



# Pneumatic and Hydraulic Hand Pumps

## Features:

- Generate both pressure and vacuum
- Generate -27 "Hg to 100 or 600 PSI, model-dependent
- Generate hydraulic pressure from 0 to 10,000 psi
- Completely isolated vernier prevents heat transfer from hand
- Precision valve for bleed control
- Pneumatic pumps include user-friendly, field serviceable, and replaceable check valves
- Ergonomic design makes it easy to pump, even at high pressure



MECP500  
Pneumatic Pressure Test Pump

MECP500  
Pneumatic Pump Kit  
(shown with optional BetaGauge PI  
Digital Test Gauge)



## Description:

The MECP Series of pneumatic and hydraulic test pumps are high performance hand operated pumps that allow the user to generate both pressure and vacuum for precise testing of pressure instrumentation including transmitters, pressure switches, etc.

The pneumatic pumps allow pressures in excess of 100 or 500 PSI (model-dependent) to be generated with just a few strokes of the pump. By changing the switching valve to vacuum, a range of -27" Hg is available.

The MECP10K Hydraulic Pressure Test Pump works with a variety of hydraulic fluids or even water to

easily generate test pressures up to 10,000 PSI (700 Bar). It uses a unique fully adjustable stroke control to allow for fast priming or filling of test systems, and then switching as needed to a smaller stroke for easier pumping at high pressure.

The output pressure of all pumps can be fine tuned using the vernier control. A precision needle valve allows controlled venting for exacting pressure calibration requirements.

All pumps features NPT connections for ease of use. See specifications for details.

In addition to the bare pump, all pump models are offered in kit form with a hard sided carrying case and a flexible connection hose with appropriate fittings.

## Specifications (0 °C to +50 °C, unless otherwise noted)

### Accuracy

### Model

Parameter	MECP100	MECP500	MECP10K
Operating Pressure Range	-12 to 100 PSI	-12 to 600 PSI	0 to 10,000 PSI
Maximum Working Pressure	150 PSI	750 PSI	10,000 PSI
Connection	1, 1/8" FNPT port	1, 1/4" FNPT (top) 1, 1/8" FNPT (side)	2, 1/4" FNPT (top and side) 1, 1/8th " FNPT Port (for use with Press. Relief Valve Only)
Compatibility	air	air	most hydraulic fluids and oils and water



**MECP100**  
Pneumatic Pressure Test Pump



**MECP10K Hydraulic Pump Kit**  
(shown with optional BetaGauge PI Digital Test Gauge)



**MECP100 Pneumatic Pump Kit**  
(shown with optional BetaGauge 321 Pressure Calibrator)



**MECP10K**  
Hydraulic Pressure Test Pump

# MARTEL ELECTRONICS

**Martel Electronics Corporation**  
Londonderry, NH; Tel: 800-821-0023

Email: [sales@martelcalibrators.com](mailto:sales@martelcalibrators.com) Web: [www.martelcalibrators.com](http://www.martelcalibrators.com)