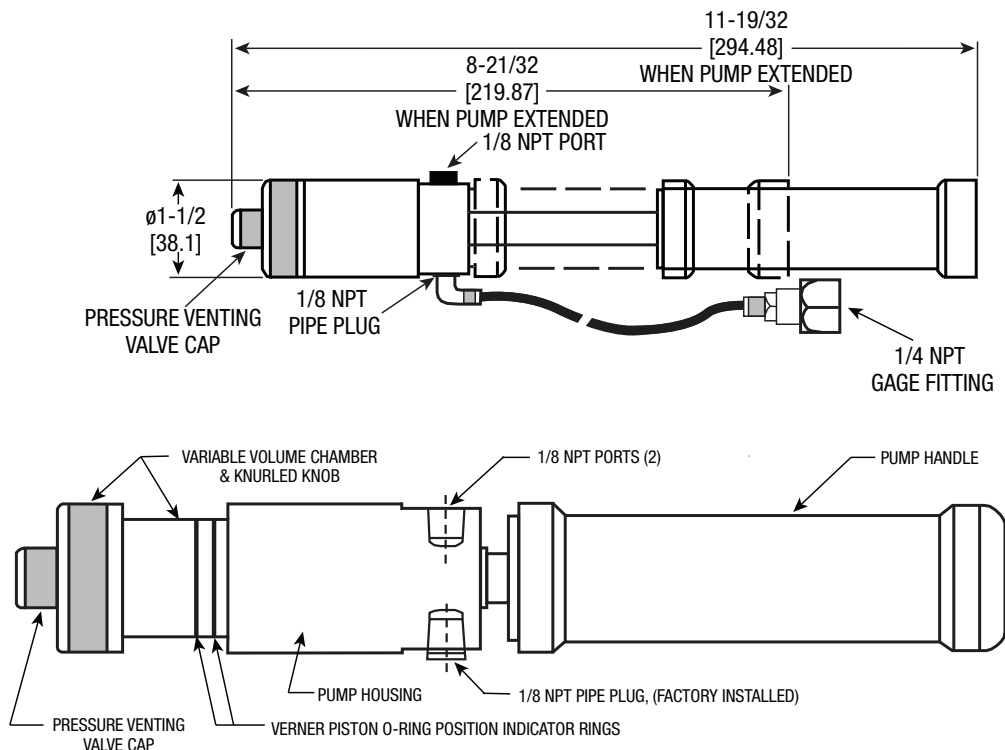


**MODEL VP –
VACUUM HAND PUMP
OPERATING INSTRUCTIONS**



STANDARD OPERATION

The VP Vacuum Calibration Hand Pump features a Delrin® plastic handle that prevents body heat transfer from interfering with readings, as well as an oversized check valve for smooth operation. The dual o-rings on all pistons insure zero leakage.

SPECIFICATIONS

Output Ranges: 0-28" Hg

Gauge Connection: 1/8" NPT female

Process Connection: 1/8" NPT female

Materials: Delrin® plastic handle, nitrile o-rings

Weight: 1.5 lbs. (0.68 kg)

POINTS TO REMEMBER

- Insure all gauges and instruments to be calibrated are disconnected from process pressures before connecting the pump. The maximum pump design pressure for the VP is 150 psig. Connection to a pressure source greater than 150 psig could cause serious injury to person or damage pump.
- The fittings and tubing on the VP are unique. To reattach tubing to any fitting, heat the tubing end with a heat gun or boiling water to soften the material. Then put the tubing

onto the fitting with a twisting motion.

- For best results, operate either pump with the vernier turned to the middle position.

OPERATION

1. Prior to operation, turn the vernier to the middle position.
2. Connect the hose to the gauge or calibrator.
3. Pull the handle out and pull back in to increase pressure or vacuum in the pump. Repeat as necessary to achieve desired pressure or vacuum.
4. Slight pressure adjustments can be made by holding the housing and turning the vernier knob.
5. To relieve pressure, turn the pressure relief valve cap clockwise. Do not over-tighten.

MAINTENANCE

No routine maintenance is required. A periodic check of the system calibration is recommended, however. While the VP is field serviceable it is recommended it be returned to Ashcroft if repair is needed. Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization (RGA) number before shipping.

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WARRANTY / DISCLAIMER

Ashcroft, Inc warrants this unit to be free of defects in materials and workmanship for a period of twenty-five months from the date of purchase. Ashcroft's warranty adds an additional one month to the normal twenty-four month product warranty to cover handling and shipping time. This insures that all customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. Ashcroft's Customer Service Department will issue a return goods authorization (RGA) number immediately upon phone or written request. If the product is found to be defective or upon examination of the Repair Department, the product will be repaired or replaced at no charge. This warranty includes damages that may have occurred in the regular activities that the pump is designed for (including accidental dropping of the product, as it is designed to withstand considerable damaged). Unauthorized repair attempts or modification of the product may result in voiding of the warranty, and should be avoided.

RETURN REQUESTS / INQUIRIES

Direct all warranty and repair requests/inquiries to the Ashcroft Customer Service Department. **BEFORE RETURNING ANY PRODUCT(S) TO ASHCROFT, PURCHASER MUST OBTAIN A RETURN GOODS AUTHORIZATION (RGA) NUMBER FROM ASHCROFT'S CUSTOMER SERVICE DEPARTMENT IN ORDER TO AVOID PROCESSING DELAYS.** The assigned RGA number should be marked on the outside of the package and on any correspondence.

The purchaser is responsible for any shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

WARRANTY RETURNS

Please have the following information **BEFORE** contacting Ashcroft.

1. Purchase Order number under which the product was **PURCHASED**
2. Model and serial number of the product under warranty; and
3. Repair instructions and/or specific problems relative to the product.

NON-WARRANTY REPAIRS

Have the following information available **BEFORE** contacting Ashcroft for current repair charges.

1. Purchase Order number to cover the **COST** of the repair.
2. Model and serial number of the product and
3. Repair instructions and/or specific problems relative to the product.

CONTACT INFORMATION

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