Flow Testing: Apparatus Adjustment

Apparatus adjustment is a feature of the Posi3 USB software that allows you to make certain adjustments before or during a functional test. You may find it helpful to use this feature after pressure reducer or mask mounted regulator reassembly and before you run a full test. Apparatus adjustment can also be used to release the air saver switch so that the technician does not need to don the mask-mounted regulator (click here to see how).

Read on for information you need to know if you choose to use this feature.

**How do I access the apparatus adjustment feature?**

There are two ways to access the apparatus adjustment screen, depending on when you use the feature.

1. Apparatus adjustment is available before beginning a functional test. Follow these steps:
   a. Open Posi3 USB software.
   b. Click **Test** in the top navigation menu (see test menu screenshot below).
   c. Click **Apparatus Adjustment** (bottom of drop-down menu).
   d. Select the apparatus you are testing from the list of available breathing apparatus models.
   e. The apparatus adjustment window opens (see apparatus adjustment screenshot below).
2. Apparatus adjustment is also available during a functional test. Follow these steps:

   a. Begin a test in the Posi3 USB software. As the test progresses, a dialog box indicates the beginning of each test and then the end of each test with a pass or fail message (see dialog box example in screenshot below).

   ![Example Test Dialog Box]

   **EXAMPLE TEST DIALOG BOX**

   b. Click the **Apparatus Adjustment** button at the bottom of the dialog box (see example dialog box screenshot above).

   c. The apparatus adjustment window opens (see apparatus adjustment screenshot above).
What do the readings on the apparatus adjustment screen indicate?

The following readings are viewable in the apparatus adjustment window (see apparatus adjustment screenshot above).

- **Low Pressure Transducer** - indicates facepiece pressure
- **Medium Pressure Transducer** - shows pressure reducer output (for example, primary pressure or secondary pressure when bleeding the system down to transfer)
- **2nd Low Pressure Transducer** - for reference only
- **EP High Pressure Transducer** - indicates high pressure input to the Posi machine from high pressure air source
- **Temperature Transducer** - provides internal temperature of high pressure transducer (for reference only)

How do I use apparatus adjustment?

Apparatus adjustment is used mostly to read mask mounted regulator pressure and/or pressure reducer output to make adjustments to primary or secondary pressure.

**To read facepiece pressure:**

1. Pressurize system to full pressure (for example, if testing a 4.5 pressure reducer, pressurize to 4500 psi).
2. Click **Breathe** at the bottom of the window to "breathe" the system for stabilization before taking a reading.
3. Click **Stop Breathing**.
4. The facepiece pressure is the reading shown in the **Low Pressure Transducer** section.

**To read primary pressure:**

1. Pressurize system to full pressure (for example, if testing a 4.5 pressure reducer, pressurize to 4500 psi).
2. Click **Breathe** at the bottom of the window to "breathe" the system for stabilization before taking a reading.
3. Click **Stop Breathing**.
4. The primary pressure is the reading shown in the **Medium Pressure Transducer** section.

**To read secondary pressure:**

1. Pressurize system to full pressure (for example, if testing a 4.5 pressure reducer, pressurize to 4500 psi).
2. Bleed the system down very slowly to transfer. The Vibralert will alarm.
3. Close green knob immediately after transfer (when you hear the Vibralert alarm).
4. The secondary pressure is the reading now shown in the **Medium Pressure Transducer** section. *(Note: The red bar that displays in this section is always visible during a secondary reading and can be disregarded for secondary pressure readings.)*

**NOTE!** If additional adjustment is required after taking a reading, completely depressurize the system (to 0 PSI) before making any adjustments.

**To release mask mounted regulator air saver switch:**

1. In the apparatus adjustment window, click **Breathe** at the bottom of the window.
2. You will hear the air saver switch deactivate.
3. Click **Stop Breathing**.

Keep Reading ... Scott Plus Updates will offer more information on flow tests and adjustments in the coming weeks. To see earlier Scott Plus Updates on flow testing, go to [www.scottsafety.com/scottplus](http://www.scottsafety.com/scottplus).

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