



PACKAGING SYSTEMS

International Incorporated

AUGER MAX PACKER MODEL 285

The Latest in Mettler Toledo Technology Adds Simplicity & Easy Maintenance to High Accuracy Auger Packers

The Auger Max Packer Model 285 utilizes a Mettler Toledo Weighing Terminal for easy operation. The Mettler Toledo Model 560 Weighing Terminal comes with 15 programmable soft keys that provide one press access that will help avoid confusion and errors.

Our electronic auger packers incorporate our “non-influencing” spout to maintain accurate weights of +/- 2-4 ounces at speeds of up to 6 bags per minute. It consists of a spout within a spout to isolate the product stream from the outer spout that is mounted to Packaging Systems’ dual load cell technology.

EASY OPERATION

Operators and Managers alike will appreciate the Mettler Toledo Weighing Terminal, the large, easy to read displays.

In addition to displaying, the operator can scroll to indicate weight, total bags filled, total weight packaged, the number of bags above or below the target weight.

Alternately, the operator can use the message screen to guide him through set-up, calibration and option selection at each step, the system prompts the operator.

RELIABILITY

With many thousands of Auger Max Packers now in service, Packaging Systems International has proven the reliability and weight accuracy of the Auger Max line. The model 285 adds the familiar Mettler Toledo controller to this standard of reliability.

Gross Weight Auger Packer With Programmable Controller



Standard Features

Message Screen – Permits choice of: bag count totals; weight packaged totals; set-up mode; calibration mode or option selection. The Mettler Toledo controller's large graphic display provides visual cues for operator.

Program Quick Select – Commits a description of 25 different operating set-ups to memory. Operator may switch to an individual set-up simply by pushing a button. Items which may be placed in the memory include: target weight; dribble weight; compensation limits; tare on/off; check weight on/off; stop on alarm; zero tracking on/off; product settler on/off and automatic bag chair tilt on/off.

Settler Control – If the scale is equipped with a settler, this on/off control will operate the settler during the weigh cycle. Variable setting sequences are also included.

Pounds/ Kilograms – Allows choice of either pounds or kilograms by pushbutton.

Diagnostics Alarm – Alerts operator to the need for corrective action and/or operational status of the packer. Instructions are displayed on the message screen.

Safety Lockout – The emergency stop switch may be locked in the off position, or the power-disconnect may be locked out. Either disables the packer.

Variable Frequency Drives – Auger Max 285 Packer include FVD's to allow fine tuning of bulk and dribble auger speeds to maximize fill time and accuracy.

NEMA Standards – The standard control cabinet meets NEMA 12 and NEMA 4 electrical standards.

Check Weight – Notes the weight of the last bag filled and compares this weight to the preset limits, Off-weight bags may be identified by an alarm and removed.

Printer – The printer option allows weights and counts to be printed remotely.

Reversing Auger – Forward and reversing feed auger assures maximum weight accuracy and reduces spillage.

Choice of Spouts - Wide choice of spout sizes – 4 1/2" to 7" valve bags (112.5 to 177.8mm).

Choice of Augers - Large variety of delivery augers to best suit the materials packed.

Choice of Hoppers - A variety of hoppers for versatility of application. Simple gravity hoppers, single or double agitator hoppers.

Ready to Run – Packers are completely wired and ready for factory power connections.

Durable Construction - Construction with welded steel and cast aluminum components, 304 or 316 stainless steel, food grade and polished surfaces available.

Flexibility - Quick- change attachments for open mouth bag and dust-free drum filling.

Technical Specifications

(Typical applications)

Material: Dry powders, Granules, Pellets or Flakes

Maximum Container Size: 37" length (939.8mm) or 36" length (914.4mm) with PSI Bag Settler.

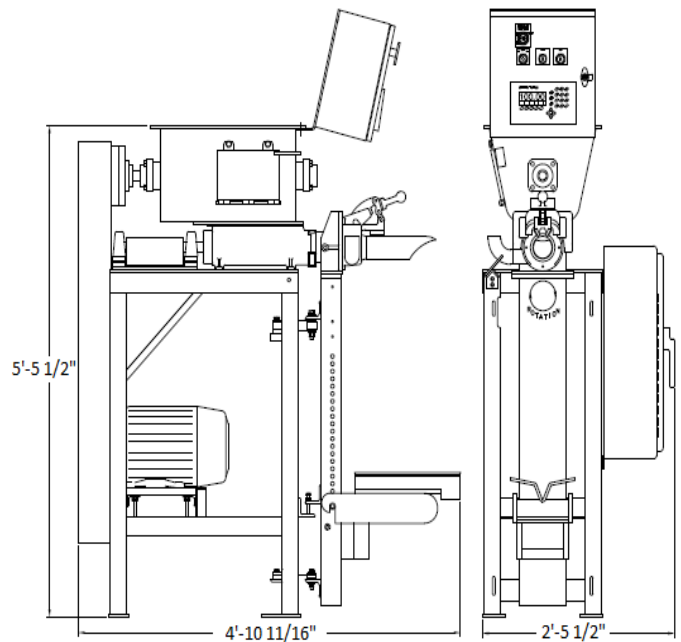
Bag Valve Size: 4 1/2" to 7" (112.5 to 177.8mm)

Electrical System: Available in 380, 230/460 and 575 volt. Nema 12, 4 and hazardous locations

Shipping Weight: 1,100 lbs. or 550 kgs

Engineered layout drawings to fit your application.

This packer is custom engineered to the job and the plant layout by engineers with years of experience in bag and packaging materials handling.



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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)

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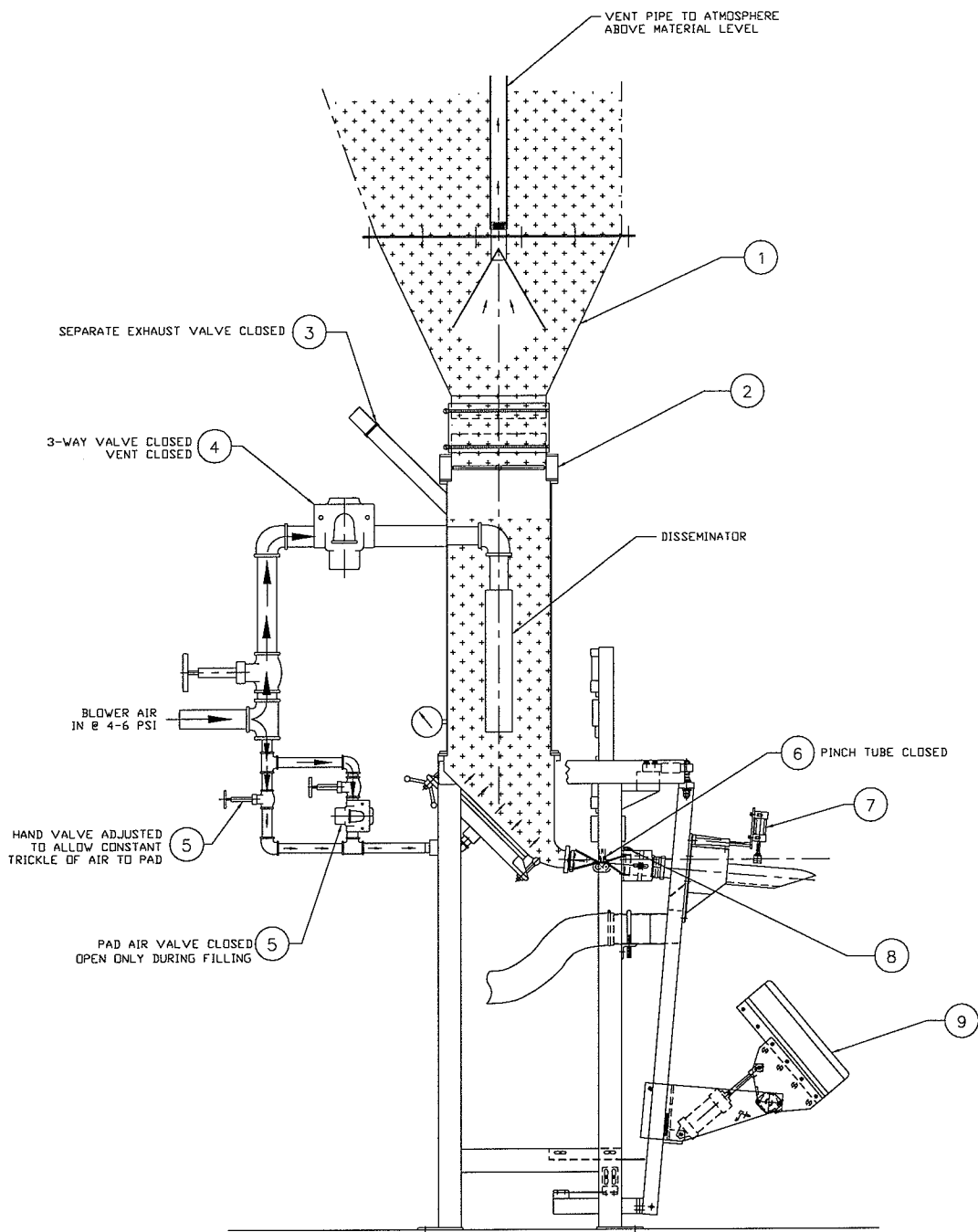


FIGURE 1
STATIC CONDITION

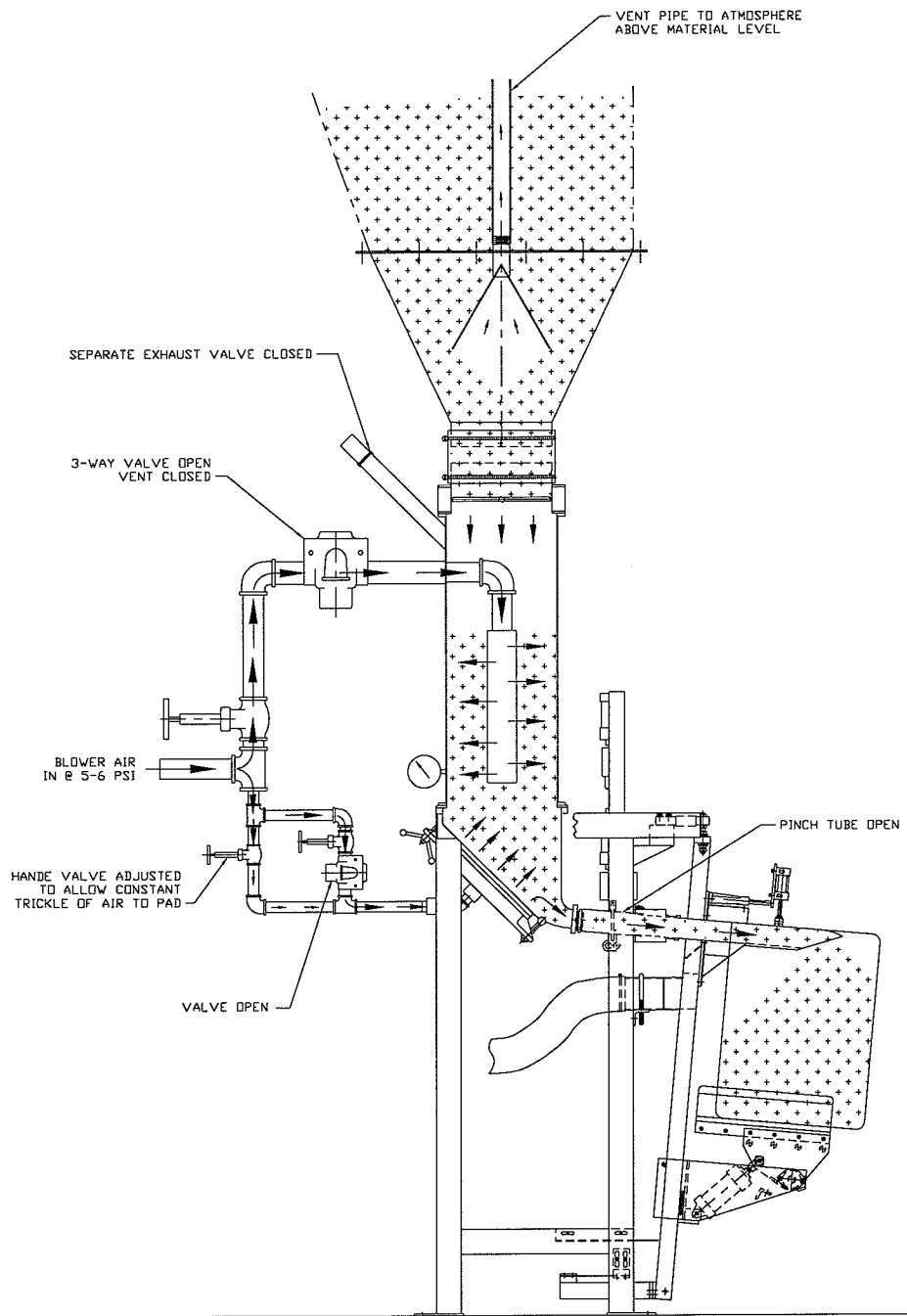


FIGURE 2
BAG FILLING CONDITION

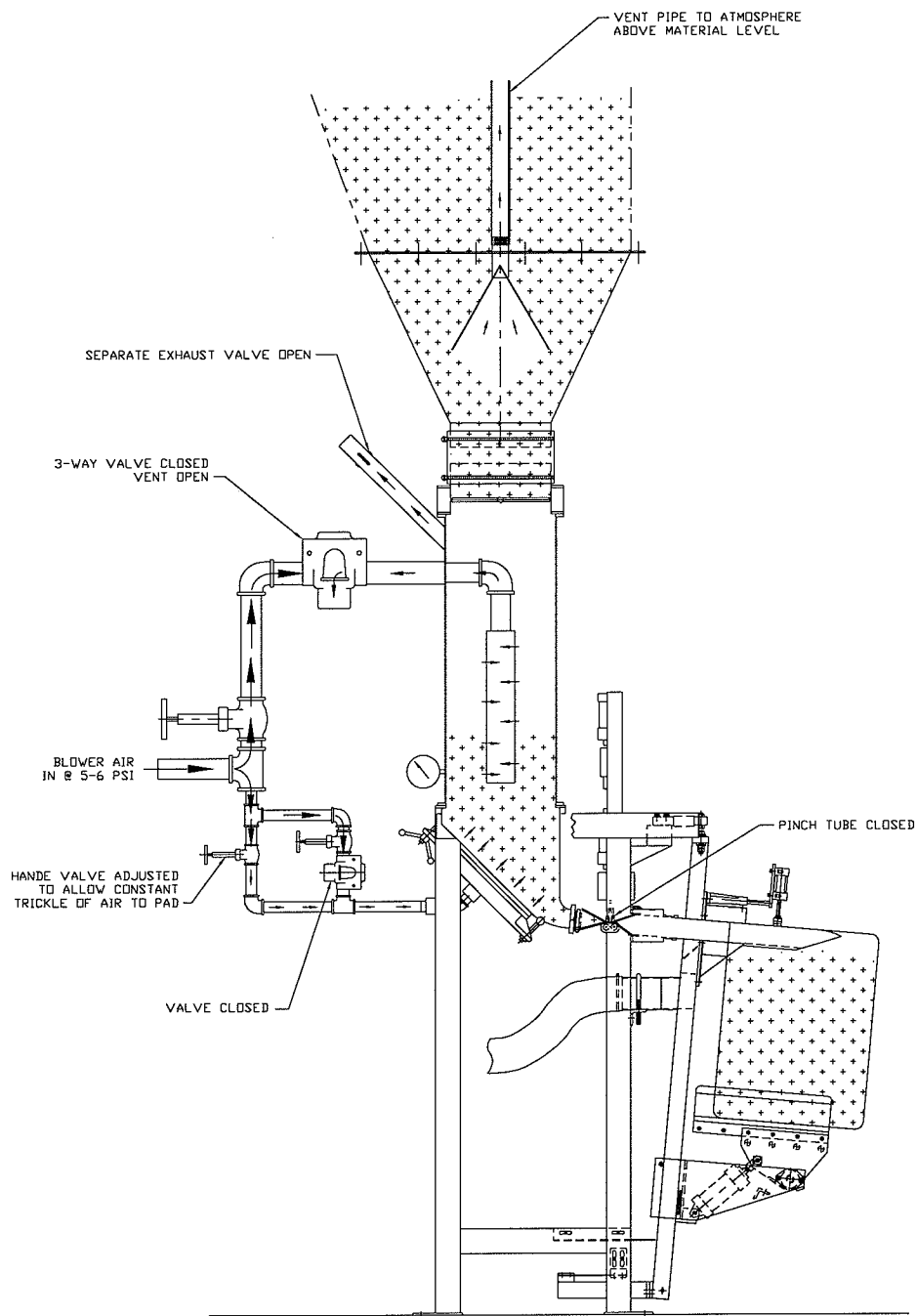


FIGURE 3
BAG RESTING CONDITION

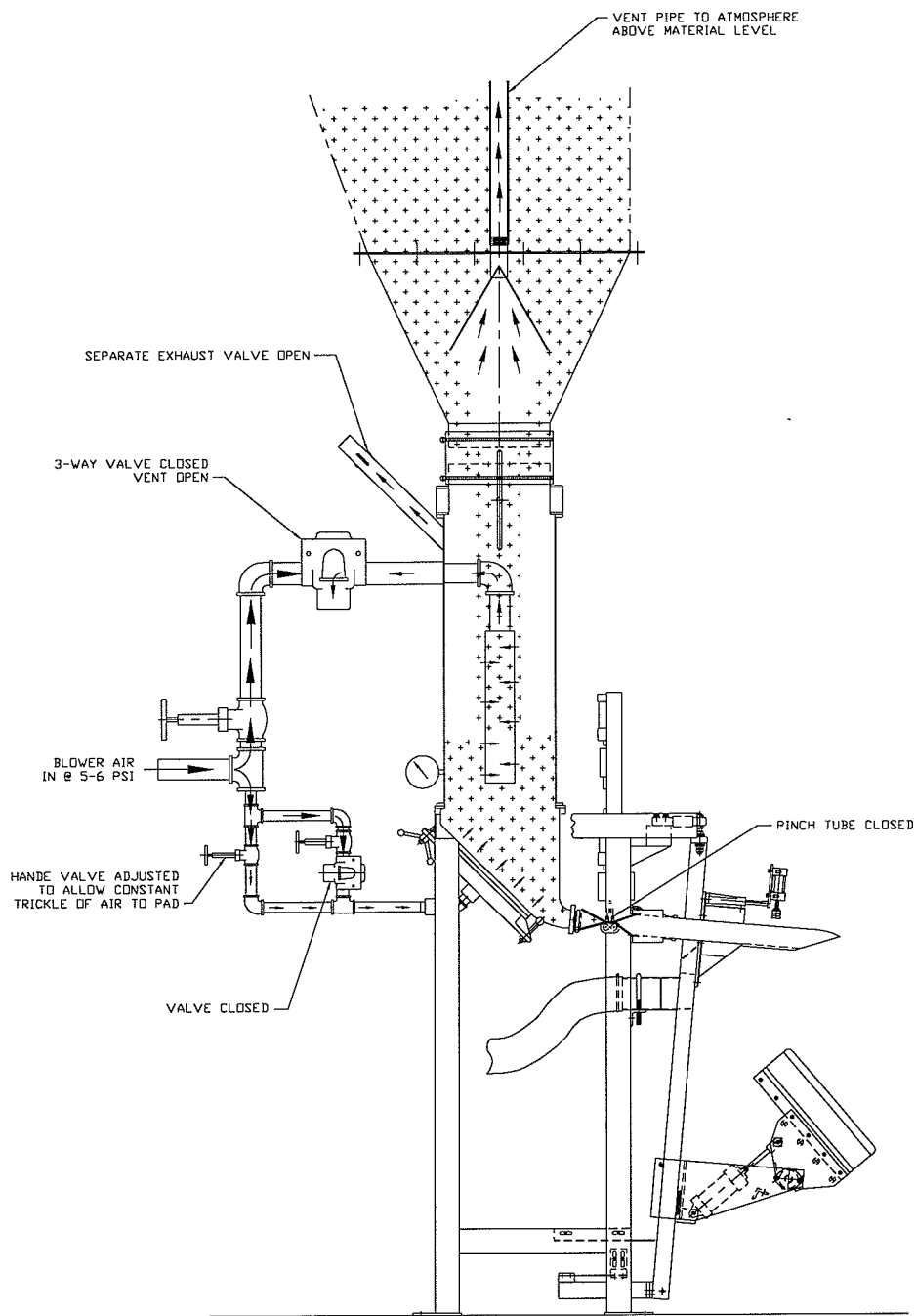


FIGURE 4
 BAG RELEASE AND PACKER
 RECHARGING CONDITION