

Pump Valve Assembly Cleaning Instructions

Occasionally, the 700PTP-1 may not work properly due to contamination of the internal valve assembly. Use the following procedure to clean the valve assembly. If the procedure does not fix the problem, a repair kit (part number 2812587) may be ordered.

1. Using a small screwdriver, remove the 2 valve retention caps located on opposite sides of the pump below the pressure/vacuum switch.
2. Gently remove the spring and o-ring assembly. Take care when removing check valve as it contains several small components. See Figure 3.

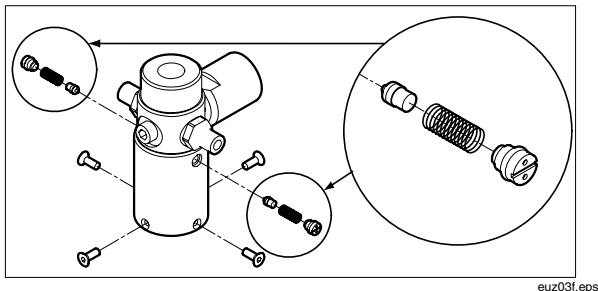


Figure 3. Cleaning the Valve Assembly

3. Set aside the valve assemblies and clean out the valve body using a cotton swab soaked in isopropyl alcohol.
4. Repeat the process several times using a new swab until clean.
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 isopropyl alcohol and inspect the o-rings closely for any damage or excessive wear. Replacements are included in the repair kit.
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 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.

Replacement Parts

Hose assembly, Fluke PN 2815714

Rebuild kit, Fluke PN 2812587

Bleed Valve Assembly (Needle) Fluke PN 2844329

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FLUKE®

Fluke-700PTP-1

Pneumatic Test Pump

Instruction Sheet

Introduction

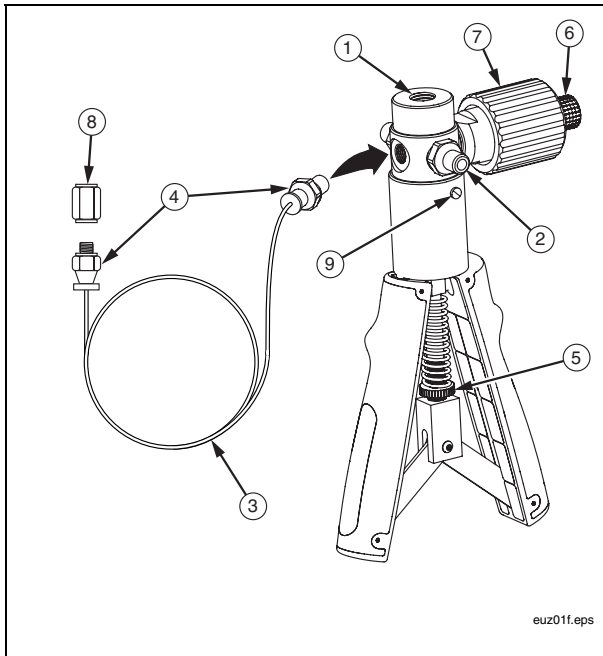
The Fluke-700PTP-1 Pneumatic Test Pump (hereafter called the "pump") is a handheld device that develops precise pressure and vacuum. The pump has the following specifications:

- Pressure to 40 bar (600 psi)
- Vacuum to -0.96 bar (-13.9 psi)
- Wetted materials: aluminum, silicon, neoprene, stainless steel, Buna-N
- Weight: 1.03 lb (467 g)
- Dimensions: length 8.7 in (220 mm), width 4.8 in (122 mm), depth 3.5 in (89 mm)

Box Contents

- 700PTP-1 Pneumatic Test Pump
- 1/4 in NPT male to 1/4 in BSP female
- 1 m hose
- (2) 1/8 in NPT male quick connects
- 1/8 NPT female to 1/4 in BSP female
- Seal Kit
- Instruction Sheet

Features



| No. | Item | Function |
|-----|--------------------------|--|
| ① | Master instrument port | Port for Fluke 700 Series Pressure Module |
| ② | Pressure / vacuum button | Push in from this side for vacuum, and from the other side for pressure. Use a small screwdriver. |
| ③ | Test pressure port hose | Flexible hose to pressure instrument under test |
| ④ | Quick Connects | 1/8 in NPT male |
| ⑤ | Maximum stroke limiter | To limit the pressure from the hand pump, tighten these nuts to shorten the compression stroke. |
| ⑥ | Pressure release valve | Unscrew to vent pressure from the pump. Tighten the valve to close the valve before applying pressure. |
| ⑦ | Fine adjustment knob | To precisely adjust the applied pressure |
| ⑧ | Adapter | 1/8 in NPT female to 1/4 in BSP female |
| ⑨ | (2) Clean out ports | See "Pump Valve Assembly Cleaning Instructions" |

Figure 1. Features

Using the Pump

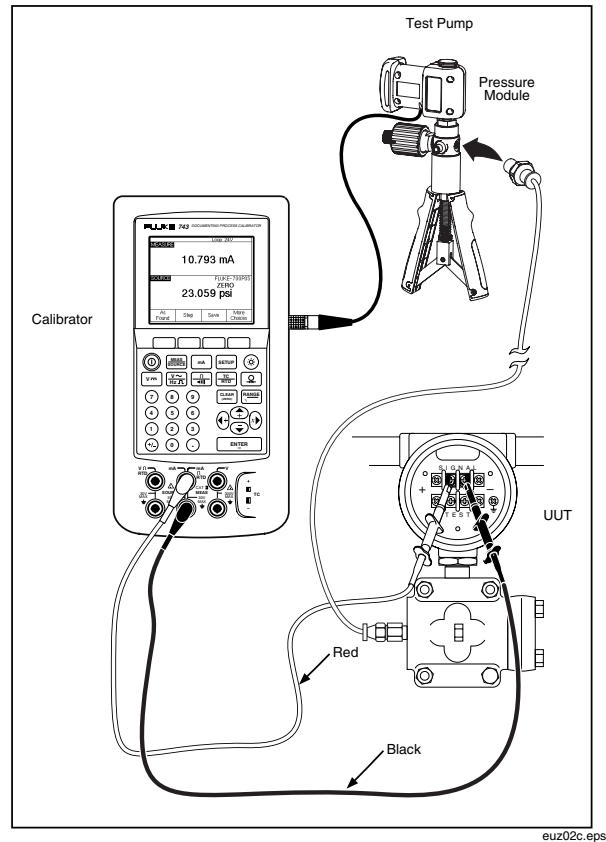


Figure 2. Using the Pump

⚠ Warning

To avoid a violent release of pressure, always depressurize the system slowly using the pressure release valve (item ⑥) before detaching any pressure line from the pump. Do not connect the pump to an external pressure source.

1. Attach a 700 Series Pressure Module (hereafter called "pressure module") to the master instrument port. Use Teflon tape or other sealing medium on all NPT thread connections to eliminate leakage.
2. Connect the test pressure port hose (item ③) to the pressure input of the pressure instrument under test.
3. Make sure the pressure/vacuum button (item ②) is in the desired position.
4. Unscrew the pressure release valve (item ⑥) to vent pressure from the pump.
5. Zero the pressure module. The zeroing procedure depends on which pressure module and calibrator is in use.
6. Turn the fine adjustment knob (item ⑦) to mid-range.
7. Tighten the pressure release valve (item ⑥). Do not over tighten.
8. To limit the maximum pressure that can be developed by the pump, tighten the maximum-stroke limiting adjustment nuts (item ⑤). This also reduces the amount of pressure increase per stroke.
9. To apply very low pressures, use the fine adjustment knob only (item ⑦).
10. Squeeze the handles together to apply incrementally higher pressure. For pressure over 7 bar (100 psi), use two hands.
11. Adjust the pressure using the fine adjustment knob (item ⑦).

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