



**MECP100**

## Pneumatic & Hydraulic Hand Pumps

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 600 PSI (model-dependent) to be generated with just a few strokes of the pump. By changing the switching valve to vacuum, a range of -24" Hg is available.

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.



**MECP500**

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.

### New improved pump designs have allowed for...

- The MECP10K Hydraulic Pump will work with Hydraulic Oil up to 30 Weight. It's the only one in the industry that can prime oils of this weight.
- The above improvement also allows for much easier priming of the MECP10K
- More volume per stroke on the MECP500 yet still easy to operate at high pressure.
- Improved vent control on the MECP500 allows precise vent control even down at low inches of H<sub>2</sub>O.



**MECP10K**

### General Features

- Generate both pressure and vacuum
- Generate -24 "Hg to 100 or 600 PSI, model-dependent
- Generate hydraulic pressure from 0 to 10,000 psi
- Thermally isolated vernier prevents heat transfer from hand
- Precision release 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
- Pump Rebuild Kits Available, See our video at our website [www.martelcalibrators.com](http://www.martelcalibrators.com)

Note, vacuum capability is dependent upon local barometric pressure. Vacuum can be generated to approximately 80% of local barometric pressure.

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

Model	MECP100	MECP500	MECP10K
Operating Pressure Range	-12 to 100 PSI (-0.8 to 7 bar)	-12 to 600 PSI (-0.8 to 40 bar)	0 to 10,000PSI (0 to 700 bar)
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, 1/8" FNPT Port (for use with Press. Relief Valve Part # 1010050 Only)
Compatibility	air	air	most hydraulic fluids and oils and water. Hydraulic oil up to 30 weight

### MECP100 Kit



### MECP500 Kit



Pump Kits shown with optional BetaGauge PI PRO Digital Test Gauge

### MECP10K Kit



Shown with optional BetaGauge calibrator

## MECP-Pumps Ordering Information

Description	Media	Pump Only	Kit
MECP100, -12...100 psi/-0.8...7 bar	Air	80297	1919549
MECP500, -12...500 psi/-0.8...350 bar	Air	80257	1919290
MECP10K, 0...10,000 psi/0...700 bar	Water/Oil	80290	1919406
<b>All kits above include</b> <ul style="list-style-type: none"> <li>• Pump</li> <li>• Test hose (range appropriate)</li> <li>• Fittings (range appropriate)</li> <li>• User guide</li> <li>• Hard sided carrying case with custom fit foam</li> </ul>			