BLUESPARK	**MAINTENANCE INSTRUCTION** **INI00XXA_PWX212_Refilling**	

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PURPOSE OF THE DOCUMENT

The purpose of this document is to describe how to properly refill the WASP 212 PWX.

RELEASE HISTORY

Revision & date	Release description
Version A dated on 05/01/2015	First edition

SUMMARY

1 SAFETY

Electrical Hazard

Do not try to perform maintenance on any section when it is mechanically or electrically connected to another section or power source.

Mechanical Hazard

The asset is an under pressure equipment. Respect safety procedures when using nitrogen tank and pressure adjustment tool.

2 MAINTENANCE - CURRENT VERSION

This instruction applies to all PWX212PROTO in use.

2.1 Requirements

2.1.1 Tools

2.1.1.1 Electrical tools

- Thermometer with external probe
- Pressure tool SGA 212 IA9450001000-A-
- Position Tool Valve SG 212 IA9490006000-A-

2.1.1.2 Mechanical tools

- Chain vise (installed on a work place)
- Tool stand

2.1.2 Consumable products

- Nitrogen tank UN1066 + pressure regulator 4 bars

2.2 Pressure adjustment

The pressure adjustment must be done in between 18 and 24°C to allow accurate measurements.
Proceed with testing only when the switching voltage is outside of the specified range.
The asset must be filled with neutral gas to work properly.
Secure the asset to a work surface using a chain vise or appropriate method

- Install the bell of the pressure tool IA9450001000-A- on the coupler as per Figure 1.
- Turn on the manometer as per Figure 2.

Figure 1

Figure 2

- Connect the nitrogen tank to the tool, open briefly the valve to drain air from the tubes
- The valve of the pressure tool must be in the closed position (Figure 3). Then push and lock the tool in the bell as per Figure 3 & Figure 4.

Figure 3

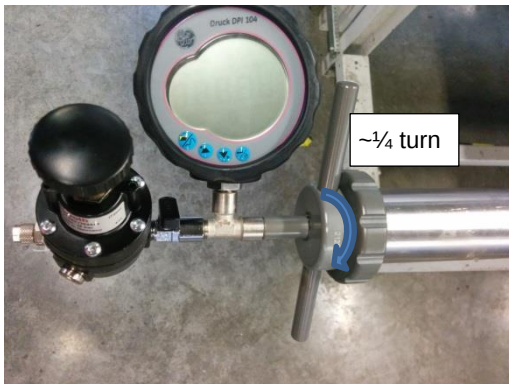


Figure 4

- Connecting the pressure tool indeed a loss of pressure of ~10 mbar (gas has to fill the tool). This means the pressure inside the asset was 10 mbar higher.
- The pressure should be in the range **1600mbar ±10mbar**
  If the pressure needs to be adjusted, follow the next steps.

- Open the valve and adjust the pressure with the regulator as per Figure 5.

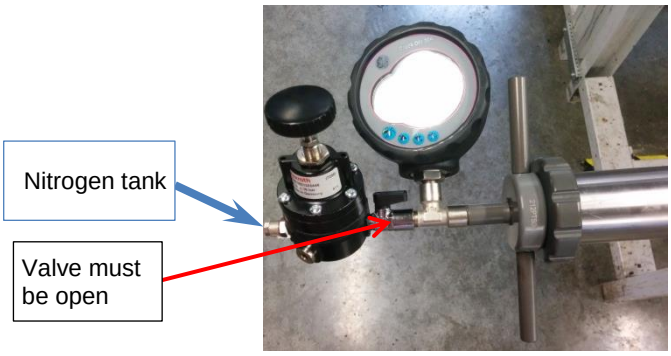


Figure 5

- Wait 10 seconds for pressure stabilization.
- If the pressure is still at the target, remove the tool as per Figure 6 & Figure 7.

Figure 6

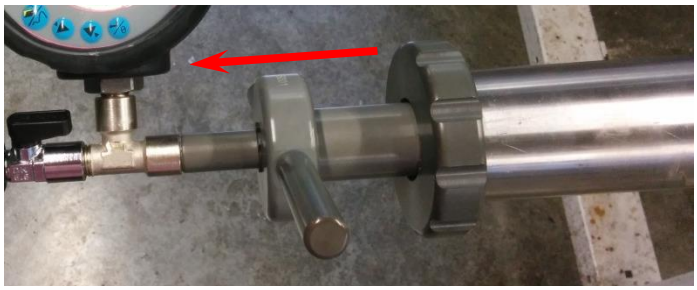
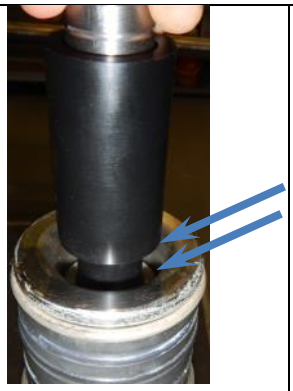


Figure 7

- Close the valve
- Remove the bell from the coupler with a spanner wrench as per Figure 8.

Figure 8

- Don't forget to close the nitrogen tank.

			
Place the asset vertically and insert the valve position tool valve SG 212 IA9490006000-A- into the coupler. The tool must lie on the insulator	Both grooves on the axis must be visible: the valve is correctly close.	Zero or one groove is visible: the valve is not close. The asset must be returned to factory.	Do NOT push on the axis to open the valve!