

## A BBIQ Quiz

# Filling an HPA Storage Tank

Directions: Order the operations listed below by placing numbers on the spaces provided. The first two have been entered as an example. The correct sequence can be found in the lesson text at [www.battlebotsiq.com](http://www.battlebotsiq.com).

\_\_\_\_\_ Attach the Fill Station to the SCUBA tank. Tighten the attachment nut firmly.

\_\_\_\_\_ Close the on/off/bleed valve(s) on the HPA storage tank.

  2   Check the Valve and O-ring on the SCUBA Tank. Replace defective O-Rings. Do not use any tank with a damaged valve surface. Make sure the SCUBA tank valve is tightly closed.

\_\_\_\_\_ Attach the HPA storage tank to the SCUBA fill station. Check to be certain the HPA tank is securely attached to the Quick Connect fitting before going any further.

\_\_\_\_\_ Immediately before filling, check all gages, valves and fittings. Note the readings on the gages. The Fill Station Gage should read ZERO. Be certain the HPA on/off/bleed valve is closed.

\_\_\_\_\_ Inspect the HPA Storage Tank for visible damage.

\_\_\_\_\_ S-L-O-W-L-Y crack the SCUBA tank valve open.. Check to see that the gages on the fill station and on the tank and regulator system are SLOWLY moving. Listen and watch for signs of leakage.

\_\_\_\_\_ Watch the gages on the HPA tank climb. Fill at a rate that does not exceed an average rate of 50psi/second. An empty tank should take nearly a minute to fill. Feel the tank. It should never be allowed to fill fast enough to appreciably warm the tank. When the gages stop climbing, allow time for the system pressures to equalize.

  1   Gather the necessary equipment and put on safety glasses.

\_\_\_\_\_ Hold the HPA tank securely in one hand. With the other hand, remove the HPA tank from the fill station by sliding the spring loaded female end of the Quick Connect backward.

\_\_\_\_\_ Support the HPA tank firmly with one hand while grasping the SCUBA tank valve handle with the other. Never let the weight of the HPA tank and regulator be supported only by the quick connect fitting. This could rupture the fitting and cause grievous injury. Always support the HPA Tank.

\_\_\_\_\_ Open the Fill Station Bleed Valve. This will depressurize the fill station and HPA tank coupling.

\_\_\_\_\_ Close the SCUBA tank valve. The fill station and tank connection will remain pressurized.