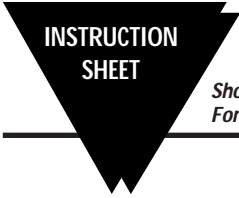


# PPA100

## PNEUMATIC HAND PUMP



M-4367/0906

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The OMEGA PPA100 Hand Pump is designed to be a simple to use pressure and vacuum source for calibrating process control instrumentation. Combined with one of our pressure calibrators, the PPA100 makes a complete Pressure/ Vacuum Calibration System.

### Operation

The drawing shows the operation of the controls on the PPA100. The pump is designed for use with ambient air only.

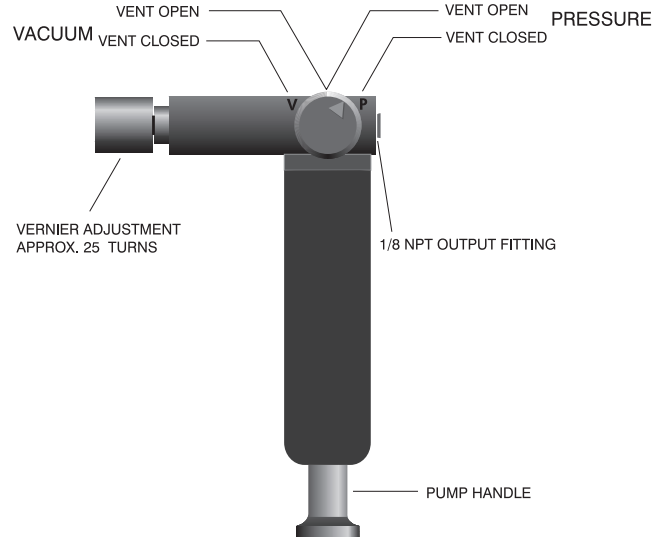
### Pump Valve Assembly Cleaning Instructions

Occasionally, the PPA100 may not work properly due to dirt or other contamination of the internal valve assembly. Use the following procedure for cleaning the valve assembly.

1. Using a small screwdriver, remove the 2 valve retention caps located on opposite sides of the pump below the pressure/vacuum switch.
2. After the caps have been removed, gently remove the spring and o-ring assembly.
3. Set aside the valve assemblies in a safe area and clean out the valve body using a cotton swab soaked in IPA (isopropyl alcohol).

4. Repeat the process several times using a new cotton swab each time until there is no remaining evidence of contamination or dirt.
5. Operate the pump handles several times and recheck for contamination.
6. Clean the o-ring assembly and the o-ring on the retention caps with IPA and inspect the o-rings closely for any damage or excessive wear. Replacements are included in the repair kit, if needed.
7. Inspect the springs for wear or loss of tension. They should be approximately 8.6 mm long in the relaxed state. If shorter, they may not provide sufficient sealing tension. Replace if needed.

8. Once all parts have been cleaned and inspected, reinstall the o-ring and spring assembly into the valve body.
9. Reinstall the retention caps and gently tighten each cap.
10. Seal the output port and operate the pump to at least 50% of capacity.
11. Release the pressure and repeat several times to ensure that the o-rings seat properly.





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3. Repair instructions and/or specific problems relative to the product.

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