

Pneumatic High Pressure Test Pump User's Manual

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Warnings and cautions

- > Low pressure gauges can very easily be over pressured if not careful. Please take caution when applying pressures.
- Do NOT exceed the safety pressure limit (3500 psi / 235 Bar).
- This pump is not designed to be used in explosive or corrosive environments.
- Do not switch between pressure and vacuum mode under pressure. Make sure you have vented the pressure and opened the isolation valve before switching to vacuum.
- Over tightening connectors may cause damage.
- Pump should be stored in a dry/clean environment. Additel is not liable for any safety problems or damages caused by misuse or incorrect operation.
- Do NOT hold pressure above 1000 psi for more than 4 hours. All moisture and contaminants should be cleaned out of the liquid isolator before
- For the least risk in contamination of the reference gauge, the DUT should be installed to the pressure port which is closest to the vent valve.

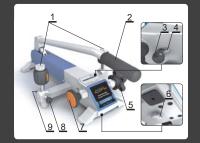
Specification

- > Pressure range: 95% vacuum to 3000 psi (200 bar)
 - (Based on an atmospheric pressure of 1 bar)
- **Temperature:** 0 to 50 °C / 32 to 122 F
- > Humidity: < 85%RH
- > Adjustment resolution: 0.001psi (0.1mbar, 10 Pa)
- > Overpressure Safety Limit: 3500 psi (235 bar)
- Pressure media: Air
- Weight: 14.4 lbs (6.5 kg) Remark: If local atmosphere pressure is 1 bar, the vacuum can reach to -0.95 bar; If local atmosphere pressure is P, the vacuum can reach to - 0.95P bar.

Air routine **ADT920**

3 2 5

Configuration & Size

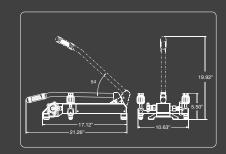


- 1 Quick connector

[Version number:1410V03]

- Luick connector
 Hand pump
 Pressure/vacuum (P/V) selector
 (Positive pressure: pull it out; Vacuum: push it in)
 Do NOT switch while unit is under any pressure
 Pressure/Vacuum lock
 Fine adjust handle
 (Turn Clockwise to increase pressure)
 Maintergene alegenie meeter

- Maintenance cleaning port
- Isolation valve (isolates the calibration volume from the hand pump and check valve)
- Vent valve (clockwise to close/counterclockwise to release pressure) 8 -(clockwise to 9 – Vent port



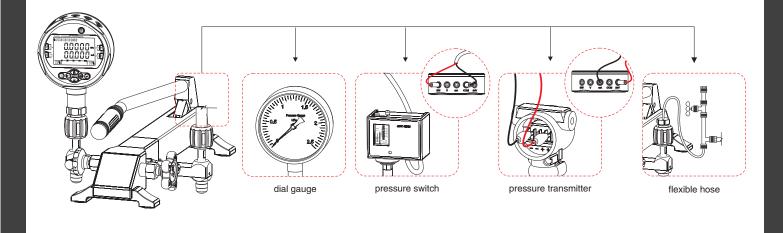
Troubleshooting

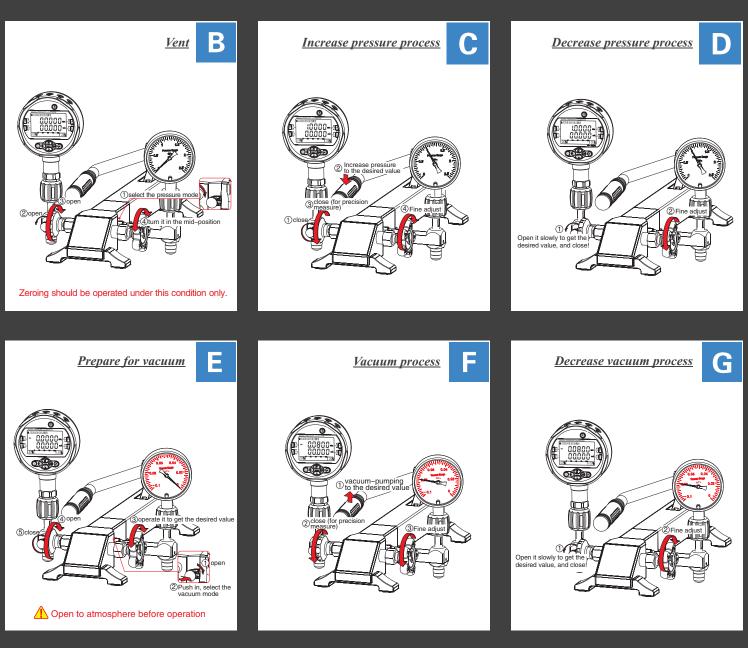
Problem	Cause	Solution
Hand pump will not generate pressure	The isolation valve is not open.	Open the isolation valve.
It is difficult to increase pressure	A. Vent valve is not closed.	Close the vent valve.
	B. The O-ring seal is loose or damaged	Replace O-ring seal.
	C. P/V selector is in the wrong position.	Pressure : Pull P/V selector out; Vacuum : Push the P/V select or in.
	D. Internal tubing is dirty.	Disassemble and clean (Request diagram).
Hard to use fine adjust	A. The isolation valve is not closed.	Close the isolation valve.
	B. The gauges are not tightened.	Tighten the reference gauge and / or the gauge under test.
	C. The O-ring seal is aged or frayed.	Replace O-ring seal.
	D. The connector type is mismatched to the gauge pressure port.	Use the correct adaptor.
	E. Air route is blocked/dirty.	Pressurize to high pressure and release pressure quickly via the vent valve.
Not easy to turn fittings	A. Too much force was previously applied.	Do not over tighten. Hand tight is sufficient.
	B. The threads have no lubrication.	Lubricate the thread.
	C. The connector type is mismatched to the gauge pressure port.	Use the correct adaptor.

O-Rings for pressure connector

P/N	Size	Connector
1611300004	4X1.5	M10X1, 1/8BSP, 1/8NPT
1611300220	6.5X3	M20X1.5, 1/2BSP, 1/2NPT
1611300024	6X2	M14X1.5, 1/4BSP, 1/4NPT, 3/8BSP

Connection





Remark: A: Additel has made a concerted effort to provide complete and current information for the proper use of the equipment. The product specifications and other information contained this manual are subject to change without notice. B: Above pictures are just for reference.