



## **Plug Technologies, Inc.**

**Operating Instructions for 25' Mini-Triple™ Air Test System**

**Part # 525-25**



## Performing a Line Acceptance (sewer air test) with the 525-25, Mini-Triple Air Test System.

Before using this equipment, carefully read and understand the Plug Technologies, Inc. safety instructions.

**Danger!! -Stay out of the Danger Zone.**

Confined Space Entry: Follow all Federal, State, local and your company requirements for entry into confined spaces.

It is important that you safeguard the pressure gauges so they do not sustain any damage during storage, transport or use. If you are not sure that the gauges are reading accurately, replace the gauges or have them tested/certified by a local supplier.

Before you start testing, confirm that both the FatBoy Tester plug (frontside) and the downstream (backside) plugs you are using are rated for the pipe size you are testing and are rated for the required test pressure.

Install and inflate a pipe plug (blocking only) in the downstream manhole (backside). Inflate the plug to the required inflation pressure that can be found on the plugs frontside. Use a Fill Kit/Retrieval Rope that is long enough to allow you to exit the manhole before inflating the plug.

Connect the Mini-triple hose to the FatBoy Tester™. The hoses are color coded to make it easy to connect correctly. You may need to adapt (reduce) the ¾" port to allow it to connect to the ¼" blue hose on the Mini-Triple hose. Install the FatBoy Tester™ (frontside) in the pipe that is being tested. Ensure that the Tester plug is installed all the way inside of the pipe.

From outside of the manhole, turn the ball valve on the 0-60 psi gauge assembly (red hose) to the closed position to prevent the plug from being inflated. Connect your air source to the 0-60 psi gauge assembly (red hose) using the ¼" QD nipple. Slowly open the ball valve and start inflating the pipe plug. You will need to frequently turn the valve to the closed position to verify that the plug has not reached its required inflation pressure. **WARNING - Over pressurizing the FatBoy Tester™ plug can cause the plug to rupture or explode. WARNING—Under pressurizing the FatBoy Tester™ plug can cause the plug to be violently dislodged from the pipe.** Once you have reached the required inflation pressure, turn the valve to the closed position. The plug's inflation pressure must be monitored continuously during the entire test.

Locate the ¼" QD Nipple/Ball Valve Assembly (blue hose) and turn the ball valve to the closed position. Connect the air source to the ¼" QD nipple. Open the ball valve and this will start filling the test area between the two plugs. Make sure to closely monitor the test pressure as shown on the 0-15 psi test gauge that is attached to the yellow hose. While filling the test area, close the ball valve several times to allow the test pressure to stabilize. **WARNING - Over pressurizing the test area can cause the plugs to violently dislodge from the pipe.** Once the desired test pressure is reached, turn the valve to the closed position. Your pipe is now being tested.

Once the test is completed, exhaust the test area by first disconnecting the air source from the ¼" QD nipple (blue hose) and then turn the ¼" ball valve (blue hose) to the open position. The air in the test area will start to exhaust through the blue hose. When the test area is fully exhausted, the 0-15 psi test gauge (yellow hose) will read zero and you will no longer feel any air exhausting from the blue hose. Once the test area has completely exhausted, the FatBoy Tester™ plug can be deflated by turning the ball valve on the red hose assembly to the open position.

**Warning- deflating the plugs prior to completely exhausting the test area can cause the plugs to violently exit the pipe.** This will deflate the FatBoy Tester™ plug (frontside) and you can remove the plug from the manhole.

Deflate and remove the downstream (backside) plug and remove it from the pipe using the Fill Kit/Retrieval rope.

## Trouble Shooting

### **The test area will pressurize but quickly loses pressure and causes the test to fail.**

Your pipe may have a leak that is causing the test to fail.

Make sure the plugs being used will hold the amount of pressure your test requires.

Make sure the plugs being used are inflated to the recommended inflation pressure.

Make sure the plugs being used are positioned all the way inside the pipe.

### **I am pressurizing the test area but no pressure is registering on the test pressure gauge connected to the yellow hose.**

Make sure the yellow read back (return) hose is properly connected to the yellow return port of the FatBoy Tester plug.

Confirm the return port (yellow) on the backside of the Tester™ plug is open. Nothing should be obstructing the port.

Make sure the test pressure gauge is working properly.

Make sure there are no open drops that are connected to your pipe.

You may have a significant leak in the pipe that will not allow pressure to build up and register on the test pressure gauge.