P-TEST series is our electro pneumatic equipment for air pressure decay leak and obstruction testing of elastic or rigid medical devices such as blood lines, infusion and transfusion sets, bags, filters, oxygeneators and many other disposable products. Operational conditions can be programmed in a wide range of pressures and times. The P-TEST technical features, along with the new operative interface, makes its use even simpler. Not only it can be used for validation and qualification purposes on QA and R&d Departments, but mainly in production lines for routine controls of finished products.

P-TEST series performs 3 different test types:

- **Leak Test**  
  (Pressure Decay / Leak Rate)

- **Single Obstruction Test**  
  (Pressure Monitor)  
  only with P-TEST One and Nine

- **Multiple Obstruction Test**  
  (only with P-TEST one)
**LEAK TEST**

The device to be tested is connected to the test port of the equipment and it's pressurized at the preset value. P-TEST checks the leak by measuring the pressure decay in the test time.

**OBSTRUCTION TEST**  (Pressure Monitor) only with P-TEST One and Nine

The equipment can detect obstructions by blowing air through the part to test by mean of the measure of the pressure at the inlet point. The equipment determine the condition of partial or total obstruction.

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>P-TEST Plus 500</th>
<th>P-TEST Plus 15</th>
<th>P-TEST Plus 60</th>
<th>P-TEST One</th>
<th>P-TEST Nine</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Range</strong></td>
<td><strong>Leak Test</strong></td>
<td><strong>Leak Test, multiple and single obstruction</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>of test</strong></td>
<td><strong>Type of tests</strong></td>
<td><strong>Power Supply</strong></td>
<td><strong>Electrical Protection</strong></td>
<td><strong>PLC interface</strong></td>
</tr>
<tr>
<td><strong>pressure</strong></td>
<td></td>
<td>110-230V, 50-60Hz, 40 VA</td>
<td>Electromagnetic interface filter and 2 1AT fuses</td>
<td>PNP, isolated, 10-30Vdc; 8-pin connector (start/stop/passed/failed)</td>
</tr>
<tr>
<td>10.0-500.0 hPa</td>
<td>30-1500 hPa</td>
<td>120-6000 hPa</td>
<td>50-1013 hPa</td>
<td>250-9000 hPa</td>
</tr>
<tr>
<td>(1.00-50.00 kPa</td>
<td>(3.00-150.00 kPa</td>
<td>(12.00-600.00 kPa</td>
<td>(38.760 mmHg</td>
<td>(190-6750 mmHg</td>
</tr>
<tr>
<td>7.5-375.0 mmHg</td>
<td>23-1125.0 mmHg</td>
<td>90-4500 mmHg</td>
<td>0.72-14.70 PSI</td>
<td>3.7-130.5 PSI</td>
</tr>
<tr>
<td>102-5098 mmH2O</td>
<td>310-15300 mmH2O</td>
<td>1220-61180 mmH2O</td>
<td>1.74-87.05 PSI</td>
<td></td>
</tr>
<tr>
<td>0.146-7.252 PSI</td>
<td>0.44-21.76 PSI</td>
<td></td>
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</tr>
</tbody>
</table>

**Accuracy**

- 0.25% of full scale
- 0.5% of full scale
- 2.5% of full scale

**Decay Resolution**

- 0.01 hPa
- 0.05 hPa
- 0.1 hPa
- 0.2 hPa

**Serial Ports**

USB

**Pressure Units**

- HPa(0mBar), kPa, mmHg, mmH2O, PSI
- HPa(~mBar), mmHg, PSI

**Memory**

- Up to 100 test programs, with date time and alfanumeric 16-digit code
- Up to 10 test programs

**Acoustic signal**

Different tones and programmable duration, for positive and negative results

**Protection**

Ip40

**Operating conditions**

Temperature from 10 to 40°, relative room humidity max. 80%

**International standards**


**Product code**

- P-TEST Plus 500: 98167
- P-TEST Plus 15: 98168
- P-TEST Plus 60: 98169
- P-TEST One: 98155
- P-TEST Nine: 98175
**SECURITY OF DATA & QUALITY SYSTEM**

Before its release to the market, quality and performances of the product needs to be accurately tested with our P-TEST, together with calibration and certification procedure performed with certified equipment you can comply with this requirement.

International Standards pay special attention to measuring, control and testing equipments. Metrological management of the testing equipment has become compulsory for all companies that manufacture medical devices. Each new P-TEST is provided with a Calibration Certificate with the values measured at seven points of the scale. By taking advantage of Tecnoideal Calibration Service, you can easily comply with International standard Regulations.

The date of the last calibration performed is stored in the memory and is automatically displayed each time the machine is switched on.

**VACUUM SYSTEMS FOR P-TEST**

This solution can be used when two tests have to be performed at the same time. The two testers can be of different scale or models including vacuum test (vacuum is externally generated).

**Vacuum Generator with P-TEST Vacuum**

The system can perform a test under vacuum and includes vacuum generator.

**6 WAY SEQUENCER FOR P-TEST**

This module works in combination with a leak tester and allows to switch automatically the test from one to another of the six products connected at the system ports. Connection and disconnection operations are in masked time.
HOLDER FOR BAGS

Testing of medical plastic bags requires the use of dedicated holders to contain the plastic deformation due to the test pressure.

Use of holders is also recommended:

- to reduce test volume
- to increase test pressure for easier identification of the leak

holders are available in two versions (different surface):

**Flat surface:** for testing simple bags. Surface contact is 100%; this is indicated to test the welding perimeter.

**Knurled surface:** designed to test bags in which a leak on the film can be easily detected because the air escape is not blocked. Surface contact is 25%.

ACCESSORIES | HOW TO ORDER

<table>
<thead>
<tr>
<th>Holder 300x400mm, flat surface</th>
<th>98085</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holder 300x400mm, knurled test surface</td>
<td>98172</td>
</tr>
<tr>
<td>Holder 400x500mm, flat test surface</td>
<td>98086</td>
</tr>
<tr>
<td>Holder 400x500mm, knurled test surface</td>
<td>98087</td>
</tr>
<tr>
<td>Foot Switch for P-TEST</td>
<td>T70239</td>
</tr>
<tr>
<td>Usb cable for P-TEST One/Plus</td>
<td>T19221</td>
</tr>
<tr>
<td>P-TEST One.sys (data extraction software)</td>
<td>T78076</td>
</tr>
<tr>
<td>P-TEST Plus.sys (data extraction software)</td>
<td>T78077</td>
</tr>
</tbody>
</table>

MARKETED IN U.S.A., CANADA, MEXICO, CARIBBEANS:

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