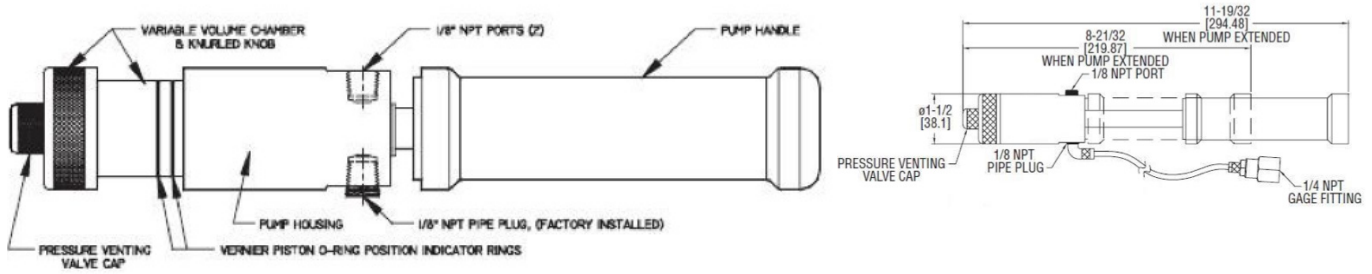




## MP-100KT Calibration Pump Operating Instructions



The **MP-100KT Calibration 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

<b>Range:</b>	0-28" Hg (MP-V)   0-100 psi (MP-P)
<b>Connections:</b>	Two 1/8" NPT female ports (gauge & Process)(one removable plug, hose and 1/4" NPT female included) 1/4" BSP (1/4" NPT adapter included)
<b>Materials:</b>	Delrin® plastic handle, nitrile o-rings
<b>Weight:</b>	1.5 lbs (0.68 kg)

### FEATURES

- No-needle valves, "MASH-Proof" vent valve
- Unique, easy-to-use hose and fittings; no snake to fight
- Rugged Delrin® and anodized aluminum construction
- Dual O-rings on all pistons insure zero leakage, a solid feel and very smooth operation
- Compact (9" x 1-1/2") and lightweight
- Oversized check valves for smooth controlled operation
- Extra-large vernier adjustment range
- Pressure venting can be done in increments of 0.1" H2O

### POINTS TO REMEMBER

#### NOTICE

- Ensure that all gauges and instruments to be calibrated are disconnected from process pressures prior to connecting the pump.
- The fittings and tubing on the MP-100KT are unique. To re-attach 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.

## **⚠ WARNING**

- The maximum pump design pressure for the MP-100KT is 150 psig. Connection to a pressure source greater than 150 psig could cause serious injury to person or damage to the pump.

## **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 push 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 system calibration is recommended, however. While the MP-100KT is field serviceable it is recommended it be returned to Meriam Process Technologies 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 materials authorization (RMA) number before shipping.

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## **WARRANTY/DISCLAIMER**

The MP-100KT is warranted to be free of defects in materials and workmanship for a period of twenty-five months from date of purchase.

If the unit malfunctions, it must be returned to the factory for evaluation. The Meriam Customer Service Department will issue a return material authorization (RMA) number immediately upon phone or written request. If the product is found to be defective or upon examination by the Repair Department, the product will be repaired or replaced at no charge. This warranty also includes damage 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 damage). 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 Meriam Process Technologies Customer Service Department. **BEFORE RETURNING ANY PRODUCT(S) TO Meriam Process Technologies, PURCHASER MUST OBTAIN A RETURN MATERIAL AUTHORIZATION (RMA) NUMBER FROM MERIAM PROCESS TECHNOLOGIES CUSTOMER SERVICE DEPARTMENT IN ORDER TO AVOID PROCESSING DELAYS.** The assigned RMA number should then be marked on the outside of the return package and on any correspondence.

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

FOR WARRANTY RETURNS, please have the following information available BEFORE contacting Meriam Process Technologies:

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.

FOR NON-WARRANTY REPAIRS, have the following information available BEFORE contacting Meriam Process Technologies 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.

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## **CONTACT INFORMATION**



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