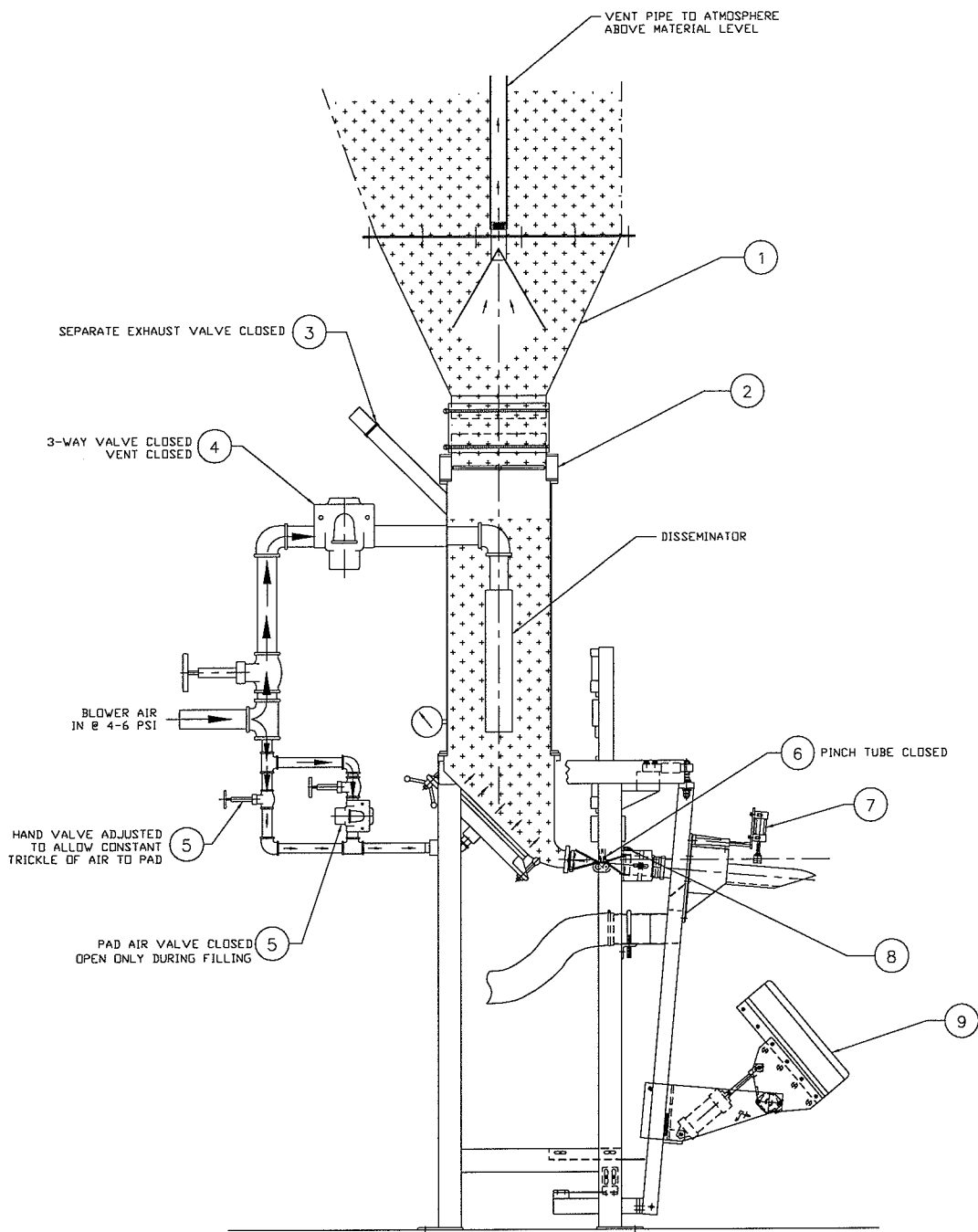


FIGURE 1  
STATIC CONDITION

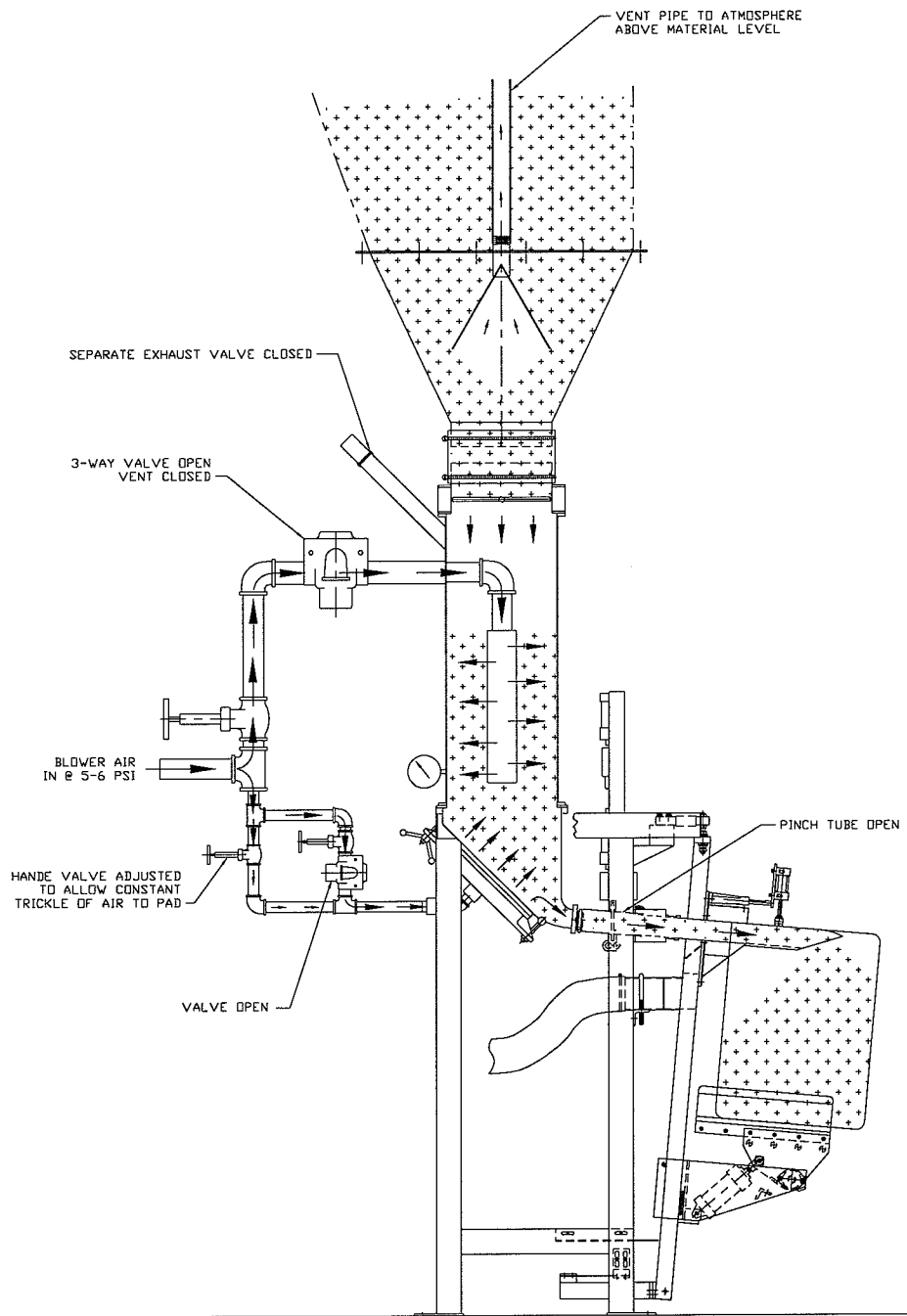


FIGURE 2  
BAG FILLING CONDITION

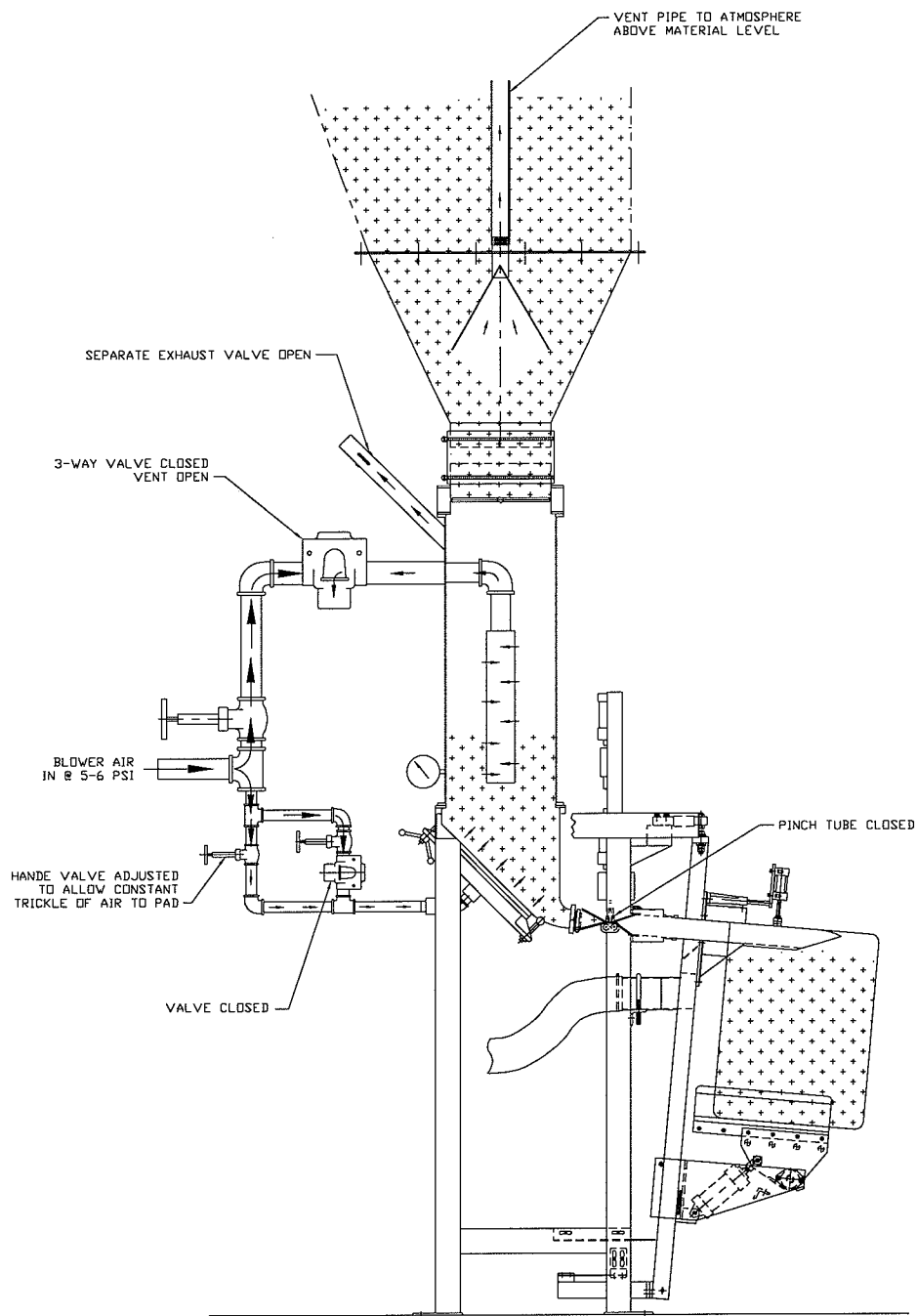


FIGURE 3  
BAG RESTING CONDITION

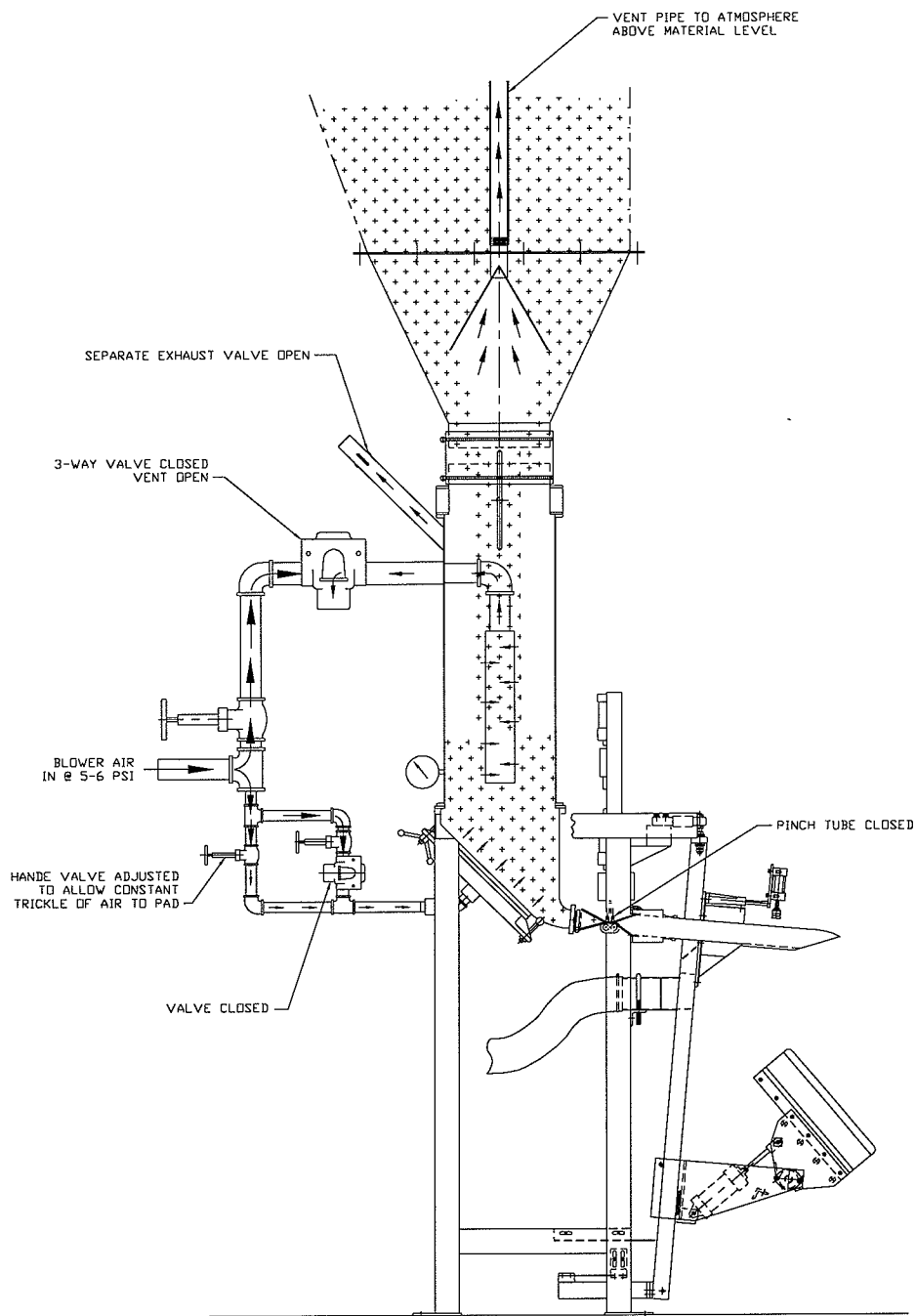


FIGURE 4  
 BAG RELEASE AND PACKER  
 RECHARGING CONDITION