

Technical Bulletin #4 Low Air Pressure in Ink Reservoirs / Pots

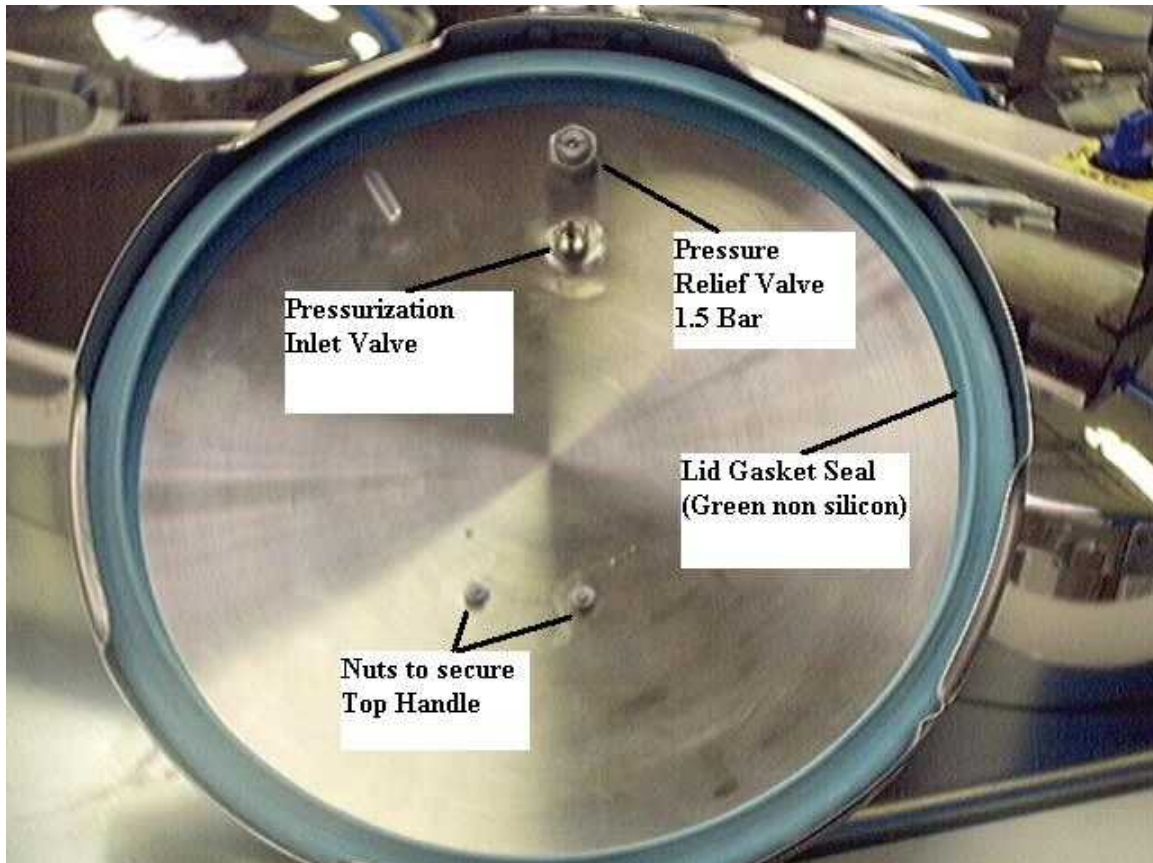
Before switching on the PC or IDS machine, you need to make sure that at least four (4) of the Ink reservoirs (pots) initially have their air valves turned OFF on the lids. This procedure is to ensure that the IDS pressurizes equally and is able to quickly achieve normal working pressure. After the initial IDS pressurization, turn the remaining 4 blue air valves to the ON position and check for any air minor leaks.

The IDS10 Ink reservoirs are designed to work at a low air pressure. The reservoirs can withstand a working air pressure of 1Bar +/- 0.5.

All of the reservoir pressures are regulated via a secondary air regulator, this regulator is located inside the right hand side cabinet of the IDS and positioned adjacent to the Primary air regulator. If the reservoir pressure is increased to above the safe working level of 1Bar +/- 0.5 for safety reasons all of the reservoir lids are fitted with a pressure relief valve. This valve will relieve the reservoir pressure when the inner air pressure exceeds 1.5Bar. For more information regarding the settings for the Primary and Secondary air regulators please refer to the IDS10 Operation Manual and Installation Instructions.

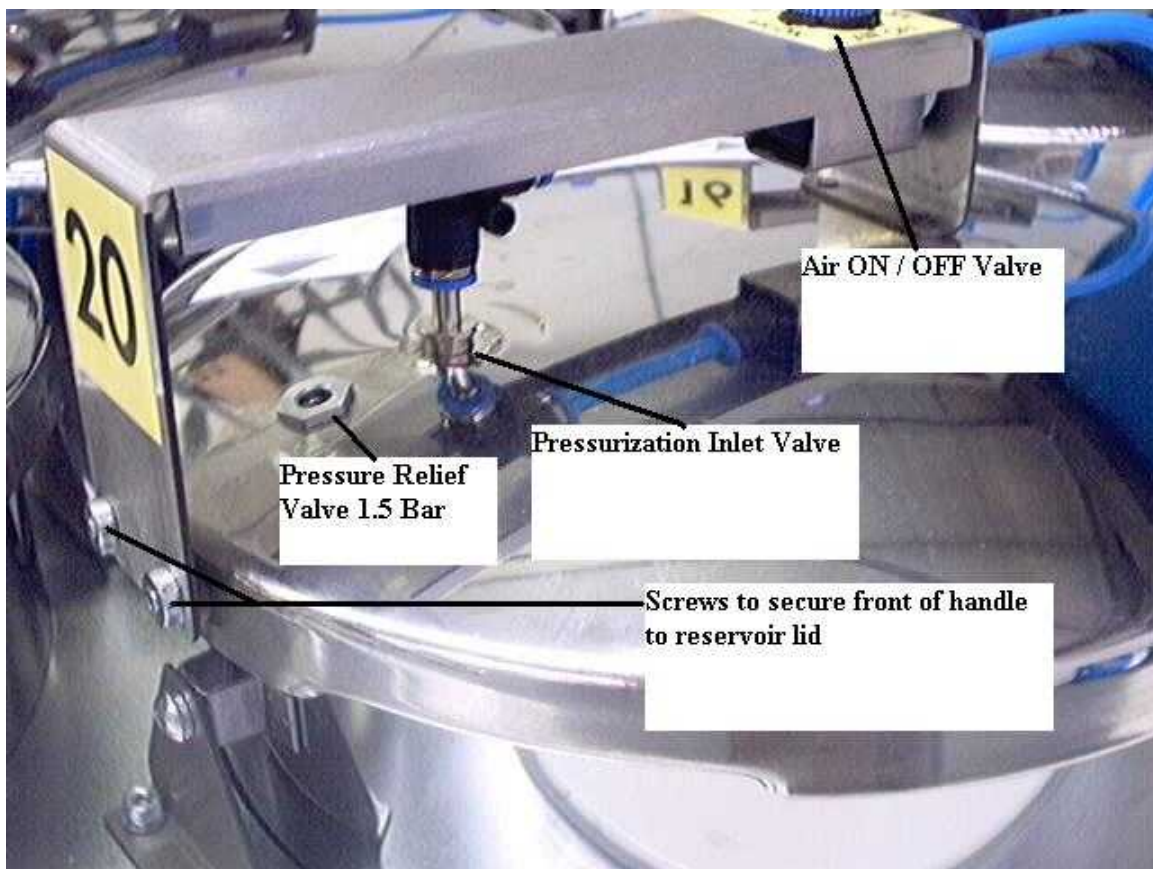
NOTE: It is NOT possible to INDIVIDUALLY regulate reservoir pressures on an IDS 10

Figure 1. Shows the underside of the IDS 10 reservoir lid



Ensure that the GREEN gasket seal is NOT coated in Silicon Grease and is correctly fitted to the underside lip/edge of the reservoir lid before fitting to the top of the reservoir. However if the IDS 10 IS fitted with WHITE gasket seals then Silicon Grease MUST be used to ensure a good airtight seal, before correctly fitting to gasket to the underside lip/edge of the reservoir lid and then fit to the top of the reservoir.

Figure 2. Shows the top of the reservoir lid and handle



I can still hear some air leaking from around the reservoir lid, but I know I have a good gasket seal?

Ensure that there is NO air escaping from the small BLUE pipe that connects the air from the Air ON/OFF Valve to the Pressurization Inlet Valve. The BLUE connection hose should have straight clean-cut ends, and requires a snug push fit into both connectors.

Check that the two screws that secure the lid handle to the top of the reservoir lid are tight. The heads of the screws can be found by first removing the gasket seal on the underside of the reservoir lid, (see fig 1.) the screws can then be tightened using a screwdriver.

If you are operating a High Pressure IDS (Example Model HP20) then check that the Rubber Gasket Seal is clean and free of any Ink using a clean dry cloth. Ensure that the Rubber Gasket Seal locates firmly and uniformly around the outer edge as shown below, before replacing the lid.



WARNING: When using a reservoir with a working pressure of over 4Bar, extreme caution must be taken to ensure that the gasket seal is in good condition, and fits firmly and uniformly around the outer edge of the lid. If not, when the reservoir reaches its optimal working pressure in some cases this can cause the Rubber Gasket Seal to be squeezed out from between the lid and the top of the reservoir orifice. You may experience a loud BANG and the reservoir pressure will reduce, leaking air will be heard as the IDS tries to regain the optimal reservoir working pressure.

